Appendix H1

Phase I Environmental Site Assessment

Prepared for

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Phase I Environmental Site Assessment

Parcels 644-011-06-00 & 644-020-11-00

Olympic Parkway

Chula Vista, California 91911

Prepared by

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Geosyntec Project Number SC1029

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EXECUTIVE SUMMARY

This Executive Summary presents the results of the Phase I Environmental Site Assessment (ESA) performed by Geosyntec Consultants (Geosyntec) for an approximately 136-acre property located on Olympic Parkway in Chula Vista, California. The subject property includes two contiguous parcels currently identified by the San Diego County Assessor's Office as parcel nos. 644-011-06-00 & 644-020-11-00 (the Site; Figures 1 and 2). This Phase I ESA was prepared in accordance with Geosyntec's 20 December 2019 scope of work. Geosyntec understands this Phase I ESA may be used to identify potential Recognized Environmental Conditions (RECs) associated with the property.

The objective of performing this Phase I ESA in accordance with ASTM International Standard E 1527-13 was to identify, to the extent feasible, "Recognized Environmental Conditions" (RECs) at the Site as the "REC" term is defined by ASTM E 1527-13. This REC definition eliminates from consideration several conditions that could fall under the general definition of "environmental issues" and focuses on known or potential releases of hazardous substances and petroleum products.

FINDINGS AND OPINIONS

The Site is situated on a hillside and slopes steeply from the south down to a permitted wetland along the northern boundary of the Site, parallel to Olympic Parkway. This wetland drains through a series of culverts and discharges from the northwest corner of the Site. Several panels of concrete are near the culverts and appear to assist with surface water drainage. There are no buildings on the Site, and several footpaths traverse the Site. Seven gas probes, three vadose monitoring wells, and two monitoring wells currently exist on the Site (Figure 2). Monuments and vaults labeled "CP Test" and believed to be associated with a recycled water pipeline which traverses the Site were also observed. The Site is bounded by chain-link fencing along the southern perimeter, which partially extends along the eastern border. Several chain-link gates are located at vehicle access locations from Olympic Parkway on the north side of the Site.

The Site has been historically vacant and undeveloped. The Site remains vacant and undeveloped, and it is Geosyntec's understanding that the planned future Site use includes development of a portion of the Site for residential use.

Properties in the Site vicinity have historically been used for bentonite (clay) mining, landfilling, and other industrial, commercial, and residential purposes. The Site is bounded to the north by Olympic Parkway; directly north of this is an undeveloped hillside, followed by residential subdivisions. Portions of the Otay Annex Sanitary Landfill adjoin the property to the southeast, and the property directly east of the Site is vacant and undeveloped. The Otay Annex Sanitary Landfill, also known as the Otay Class III landfill, extends west and also adjoins the Site to the south and surrounds the adjoining Otay Class I Landfill. Residential developments are situated southwest and directly west of the Site, and east and south of the Otay Class III landfill. Both the Class I and Class III landfills have groundwater monitoring networks which are monitored semiannually under orders issued by the San Diego Regional Water Quality Control Board.

Groundwater flow at both landfills is generally to the south-southwest away from the Site, and there are no indications of groundwater impacts beneath the site attributable to the two adjoining landfills. The Class III landfill is equipped with a landfill gas control system (LFGCS) and a perimeter probe monitoring network which is routinely monitored under the direction of the County of San Diego Local Enforcement Agency. Methane has not been detected above 1% by volume at the perimeter probes closest to the Site.

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Site which encompasses approximately 136 acres located on Olympic Parkway in Chula Vista, California. The Phase I ESA performed by Geosyntec revealed no evidence of recognized environmental conditions in connection with the property, except for the following:

- Historical investigations performed in the 1990s to assess potential impacts to the Site from the adjoining landfill properties identified subsurface methane which had migrated beneath the Site from the Class III landfill at concentrations up to 3,300 parts per million (ppm) methane, which is more than an order of magnitude lower than the lower explosive limit (LEL) of methane (50,000 ppm, or 5% by volume). To address the absence of recent soil vapor data for the site, a limited soil vapor investigation was conducted at the Site in January 2020 to evaluate current onsite subsurface soil vapor conditions and potential subsurface impacts attributable to the adjoining Otay Class III landfill. The soil vapor investigation documented methane was not detected in the samples, indicating that the LFGCS is effectively controlling the migration of methane from the adjoining Class III landfill. Low-level concentrations of VOCs were detected in soil vapor samples collected at the site, including four analytes detected in one or more samples at concentrations at concentrations above their respective Tier 1 ESLs or EPA RSLs for a residential site scenario. However, none of these analyte concentrations exceeded calculated DTSC-SLs for future residential construction. Therefore, with the understanding that the adjoining Class III landfill owner/operator will continue to operate the LFGCS in accordance with Title 27 requirements, future earth-moving activities in preparation for site development and construction will likely result in dissipation of residual VOC concentrations in shallow soil vapor, and future structures will be constructed using modern building practices with competent concrete slabs, there is no apparent unacceptable risk to future residential site occupants due to methane and/or VOC-impacted soil vapor.

De Minimis Conditions

De minimis conditions are environmental conditions which generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of the appropriate governmental agencies. Conditions determined to be *de minimis* are not RECs. *De minimis* conditions identified at the Site include debris and several pieces of discarded furniture, including a couch and a mattress, observed at the Site.

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1 INTRODUCTION

This report documents the results of the Phase I Environmental Site Assessment (ESA) performed by Geosyntec Consultants (Geosyntec) for an approximately 136-acre undeveloped property located on Olympic Parkway in Chula Vista, California, including two contiguous parcels currently identified by the San Diego County Assessor's Office as parcel nos. 644-011-06-00 & 644-020-11-00 (the Site). This Phase I ESA was prepared for Sheppard Mullin, Richter & Hampton LLP (Sheppard Mullin) on behalf of Lennar Home of California (Lennar) in accordance with Geosyntec's 20 December 2019 scope of work. This report incorporates, by reference, the ASTM International (ASTM) Standard E 1527-13, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process." Exceptions and limitations are provided in Section 1.5 of this report. Geosyntec performed the Phase I ESA for the sole use of its client, Sheppard Mullin and Lennar, as described in Section 1.6 of this report.

1.1 Purpose

The purpose of this Phase I ESA was to identify, to the extent feasible, "Recognized Environmental Conditions[1]" (RECs) at the Site as the term "REC" is defined by ASTM E 1527-13. This REC definition eliminates from consideration several conditions that could fall under the general definition of "environmental issues" and focuses on known or potential releases of hazardous substances and petroleum products. Geosyntec understands this Phase I ESA may be used to help identify potential environmental liabilities associated with the property.

1.2 Site Description

The Site is located southeast of the intersection of Olympic Parkway and Brandywine Avenue within a mixed use area (Figures 1 and 2). The Site is comprised of approximately 136.15 acres on two contiguous parcels of undeveloped land and is owned by ACI Sunbow.

1.2.1 Site Characteristics

The Site is currently accessed from the northern boundary along Olympic Parkway. There are no structures on the Site, and the northern and western perimeters are intermittently delineated by landscaping and some fencing and gates. The eastern border is partially delineated by chain-link fencing between the Site and the adjoining Otay Sanitary Landfill Annex, and is fully delineated to the south by fencing. The Site is heavily vegetated with a topographic gradient to the north, sloping down to a stream and low-lying area that appears to be a continuation of the Poggi Canyon Stream.

[1] As defined by ASTM E 1527-13, a Recognized Environmental Condition is: "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to 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. *De minimis* conditions are not recognized environmental conditions."

1.2.2 Surrounding Land Uses

A summary of pertinent nearby land uses is provided below:

- North: Olympic Parkway, followed by vacant, undeveloped land and residential developments
- South: Residences, vacant vegetated land, the Otay Annex Sanitary Landfill, and the Otay Class 1 Landfill
- East: Vacant land and the Otay Annex Sanitary Landfill.
- West: Residential developments and Brandywine Avenue

1.3 Geologic and Hydrogeologic Summary

The Site is located in the Peninsular Range geomorphic province (Google Maps: California Geomorphic Province Areas). The Site is directly underlain by the San Diego Formation, followed by the Otay Formation and the Mission Valley (Sweetwater) Formation (Geosyntec, 2006). The San Diego Formation consists of Pliocene-aged conglomerate and marine sandstone. According to the Updated Soils and Geologic Investigation for the Site and its addendum, bentonitic clay and claystone are encountered in shallow soils at the Site (GeoCon, 1999). The Otay Formation consists of marine or shallow bay deposits of mudstone, silt, sand, thin gravel layers, and volcanic ash; this volcanic ash has been altered to bentonite clay in some areas, including the footprint of the landfill to the south. Some areas of this formation have been disturbed by soft sediment deformation (slumping). The Mission Valley/Sweetwater Formation consists of clay and claystone with sand, silt, and gravel beds. The topographic gradient of the Site is to the north, with large native hills in the southern portion sloping down to the streambed along the northern perimeter. The elevation at the Site ranges from approximately 220 to 450 feet above Mean Sea Level (AMSL; Google Earth).

The Site is located in the Otay Hydrologic Area of the Otay Hydrologic Unit (RWQCB, 1998). At the nearby Otay Class I Landfill to the south, groundwater levels are routinely gauged; according to the most recent groundwater monitoring report for the Otay Class I landfill performed in July 2019, depth to groundwater in the perched zone ranged from 79.09 feet below ground surface (ft bgs) to 168.54 ft bgs and flowed to the south in the northern portion of the landfill (adjacent to the Site to the south) and to the north-northeast in the central and southern portion of the landfill. Groundwater in the intermediate aquifer was encountered from 232.89 ft bgs to 313.02 bgs and flowed to the south-southwest. Recent increased groundwater elevations in a perched zone well in the southern portion of the landfill resulted in a reversal of the perched groundwater flow from southwesterly to north-northeasterly. Groundwater in the intermediate aquifer flow shifted to the southwest due to groundwater increasing in a well along the eastern boundary; previously, groundwater flow has been to the west (Geosyntec, 2019).

1.4 Scope of Services

On 20 December 2019, Geosyntec was authorized by Mr. David Shepherd of Lennar to complete a Phase I ESA of the Site. The scope of services included the following:

- Searching standard local, state, and federal environmental record sources within recommended ASTM search distances;
- Reviewing available physiographic information including topographic, geologic, and hydrogeologic information;
- Reviewing historical aerial photographs;
- Reviewing historical fire insurance maps;
- Performing a Site reconnaissance;
- Conducting an interview with the client or client representative; and
- Documenting the procedures, findings, opinions, and conclusions of the Phase I ESA in this report.

This work was completed in general accordance with ASTM Practice E 1527-13 with the limitations and exceptions described in Section 1.5 of this report. For the purposes of this Phase I ESA report, Sheppard Mullin and Lennar represents the "user," defined as "the party seeking to use Practice E 1527-13 to complete an *environmental site assessment* of the *property*…"

This ESA report was prepared by Ms. Rosemary Propst and reviewed by Mr. Veryl Wittig, PG, CHG ("environmental professional," as defined under the ASTM Practice E 1527-13) of Geosyntec, in accordance with the peer review policy of the firm. Mr. Wittig's professional qualifications are presented in Appendix A.

1.5 Limitations and Exceptions

This Phase I ESA was performed according to the agreed upon scope of work with Sheppard Mullin and Lennar. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with the Site, and recognizes reasonable limits of time and cost. Not every property warrants the same level of assessment. Consistent with good commercial or customary practice, the appropriate level of assessment was guided by the type of property subject to assessment and the information developed in the course of the inquiry. A balance between the competing goals of limiting cost and time demands and the reduction of uncertainty about unknown conditions resulting from additional information was identified during the Phase I ESA.

Additional services considered optional by ASTM E 1527-13, such as asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, biological agents, and mold were not included in the scope of work.

The findings and conclusions presented in this Phase I ESA are the result of professional interpretation of the information collected at the time of this study. This Phase I ESA was not an exhaustive search of all available records, nor does it include detailed assessment of all Phase I ESA findings. Geosyntec cannot "certify" or guarantee that any property is free of environmental impairment; no warranties regarding the environmental quality of the property are expressed or implied.

This Phase I ESA did not include the sampling of rock, groundwater, surface water, or other onsite substances or materials. Therefore, it is not possible to exhaustively identify every hazardous substance or petroleum product in the environments associated with the property.

The findings of this report, to the best of our knowledge, are valid as of the date of this work. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate regulations and standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

Specified information contained in this report has been obtained from publicly available sources and other secondary sources of information. Although care has been taken in reviewing the information when compiling it, Geosyntec disclaims any and all liability for any errors, omissions, or inaccuracies of the third parties in such information and data.

The work was performed using the degree of care and skill ordinarily exercised under similar circumstances by environmental consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the findings, opinions, conclusions, and recommendations included in this report.

1.6 User Reliance

This Phase I ESA report has been prepared solely for the benefit of Sheppard Mullin and Lennar. Geosyntec has issued the Phase I ESA report to its client and grants Sheppard Mullin and Lennar the right to rely on the report contents. Except as specifically set forth in the Agreement between Geosyntec, Sheppard Mullin and Lennar to perform this work, no third party except Sheppard Mullin and Lennar shall have the right to rely on Geosyntec's opinions rendered in connection with the services without Sheppard Mullin and Lennar's approval and Geosyntec's written consent, which may be conditioned on the third party's agreement to be bound to acceptable conditions and limitations.

2 USER PROVIDED INFORMATION

In accordance with ASTM E 1527-13, Geosyntec requested that the user of the Phase I ESA provide information that would assist in identifying the possibility of RECs in connection with the subject property, including but not limited to:

- Reviewing title and judicial records for environmental liens or activity and use limitations recorded against the subject property;
- Communicating specialized knowledge or experience that is material to RECs in connection with the subject property;
- Providing information about previous ownership or uses of the property;
- Providing information on a significantly lower purchase price, if applicable; and
- Designating personnel who are the most knowledgeable at the Site that will be interviewed by Geosyntec personnel.

Pertinent Site documents, including those provided by the user, are provided in Appendix B.

2.1 Title Records

The user provided Title Records for the Site, which are included in Appendix B.

2.2 Environmental Liens

The user is not aware of any environmental liens against the property.

2.3 Specialized Knowledge

The user provided knowledge regarding historical environmental investigations performed at the Site related to the Site's proximity to the adjacent landfill.

2.4 Commonly Known or Reasonably Ascertainable Information

The user did not provide commonly known or reasonably ascertainable information pertaining to RECs in connection with the property.

2.5 Valuation Reduction for Environmental Issues

The user indicated that the anticipated purchase price reasonably reflects the fair market value.

2.6 Owner, Property Manager, and Occupant Information

The user provided contact information for Mr. Sam Holty and Mr. Bill Hamlin, representatives for the current property owner, ACI Sunbow. A summary of Geosyntec's interview with Mr. Holty is provided in Section 4.2 of this report.

2.7 Reason for Performing Phase I ESA

Geosyntec understands that Sheppard Mullin and Lennar has requested this Phase I ESA to identify RECs associated with the property for consideration during potential acquisition of the Site for the purpose of developing the Site for residential purposes.

3 RECORDS REVIEW

3.1 General

The following sections present the results of the environmental database search and review of reasonably ascertainable historical aerial photographs, topographic maps, fire insurance maps, and historical city business directories.

3.2 Database Search Report

A database search report was obtained from Environmental Data Resources, Inc. (EDR) (Appendix C). The report documents findings of various federal, state, and local regulatory database searches regarding properties with known or suspected releases of hazardous materials or petroleum hydrocarbons. The searches were performed according to ASTM standards for Phase I ESA database searches. A list and description of the databases searched are included within the EDR report.

3.2.1 Site

The Site was not identified by EDR; however, several adjoining and nearby properties were identified by EDR and are discussed below.

3.2.2 Adjoining Properties

Two adjoining properties were identified in the databases searched by EDR. A summary of each listing is provided below:

- Hernandez Custom Paints at 599 Portsmouth Drive, approximately 164 feet west of the Site, is listed within the Resource Conservation and Recovery Act (RCRA) small-quantity generator (SQG) database for handling ignitable waste. No violations were noted for this facility, and based on the benign nature of the listing, it is unlikely this property has adversely affected the Site.

- Otay Sanitary Landfill (and related names) and Appropriate Technologies II at 1700 Maxwell Road are listed under the following databases: Envirostor, California Solid Waste Facility/Landfill (SWF/LF), California Land Disposal Sites (LDS), California Enforcement (ENF), California Financial Assurance, California National Pollutant Discharge Elimination System (NPDES), California Integrated Water Quality System (CIWQS), and California Environmental Reporting System (CERS).

  This property is directly south of the Site and consists of the closed Otay Class I Landfill adjacent to the active Otay Sanitary Annex Class landfill (Class III). The Class III landfill is owned by Republic Services and accepts nonhazardous wastes including construction and demolition wastes, green waste (compost), household trash, metals, and tires. The limited GeoTracker database listing within EDR for the Class III landfill indicates potential contaminants of concern including solvent or non-petroleum hydrocarbons, trichloroethene (TCE), nitrate, other inorganic [materials] / salt, lead, methyl tert-butyl

ether (MTBE)/tert-butyl alcohol (TBA)/other fuel oxygenates, other petroleum, and total petroleum hydrocarbons (TPH). The landfill is currently operating under waste discharge requirements issued by the San Diego Regional Water Quality Control Board. The landfill received a notice of violation (NOV) for failure to submit information related to management of low-level radioactive wastes which were discovered at the Class III landfill; this information was to be submitted in response to an Executive Order implementing a moratorium on the disposal of low-level radioactive wastes at Class III landfills. The Class III landfill also received an investigative order and NOV requesting information related to excess leachate production and slope stability evaluation near an area of leachate ponding near the southeast corner of the landfill. The landfill has also received multiple stormwater-related violations of the NPDES permit, violation of water quality protection standards for a release of volatile organic compounds (VOCs) to groundwater, and other minor violations. Additional information for the Class III landfill was found on the State Water Resources Control Board GeoTracker database and is further discussed in Section 3.6.

The Otay Class I Landfill is listed within the California Waste Management Unit Database/Solid Waste Assessment Testing (WMUDS/SWAT) and Historical Cortese databases. This landfill accepted hazardous wastes per its classification as Class I; however, no additional information was discernible within the EDR report as the listing was commingled with the Omar Rendering Company facility. However, additional information reviewed on GeoTracker is discussed in Section 3.6.

Appropriate Technologies is also listed at 1700 Maxwell Road, and is listed as a hazardous waste facility that accepted hazardous and non-hazardous liquid sludge and slurry wastes in bulk, hazardous liquid/solid waste in drums or other approved containers, as well as polychlorinated biphenyls (PCBs) and explosive and radioactive materials. The listing indicates this facility is surrounded by the Otay Class I Landfill and is zoned for open space and park development. No disposal is reported onsite, and all storage is reported to have been temporary. Based on the EDR listing, it appears that a washout pit and unlined effluent pipes also existed at or near this facility, which were closed under the Department of Toxic Substances Control (DTSC) in 1995 after a remedial feasibility investigation (RFI) concluded that there is no further investigation necessary for the washout pit and pipes, and the facility was closed under the DTSC in 1996. Based on the "No Further Action" (NFA) designation granted by the DTSC, the facility's former location hydraulically downgradient to the Site, and its use as a storage facility with no disposal reported, this location is unlikely to have adversely impacted the Site.

BKK Corporation, including listings for Ecology Auto Parts, is also listed at 1700 Maxwell Road. BKK is listed as having had three underground storage tanks (USTs) for waste storage. Review of the permits shows two "USTs" were waste storage lagoons constructed with 6 inch concrete and one 13,500-gallon sump. Materials placed in the sump were not specified. Storage, bulking, and/or transfer off-site and chemical use are

also listed in EDR and it appears BKK treated waste being disposed of at the Class I landfill. Additional information related to the BKK Corporation presence at the landfill was found during online database search and is discussed in Section 3.6.

Within the BKK listing is Ecology Auto Parts; this facility was actually located at 850 and 825 Energy Way, approximately 0.5 miles south of the Site and south of the landfill facility. Ecology Auto Parts is listed as a hazardous waste generator with various minor housekeeping- and training-related violations. Additional information for Ecology Auto Parts was found on GeoTracker and is discussed in Section 3.6.

3.2.3 Properties within ½-Mile of the Site

Several nearby properties within one half-mile of the Site were listed under one or more databases; notable listings are below.

- A&W smelter and refinery (A&W) on Silver Queen Road is reportedly located approximately 0.4 miles southeast of the Site and is listed within the EDR Potentially Responsible Party (PRP), Superfund Enterprise Management System (SEMS), lead smelters, and California HAZNET databases. The actual refinery is not located near the Site; however, A & W attempted to send seven truckloads across the Mexico border to dispose of unusable ore containing lead and considered hazardous waste (U.S. District Court, 1997). These trucks were detained and temporarily impounded at the Appropriate Technologies II facility by U.S. Customs. A & W did not secure transportation in a timely manner, and the unusable ore was transported to a federally-approved treatment, storage, and disposal facility. Soil discussed in this listing was not present at the Site and therefore is not likely to have adversely affected the Site.

3.2.4 Properties within One Mile of the Site

Four properties within one mile of the Site were identified in several database searched by EDR. These properties are listed below.

- 1886 Auto Park Place, approximately 0.7 miles southeast of the Site is listed as Omar Rendering Facility, and was identified under the historical Cortese, Deed, Land Disposal Site, Cortese, Enforcement, and other databases related to handling or storage of hazardous materials. This facility reportedly utilized evaporation ponds to treat hazardous wastes from 1959 to 1978. The ponds containing evaporated materials were excavated and disposed of offsite, and soil from beneath the pond footprints was disposed of in a lined cell on the Site. Groundwater monitoring and cell cap maintenance are ongoing. Additional information was found on GeoTracker and is discussed in Section 3.6.

- 4501 Otay Valley Road, approximately 0.8 miles southwest of the Site, is listed under Nakano Farms and within the EnviroStor, Cleanup Program Sites – Spills, Leaks, Investigations, and Cleanups (CPS-SLIC), Statewide Environmental Evaluation and Planning System (SWEEPS), Historical UST, and HMMD databases. One UST is reported

at this property, and the cleanup is reported to have been completed and closed as of May 1996; additional information was not provided in the Radius report and was not found on GeoTracker or EnviroStor; however, based on the distance of this facility from the Site and orientation hydraulically downgradient from the Site, it is not likely this facility adversely impacted the Site.

- 4551 Otay Valley Road, approximately 0.8 miles south of the Site and listed under the EnviroStor and Bond Expenditure Plan databases under Apache Services. This property was used as a salvage yard that may have received materials from nearby naval facilities. The property is impacted with metals, petroleum products, and solvents and is located on fill material. No further information was provided; however, based on distance from the Site and nature of surficial impacts, it is not likely this property has adversely impacted the Site.

- Proposed Otay Ranch School on Camino Prado is listed under the Envirostor and School databases. The potential school site is being investigated for potential methane mitigation and is being evaluated for suitability for school use under the Department of Toxic Substance Control (DTSC). Based on the nature of the listing, it is not likely this property has adversely affected the Site.

No orphan sites were identified in the EDR Radius Report.

3.3 Historical Aerial Photographs and Topographic Maps

Historical aerial photographs (aerials) from 1949, 1953, 1964, 1966, 1970, 1979, 1985, 1989, 1994, 2005, 2009, 2012, and 2016, and USGS topographic maps (topos) for years 1904, 1930, 1943/1944, 1953, 1955, 1975, 1991, 1994/1996, and 2012 were received from EDR; aerials for 1953, 1964, 1966, 1968, 1971, 1981, 1989, 1994, 1996, 2002, 2003, 2005, 2009, 2010, 2012, 2014, and 2016 and topos for years 1908, 1911, 1915, 1920, 1920, 1928, 1932, 1941, 1943, 1955, 1957, 1958, 1960, , 1961, 1962, 1963, 1973, 1977, 1982, 2002, 2012, 2015, and 2018 online at HistoricAerials.com; and aerials dated 1994, 1996, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, and 2018 on GoogleEarthPro [HistoricAerials.com, 2020; GoogleEarthPro, 2020]. A summary of historical Site use based on review of the aerials and topos is provided below:

- The oldest available topos indicate the Poggi Canyon Creek flowed through the northern portion of the Site. The Otay River is shown south of the Site, south of a road with several small structures. Telegraph Canyon and several additional roads are shown to the north of the Site.

- A 1949 aerial indicates a pit mine with benched side walls visible south of the Site, as well as a property that may have been agricultural located south of the pit mine. An unpaved access road traverse through this property to the pit mine. The surrounding area appears to be largely undeveloped native land.

- A 1953 topo depicted a "borrow pit" in the area south of the Site, alluding to mining of bentonite that occurred in this area prior to landfill use. The 1953 aerial confirmed the presence of the borrow pit and the agricultural property south of the borrow pit appeared to be a dairy or cattle feed lot. By 1964, it appears the borrow pit was converted to its landfill use and surrounding operations, including the rendering landfill and other industrial facilities located further south. It appears borrowing or surveying for an expansion of the Class I landfill took place around this time, based on a cleared grid around the existing boundaries of the landfill, and what appears to be a sludge or liquid treatment area with six beds is visible within the landfill footprint. By 1966, the water tower on the top of the hill south of the Site had been constructed. The remained undeveloped.
- The 1970 aerial indicated the landfill had been expanded to the south, and a second water tower had been constructed southwest of the Site. Grading activities are visible in the aerial to the north and appear to be pre-construction or agriculture. The Site remained undeveloped.
- The 1975 topo the areas west, northwest, and southwest of the Site had been developed with residential subdivisions and schools. The 1979 aerial showed subdivisions constructed adjoining the Site to the southwest and west, and construction of the existing medical facility and ancillary structures has begun approximately 0.5 miles north of the Site. The landfill operations in the areas south of the Site, likely indicating the Class III landfill had begun operating. It appears soil was borrowed from the eastern portion of the Site around this time, for landfill use or some other purpose. By 1985, landfill operations had expanded to the east. The Site remained undeveloped.
- The 1991 topo depicted the landfill area to the south as a "Gravel Pit" on the topo, but the aerial appears to indicate the area south of the Site was primarily used for landfilling. By 1994, the extent of the Class III landfill appeared similar to its current footprint.
- By 2005 Olympic Parkway had been constructed north of the Site, and the area north of Olympic Parkway had been developed with residences. The Site remained vacant and undeveloped, with access points to the Site from Olympic Parkway. By 2006, a third larger water tower had been constructed south of the Site. Landfill operations at the Class III landfill appeared similar.
- The 2018 aerial indicated the Site remained undeveloped, and landfill activities continued on the adjoining property southeast of the Site. The adjoining areas southeast and east of the landfills had either been developed with residences or were undergoing residential development.

3.4 Sanborn Maps

EDR conducted a search for Sanborn fire insurance maps for the Site area. EDR reported map coverage was not available for the area (Appendix F).

3.5 City Directories

City directories were searched by EDR for available years from 1971 to 2014 to assess occupancy at the Site and adjoining properties (Appendix G). The Site was not listed in the City Directory. Properties within the vicinity of the Site along Olympic Parkway, Brandywine Avenue, East Palomar Street, and Maxwell Road included listings from 1965 to 2014 for various residential, commercial, and light industrial properties. In 1987, 1700 Maxwell Road is listed under BKK Corporation. By 1992, this address was listed under Greenfield Environmental Inc., 1600 Maxwell was listed under Pacific Energy, and 1800 Maxwell was listed under San Diego Gas & Electric Co. In 2000, 1700 Maxwell was listed as Otay Landfill, with 1751 Maxwell listed as Otay Landfill Buy Back Center. By 2005, 1600 Maxwell was listed as Covanta Power Pacific Inc., 1700 Maxwell listed as Solutient Technologies (a radiological service, environmental consulting, and remediation services business), and 1800 Maxwell is listed as City of Chula Vista Corp. Yard Project and National Express Corporation; 1855 is listed as J&G and Vidrio Towing. By 2010, 1700 Maxwell was listed as Republic Services (current owner). 1700 Maxwell continued to be listed under Otay Landfill Inc., and Republic Services Inc., and 1600 Maxwell included Otay Landfill Gas LLC by 2014. The listing at 1700 Maxwell is directly related to the Otay Class I and III landfills. It appears the 2005 listing at the Otay Landfill address for Solutient Solutions may be related to testing for radiological wastes at the landfill; 2005 was also the year the moratorium on low-level radioactive waste to Class III landfills was enacted. Based on city directory listings obtained, no evidence of additional RECs was identified.

3.6 Local Regulatory Agencies

Geosyntec contacted the following federal, state, and local agencies and accessed associated online databases to identify information pertaining to the Site. Pertinent documents obtained from the agencies are provided in Appendix B:

- California Department of Oil, Gas, and Geothermal Resources (DOGGR) Database
- Cal Fire – Office of the State Fire Marshal
- Chula Vista Building Department
- Chula Vista Public Works Department – Industrial Waste
- City of Chula Vista Fire Department
- Department of Toxic Substances Control (DTSC) – Cypress, Chatsworth, and San Diego Offices, and EnviroStor Database
- Regional Water Quality Control Board (RWQCB) – San Diego Region, and GeoTracker Database
- San Diego Air Pollution Control District
- San Diego County Hazardous Materials Management Division
- United States Environmental Protection Agency (USEPA) and MyPropertyInfo Database

Pertinent records received to date and/or obtained from publicly available online sources are summarized below. If files are received after finalization of this report which change the conclusions herein, an addendum will be prepared.

DTSC and EnviroStor Database

On 26 December 2019, representatives from the DTSC Cypress, Chatsworth, and San Diego offices indicated that their department had no records for the Site. No pertinent cases related to the Site were identified in the DTSC EnviroStor database. However, one document regarding the Appropriate Technologies II facility was found in the EnviroStor database. This document from the DTSC acknowledged a report documenting that closure of the Appropriate Technology facility had been performed in accordance with the approved closure plan, and indicated closure was officially approved as of 29 October 1998 for this facility. Further online research indicates the Appropriate Technologies facility was owned by BKK Corporation, and was used for treatment of liquid waste (Winters, 1983). This facility used a single-module system with a tank farm and chemical mixing plant to treat liquid wastes prior to disposal at the landfill, effectively categorizing this as a treatment, storage, and disposal (TSD) facility. However, records show disposal did not occur at this facility. Based on the closure of the facility and ongoing monitoring of the surrounding Class I landfill, it is unlikely this facility has adversely impacted the Site.

City of Chula Vista Fire Department

On 27 December 2019 a representative from the City of Chula Vista Fire Department indicated that the fire department had no records for the site.

Cal Fire – Office of Fire Marshall

On 31 October 2018 a representative from Cal Fire indicated that they had records related to the Site. This included records for two listings on Olympic Parkway: one listing at 1250 Olympic Parkway for a gas leak at the Otay Ranch High School approximately 1.5 miles northeast of the Site, and one listing for a gasoline-related incident in the street in February 2018 at the intersection of Brandywine Avenue and Olympic Parkway, adjacent to the Site to the west. No additional information was provided; however, it does not appear these incidents occurred at or adversely impacted the Site.

Chula Vista Public Works Department – Industrial Waste

The Chula Vista Public Works Department for Industrial Waste indicated their representatives have extended their response deadline to 16 January 2020; as of this date, no records have been returned from this department. However, the City Clerk's office did provide a record of an inspection regarding a water tower. As described in Section 3.3, the water towers are located on adjoining properties south of the Site. This record is included in Appendix B.

Chula Vista Building Department

On 23 December 2019 a representative from the Chula Vista Building Department indicated that there were no records pertaining to building permits or certificates of occupancy for the Site.

San Diego Air Pollution Control District

On 30 December 2019 a representative from the San Diego Air Pollution Control District indicated their agency had no records for the Site.

United States Environmental Protection Agency (USEPA) and MyPropertyInfo Database

As of 24 January 2020, the USEPA had not completed the request for records for the Site. Additionally, no records for the Site were identified in the USEPA's MyPropertyInfo database.

Regional Water Quality Control Board (RWQCB) and GeoTracker Database

Cases related to nearby properties were identified in the RWQCB's online GeoTracker database. A summary of pertinent findings is below:

- The closed Otay Class I Landfill is adjacent to the Site to the south. This landfill accepted hazardous waste from 1963 to 1980 (RWQCB, 2000). This landfill does not have a liner and therefore has no leachate collection system. A groundwater monitoring network exists at the landfill and is monitored on a semiannual basis. The most recent semiannual groundwater monitoring report, dated October 2019, indicates that several groundwater monitoring wells screened in the perched zone aquifer contained concentrations of VOCs, some over their respective Maximum Contaminant Levels (MCLs) and applicable Water Quality Protection Standards (WQPS) (Geosyntec, 2019). However, the wells containing detectable concentrations of VOCs are situated in the southern portion of the landfill and not near the boundary of the Site. One well screened in the intermediate aquifer also contained detectable concentrations of VOCs; however, this well is also in the southern portion of the landfill, and the VOC detections have been attributed to landfill gas from the adjoining Class III landfill. The VOCs in the perched aquifer may also be attributable to the adjoining Class III landfill, as this landfill does not have a perched zone monitoring network and samples collected from the extraction wells screened in the perched zone at the Class III landfill contained VOCs in excess of WQPS and MCLs. Leachate levels at the Class III landfill have also reportedly risen significantly in the last two years, resulting in a NOV to the landfill and subsequent corrective action; constituents detected in the Class I landfill monitoring network are indicative of migration of constituents from saturated waste, leachate, or condensate impacts from the Class III landfill. The Otay Class I landfill does not have a methane monitoring system. Based on the results of groundwater monitoring at the facility, no VOCs detected in the monitoring wells closest to the Site at this facility, and groundwater flow away from the Site within this facility, it is not likely that this facility has adversely impacted the Site. Methane monitoring is discussed below (Class III landfill).

- The Otay Annex Sanitary Landfill (Class III landfill) is located adjacent to the Class I landfill and adjoining the Site to the southwest. The Class III landfill detached from the Class I unit in 1997 and is now operated by San Diego Landfill Systems. The most recent semiannual groundwater monitoring report, dated October 2019, indicated that VOCs were detected in monitoring wells in the southern portion of the Site, and no VOCs were detected in the monitoring wells closest to the Site, which are screened in the intermediate aquifer. VOCs were detected in wells downgradient of a subsurface slurry wall and the extraction wells that remove groundwater and pump it to a tank used for dust control as part of the corrective action program (CAP). These wells are screened in the perched zone and frequently contain VOCs above detectable and allowable limits. Groundwater flow depicted in the October report indicates that groundwater in the Class III landfill is to the west in the eastern portion of the landfill and to the northwest in the western portion of the landfill, both toward the Site. The lack of detections of VOCs in the downgradient wells closest to the Site indicate impacts have not migrated onto the Site within the intermediate aquifer, and detections at the Class I landfill in the perched zone in the southeastern corner of the Class I landfill indicate VOCs are most likely confined to the southern portions of each landfill. In addition to the groundwater monitoring network and CAP, a landfill gas control system (LFGCS) also operates at the Class III landfill, and the landfill is monitored by a network of perimeter probes. In the Quarterly Monitoring Report dated 29 April 2019, two perimeter probes were reported to have contained methane above the lower explosive limit (LEL) of 5% by volume during 2018 and one above the LEL in March 2019; an NOV was issued and remedial actions in cooperation with the LFG system are ongoing. The probes containing methane above the LEL are on the eastern and southeastern boundary of the landfill. The perimeter probes (all intervals) closest to the Site did not contain methane during field screening during the first quarter 2019. Review of several additional methane monitoring reports indicate methane has not been detected in the perimeter probes closest to the Site, indicating the LFGCS is effectively controlling landfill gas migration from the landfill.

- The former Omar Rendering Facility is located approximately 0.7 miles southwest of the Site. As noted in Section 3.2.4, this facility housed six Class I waste ponds, the contents of which were removed in 1980. The impacted soils beneath the pond were excavated and placed in a lined cell in the northwest corner of the Site, which is currently capped and used as a parking lot accessed from Auto Park Place. Review of the most recent annual report for this facility indicates groundwater has been impacted with VOCs (primarily TCE and PCE), semi-volatile organic compounds (SVOCs), and inorganic constituents (APTIM, 2019). A flow map in the most recent groundwater monitoring report shows groundwater flow to the south, away from the Site. Groundwater mounding appears to have occurred at this facility during operations of the ponds, which may have pushed constituents against the gradient to the north; however, these beds have been decommissioned since 1980 and

the flow map in the most recent report indicates groundwater flow is to the south. One Leaking Underground Storage Tank (LUST) is also reported at this facility; however, the impacted soil was excavated, and the release received closure from the DEH in 1993 with residual contamination below method detection limits (MDLs). Based on the LUST NFA, this facility's distance from the Site and its orientation hydraulically downgradient from the Site, it is unlikely this facility has adversely impacted the Site.

- Ecology Auto Parts was confirmed at 825 Energy Way, approximately 0.5 miles south of the Site. Two closed LUST sites are mapped at this location; one LUST received NFA from the RWQCB in July 2019 and no information is provided about the second LUST with the exception of a monitoring report from 2006; it appears these were part of the same investigation. Based on the closure of the cases at this facility, its distance from the Site, and orientation hydraulically downgradient to the Site, it is not likely this facility has adversely impacted the Site.

On 6 January 2020 a representative from the Regional Water Quality Control Board (RWQCB) indicated that their department had no records for the site.

San Diego County Hazardous Materials Management Division (Dept. of Environmental Health)

On 26 December 2019, a representative from the DEH indicated HMMD had no records for the site. A query for the Site parcel numbers on the DEH Document Search Website returned monitoring well technical reports for a site unrelated to the Subject Property and no documents related to the Site.

California Department of Oil, Gas, and Geothermal Resources (DOGGR) Database

Review of the DOGGR database on 15 January 2020 indicated that no oil or gas wells are located on the Site. The nearest oil and gas wells are over a mile from the Site to the east, west, and south.

3.7 Previous Site Assessment Reports

One previous Phase I environmental site assessment report was provided by the User. This report was prepared by ENVIRON International Corporation for the City of Chula Vista in 2005 for the purpose of evaluating two portions of land (including the Site) in connection with the proposed zoning change and development of the subject property as a residential community. The site assessment was conducted concurrently with a Human Health Risk Assessment (HHRA) that evaluated potential human health risks associated with the adjacent landfills and associated operations. No RECs were identified as part of this Phase I ESA. *De minimis* conditions included the Site's proximity to the adjacent landfills, which are sources of landfill gas, particularly methane, which can migrate through waste and soil and cause an explosive hazard, as well as chemical and human health concerns; this condition was evaluated in the HHRA (discussed below). Additionally, the proximity to the Class I landfill indicated VOCs and other waste constituents may be present in groundwater near the Site; however, the site assessment indicated that VOCs are not likely to migrate to the Site based on trends assessed at the time. This report

also addressed the proximity of the Appropriate Technologies II facility to the Site; however, the report did not deem the Appropriate Technologies II facility a REC due to NFA granted in 1996, generally good housekeeping notes, and no disposal reported at the facility.

As noted above, an HHRA and Nuisance Analysis was conducted by ENVIRON concurrently with the Phase I ESA to evaluate human health risk, nuisance, and odor impacts to the Site from the adjacent facilities (ENVIRON, 2005). Emissions were identified as those from combustion engines and a flare that burns landfill gas, fugitive gas emissions from the landfill surface, and emissions from various landfill activities. The HHRA concluded that the cancer risks and chronic and acute hazard indices for the potentially maximally-exposed individual at both parcels evaluated (same areas of land discussed in the Phase I report) were less than the significant thresholds established by the Office of Environmental Health Hazard Assessment (OEHHA). The report also concluded that approximately 5% of the Site would experience dust deposition rates greater than the deposition guideline of 67 grams per square meter per year ($g/m^2 – yr$) which may generate complaints from residents. The odor analysis portion of the HHRA yielded results indicating odors may exceed published odor thresholds at the Site (based on the results of surrogate chemicals hydrogen sulfide and acetaldehyde used in modeling; hydrogen sulfide was found to be produced at concentrations higher than the geometric mean of the odor threshold for one or more receptors at the Site for a portion of the time over a one-year period. Acetaldehyde impacts did not exceed this threshold). The HHRA also concluded that landfill gas was not likely migrating onto the Site based on review of perimeter probe monitoring data, although the potential exists as long as the landfill is generating LFT. ENVIRON recommended a soil gas survey be performed on the parcels to confirm that no LFG was migrating past the probes. It does not appear that a soil gas survey was performed after 2005 to evaluate methane concentrations.

A Limited Soil-Gas, Soil, and Groundwater Sampling Report was prepared by Geocon Environmental Consultants in 1994 for the purpose of evaluating potential presence of hazardous materials within the soil pore gas, soil, and groundwater at the subject property (in this case, the southeastern portion of the Site). Three vadose moisture monitoring wells and seven gas probes with three screened intervals each were already existing at the Site at the time of this investigation, and two temporary groundwater monitoring wells were installed/advanced at the Site in the southeastern portion of the Site. During the investigation in 1994, vadose moisture wells were gauged for moisture twice, the gas probes were refurbished and screened twice (one probe sampled once), samples were collected from the groundwater monitoring wells, and soil samples were collected from the exploratory borings. No liquid was detected in the vadose zone wells during either monitoring event. Methane was detected at 1% LEL in G1-G (shallow interval) along the southeastern boundary of the Site, and at 13% LEL in G6-G (shallow interval) along the eastern boundary of the Site during the April screening. Methane was again detected at 1% LEL in G1-G and at 8% LEL in G6-G, 4% LEL in G6-R (middle interval), and 8% LEL in G6-B (lower interval) during the May screening event. A sample was collected from G6-G during one of the monitoring events, yielding a methane concentration of 3,300 ppm. The LEL for methane is 50,000 ppm (5% by volume), which was not exceeded; however, these results indicate landfill gas migration onto

the Site, likely from the adjoining Class III landfill. Groundwater samples collected in the southeastern portion of the Site did not contain detectable VOCs or SVOCs, but selenium, chromium, and arsenic also exceeded MCLs in one well. Analysis of one soil sample collected from one of the exploratory borings indicated that halogenated VOCs were not detected in soil above the MDL.

A limited soil vapor investigation was performed by Geosyntec in January 2020 in support of Lennar's pre-purchase due diligence process, and was conducted to address potential environmental concerns related to the operating Republic Services Otay Mesa Class III Landfill located adjoining south and southeast of the site (Figure 3). The soil vapor investigation conducted on 24 and 27 January 2020 documented methane was not detected in the samples, indicating that the LFGCS is effectively controlling the migration of methane from the adjoining Class III landfill (Geosyntec, 2020). Low-level concentrations of VOCs were detected in soil vapor samples collected at the site, including four analytes detected in one or more samples at concentrations at concentrations above San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Tier 1 Environmental Screening Levels for Residential Sub-slab / Soil Gas (Tier 1 ESLs) [SFBRWQCB, 2019]. These screening levels are based on an excess lifetime cancer risk (ELCR) of "one-in-a-million" (denoted as $1x10^{-6}$) as an acceptable risk level, and were derived based on a generic conservative conceptual site model designed for use at most sites for site screening purposes. However, these screening levels do not account for additional attenuation with depth into the soil column, quality of the overlying concrete slab, or other site-specific factors, and are therefore overly conservative for use at the site. Instead, comparison to default DTSC screening levels (SLs) for future residential structures is more appropriate. Default DTSC-SLs for preliminary screening evaluations differentiate between samples collected from the interval immediately below the slab and samples collected from SVPs screened within the vadose zone, because VOCs in soil vapor at depth are additionally inhibited from upward migration due to inherent properties of the overlying soils (such as permeability and moisture content). Further, the DTSC-SLs for future residential structures more appropriately account for additional attenuation resulting from the use of modern construction methods, earthwork/grading activities, and new, competent concrete slab pours. Using the DTSC-recommended default attenuation factors, no analytes were detected in excess of the calculated DTSC-SLs for subsurface soil vapor beneath future residential structures. Therefore, with the understanding that the adjoining Class III landfill owner/operator will continue to operate the LFGCS in accordance with Title 27 requirements, future earth-moving activities in preparation for site development and construction will likely result in dissipation of residual VOC concentrations in shallow soil vapor, and future structures will be constructed using modern building practices with competent concrete slabs, there is no apparent unacceptable risk to future residential site occupants due to methane and/or VOC-impacted soil vapor. A copy of the January 2020 Soil Vapor Investigation Summary is included in Appendix B.

4 INTERVIEWS

The user provided contact information for Mr. Sam Holty, Vice President of Ayers, the property management group for the Site owner, ACI Sunbow. A summary of the interview conducted is presented below:

4.1 Interview of Site Contact

On 10 January 2020, Geosyntec conducted an interview with Mr. Sam Holty, a representative for the property management group (Ayers) for the Site owner. During the interview, questions were asked regarding Site use and conditions, typical of a Phase I ESA interview in accordance with ASTM E 1527-13. Mr. Holty indicated that he has been associated with the Site since 1996 when ownership began. Key elements of the interview are as follows:

- When asked about property history, Mr. Holty indicated he did not have knowledge of any previous tenants or their use of the Site, if any.
- When asked about the current use of the Site, Mr. Holty indicated that the Site is currently vacant and undeveloped.
- When asked about wells or tanks at the Site, Mr. Holty indicated he was not aware of any monitoring wells at the Site.
- When asked about possible historical placement of fill soil or waste disposal onsite, Mr. Holty was not aware of fill soil or waste disposal performed onsite. He indicated some soil may have been borrowed from the Site during Olympic Parkway construction.
- When asked about drains on the property, Mr. Holty indicated that no buildings are on the Site and a wetland is present in the northern portion of the Site. This wetland discharges off the property to the west through a culvert and passes beneath several culverts on the Site.
- When asked about knowledge of hazardous substances or petroleum products at the Site, Mr. Holty was not aware of any such use or storage at the Site.
- Mr. Holty reported that he had no knowledge of any spills, leaks, or environmental incidents associated with the property.
- Mr. Holty indicated that the wetlands on the Site are permitted under a 404 Permit (Clean Water Act [CWA] section 404 permit for regulating the discharge of fill/dredged material to waters of the United States and wetlands). Mr. Holty also indicated there is an easement through the Site for the reclaimed water utility line. Mr. Holty indicated descriptions of both areas are included in the Title Report for the Site.
- Mr. Holty indicated there are no land use restrictions for the Site for contamination purposes; however, he indicated only approximately 54 acres in the southeastern portion

of the property were allowed to be developed, as the remainder are part of the Habitat Conservation/Multiple Species Conservation plan.

4.2 Interview of State and/or Local Officials

No case managers were identified at regulatory agencies which may have had files related to the Site; therefore, interview of regulatory personnel was not performed.

5 SUMMARY OF SITE RECONNAISSANCE

5.1 Methodology

The following section summarizes observations made during the Site reconnaissance performed by Ms. Rose Propst of Geosyntec on 3 January 2020. The Site reconnaissance included a walking survey of the Site. The adjoining properties were inspected from public right-of-way and where visible from the Site. The Site layout and features as identified during the Site reconnaissance are depicted on Figure 2. Photographs taken during the Site reconnaissance are included in Appendix H.

5.2 Reconnaissance Observations

A summary of the reconnaissance observations is provided in Table 1. Notable observations are summarized below:

- The Site is accessed from Olympic Parkway from three areas that cross over culverts perpendicular to surface water flow in the northern portion of the Site. These areas are gated off from vehicle access. The surface water flows from east to west along the northern boundary of the Site. From this area, the Site slopes steeply up to the south.
- The Site is undeveloped, with tall grass and scrub across the majority of the Site. Several dirt paths traverse the Site. The Site is fenced along part of the eastern perimeter and along the entire southern perimeter. The property to the southeast and south is occupied by the closed Otay Class I landfill and the active Otay Class III landfill.
- Odors believed to originate from the active Class III landfill were noted at the Site. A mattress was observed near the easement near Olympic Parkway, and a couch was observed at the top of the hill. Several small pieces of debris appeared to have blown in from the wind.
- One transformer was observed in or directly adjoining the northeastern corner of the Site along the roadway easement (ID J8269-03). No PCB stickers were observed. A reclaimed water line was marked along the easement and crossing into the Site.
- Monitoring vaults and flush-mounted features were observed along the property lines in the southeastern portion of the Site, including one near the point of access along Olympic Parkway, and one outside the fence line along the southern boundary with “CP Test” markers that may be related to a recycled water pipeline which traverses the Site. Monuments observed along the southern and eastern boundary of the landfill and appeared to be monitoring wells or soil gas probes (confirmed by documentation from the User). The monuments were locked or rusted shut and not able to be accessed at the time of the reconnaissance.
- Perimeter gas probes were observed outside the southern and eastern fence line near the landfill boundary. A large warehouse-style building was also observed directly south of the southeast corner of the Site.

6 SUMMARY OF FINDINGS

Geosyntec has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 for an approximately 136-acre property located at on Olympic Parkway in Chula Vista, California (the Site; Figures 1 and 2). This assessment has revealed the following:

6.1 Site Conditions and Use

The Site is situated on a hillside and slopes steeply from the south down to a permitted wetland along the northern boundary of the Site, parallel to Olympic Parkway. This wetland drains through a series of culverts and discharges from the northwest corner of the Site. Several panels of concrete are near the culverts and appear to assist with surface water drainage. There are no buildings on the Site, and several footpaths traverse the Site. Seven gas probes, three vadose monitoring wells, and two monitoring wells currently exist on the Site (Figure 2). Monuments and vaults labeled "CP Test" and believed to be associated with a recycled water pipeline which traverses the Site were also observed. The Site is bounded by chain-link fencing along the southern perimeter, which partially extends along the eastern border. Several chain-link gates are located at vehicle access locations from Olympic Parkway on the north side of the Site.

The Site has been historically vacant and undeveloped, and remains vacant and undeveloped.

6.2 Offsite Conditions and Use

Properties in the Site vicinity have historically been used for bentonite (clay) mining, landfilling, and other industrial, commercial, and residential purposes. The Site is bounded to the north by Olympic Parkway; directly north of this is an undeveloped hillside, followed by residential subdivisions. Portions of the Otay Annex Sanitary Landfill adjoin the property to the southeast, and the property directly east of the Site is vacant and undeveloped. The Otay Annex Sanitary Landfill, also known as the Otay Class III landfill, extends west and also adjoins the Site to the south and surrounds the adjoining Otay Class I Landfill. Residential developments are situated southwest and directly west of the Site, and east and south of the Otay Class III landfill. Both the Class I and Class III landfills have groundwater monitoring networks which are monitored semiannually under orders issued by the San Diego Regional Water Quality Control Board. Groundwater at both landfills is generally to the south-southwest away from the Site, and there are no indications of groundwater impacts beneath the site attributable to the two adjoining landfills. The Class III landfill is equipped with a landfill gas control system (LFGCS) and a perimeter probe monitoring network which is routinely monitored under the direction of the County of San Diego Local Enforcement Agency. Methane has not been detected above 1% by volume at the perimeter probes closest to the Site.

6.3 Data Gaps

In accordance with ASTM E1527-13, this section documents data gaps in the information obtained and reviewed as part of this Phase I ESA and discusses the associated significance. A data gap is

defined in ASTM E1527-13 as being *"… a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information."* Following investigation, it appears that "data gaps" as defined by ASTM, exists for file review requests which have not been received from some regulatory agencies. Based upon the available information, although these data gaps exist, it is believed that they have not affected the identification of recognized environmental conditions at the Site.

6.4 Recognized Environmental Conditions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Site which encompasses approximately 136-acres located on Olympic Parkway in Chula Vista, California. Any exceptions to, or deletions from, this practice are described in Section 6.3 Data Gaps of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property, except for the following:

- Historical investigations performed in the 1990s to assess potential impacts to the Site from the adjoining landfill properties identified subsurface methane which had migrated beneath the Site from the Class III landfill at concentrations up to 3,300 parts per million (ppm) methane, which is more than an order of magnitude lower than the lower explosive limit (LEL) of methane (50,000 ppm, or 5% by volume). To address the absence of recent soil vapor data for the site, a limited soil vapor investigation was conducted at the Site in January 2020 to evaluate current onsite subsurface soil vapor conditions and potential subsurface impacts attributable to the adjoining Otay Class III landfill. The soil vapor investigation documented methane was not detected in the samples, indicating that the LFGCS is effectively controlling the migration of methane from the adjoining Class III landfill. Low-level concentrations of VOCs were detected in soil vapor samples collected at the site, including four analytes detected in one or more samples at concentrations at concentrations above their respective Tier 1 ESLs or EPA RSLs for a residential site scenario. However, none of these analyte concentrations exceeded calculated DTSC-SLs for future residential construction. Therefore, with the understanding that the adjoining Class III landfill owner/operator will continue to operate the LFGCS in accordance with Title 27 requirements, future earth-moving activities in preparation for site development and construction will likely result in dissipation of residual VOC concentrations in shallow soil vapor, and future structures will be constructed using modern building practices with competent concrete slabs, there is no apparent unacceptable risk to future residential site occupants due to methane and/or VOC-impacted soil vapor.

6.5 De Minimis Conditions

De minimis conditions are environmental conditions which generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of the appropriate governmental agencies. Conditions determined

to be *de minimis* are not RECs. *De minimis* conditions identified at the Site include debris and several pieces of discarded furniture, including a couch and a mattress, observed at the Site.

7 CERTIFICATION

This environmental site assessment (ESA) was prepared in accordance with the scope of work, terms and conditions described in Geosyntec's proposal dated 20 December 2019. This proposal incorporated by reference the ASTM Standard E 1527-13, *Standard Practice for Environmental Assessments: Phase I Environmental Site Assessment Process*.

"I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."

_____ _____

Veryl Wittig Date
California Professional Geologist No. 7115

8 REFERENCES

APTIM, 2019. *Annual Report: April 2018 to March 2019; Former Omar Rendering Site Waste Management Containment Cell.* April.

ASTM, 2013. *ASTM Standard E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.*

DOGGR, 2020. California Division of Oil, Gas, Geothermal Resources (DOGGR) database. APNs 644-011-06-00 and 644-020-11-00 and Surrounding Parcels. Accessed 15 January.

EDR, 2019. The EDR-Aerial Photo Decade Package, Inquiry 5914677.8. Environmental Data Resources, Inc., 24 December.

EDR, 2019. The EDR-City Directory Abstract, Inquiry No. 5914677.5 Environmental Data Resources, Inc., 30 December.

EDR, 2019. The EDR-Certified Sanborn Map Report, Inquiry No. 5464487.3. Environmental Data Resources, Inc., December 23.

EDR, 2019. The EDR-Historical Topo Map Report, Inquiry No. 5464487.4. Environmental Data Resources, Inc., 23 December.

EDR, 2019. The EDR Radius Map Report with GeoCheck, Inquiry No. 5914677.3. Environmental Data Resources, Inc., 23 December.

Geo-Logic Associates, 2019. Semiannual (April through September) 2019 Water Quality Monitoring Report, Otay Landfill. 28 October.

Geosyntec, 2006. April – September 2006 Semi-Annual Monitoring Report, Detection Monitoring Program, Otay Class I Landfill, Chula Vista, California. October.

Geosyntec, 2019. April – September 2019 Semi-Annual Monitoring Report, Detection Monitoring Program, Otay Class I Landfill, Chula Vista, California. 25 October.

Geosyntec, 2020. Soil Vapor Investigation Summary, Sunbow Proposed Development, Chula Vista, California. 4 February.

GoogleEarth, 2020. APNs 644-011-06-00 and 644-020-11-00. Accessed 14 January.

HistoricAerials.com, 2020. APNs 644-011-06-00 and 644-020-11-00, Chula Vista, California, www.historicaerials.com. Accessed 14 January.

Republic Services/SCS Engineers, 2019/2018. Surface Emissions and Perimeter Probe Monitoring Results for the Otay Landfill, San Diego, California, First Quarter 2019 through First Quarter 2018.

United States District Court, N.D. California, 1997. *A&W Smelter and Refiners, Inc., Plaintiff, v. William J Clinton, et al., Defendant.* 25 March.

Winters, Ernie. April 1983. From Secure Landfill to Waste Treatment. *Waste Age*, (239-250), within Hazardous Waste Landfilling – Impact on Small Businesses. 3 June. 1983.

TABLES

TABLE 1

Summary of Site Reconnaissance
Phase I ESA
Chula Vista, California

ASTM Section	Feature or Condition	Description
General Site Setting		
9.4.1.1 & 9.4.1.2	Current and Former Property Usage	The Site is currently vacant and undeveloped. It has been vacant and undeveloped since at least 1949, according to historical aerial photographs.
9.4.1.3 & 9.4.1.4	Current and Former Adjoining Property Usage	Currently adjoining the Site to the north is Olympic Parkway, followed by vacant land and residential developments. The property adjoinining the Site to the east-northeast is vacant, and the property to the east-southeast contains a portion of the Otay Class III landfill. The property adjoining the Site to the south contains the Otay Class I landfill, property associated with the Class III landfill, and residential developments to the south and southwest. The property to the west of the Site is developed with residences and Brandywine Avenue. The adjoining land has historically been vacant to the north, east, and west, prior to its current development, and landfill operations began at the properties to the south around 1963 after the area was mined for bentonite.
9.4.1.5	Current and Former Use of Surrounding Area	Currently, the site vicinity to the north is developed with residential subdivisions, a shopping center, and medical center. The area east and southeast of the Otay Class III landfill was historically undeveloped native land until around 2011 when those areas started undergoing residential development (some of which are still undergoing construction). The Site vicinity in the area south of the landfills has been used for a range of agricultural, commercial, and industrial purposes (dairy/feedlots, auto recycling yards, auto sales lots, reclaimed aggregate yard, and various multitenant commercial buldings) since at least the 1940s.
9.4.1.6	Geology, Hydrogeology, Hydrology, Topography of Site and Adjoining Properties	The Site is directly underlain by the San Diego Formation, then the Otay Formation, followed by the Mission Valley (Sweetwater) Formation. The San Diego Formation consists of Pliocene-aged conglomerate and marine sandstone. Bentonitic clay and claystone are encountered in shallow soils at the Site. The Otay Formation consists of marine or shallow bay deposits of mudstone, silt, sand, thin gravel layers, and volcanic ash; this volcanic ash has been altered to bentonite clay in some areas, including the footprint of the landfills to the south. The Mission Valley/Sweetwater Formation consists of clay and claystone with sand, silt, and gravel beds. The decreasing topographic gradient of the Site is to the north, with large native hills in the southern portion sloping down to the streambed along the northern perimeter. The hill then slopes down south of the Site to the landfills. The ridge along the southern portion of the Site continues to the east and west, and slopes down to the west to Brandywine Avenue.
9.4.1.7	Onsite Structures	No structures exist onsite.
9.4.1.8	Roads and Parking Areas	No roads or parking areas exist onsite. Several unpaved paths were noted from foot and offroad vehicle traffic.
9.4.1.9	Potable Water supply	No potable water supply currently exists to the Site.
9.4.1.10 & 9.4.4.7	Sewage Disposal or Septic Systems	No sewage disposal systems or septic systems were observed onsite.
Interior and Exterior Observations		
9.4.2.3 & 9.4.2.8	Hazardous Substances or Petroleum Products	No hazardous substances or petroluem products were observed onsite.
9.4.2.4	Underground Storage Tanks	No evidence of underground storage tanks was observed onsite.
9.4.2.4	Above-ground Storage Tanks	No above-ground storage tanks were observed onsite.
9.4.2.5	Odors	Odors related to active landfilling operations on the adjoining Class III landfill were noted at the Site.
9.4.2.6	Pools of Liquids	No pools of liquids were observed at the Site.
9.4.2.7	Drums and Containers > 5 Gallons	No drums or containers greater than five gallons were observed at the Site.
9.4.2.9	Unidentified Substances/Containers	No unidentified substances or containers were observed at the Site.
9.4.2.10	PCB Items	No PCB items were observed a the Site. One pad-mounted transformer was observed in the right-of-way directly south of Olympic Parkway north of the northeastern corner of the Site. No PCB stickers were observed on the transformer.
Interior Observations		
9.4.3.1	Heating and Cooling Systems	No buildings are currently onsite.
9.4.3.2	Stains/Corrosion	No buildings are currently onsite.
9.4.3.3	Drains and Sumps	No buildings are currently onsite.
Exterior Observations		
9.4.4.1	Pits, Ponds, or Lagoons (Onsite and Adjoining)	No pits or lagoons were observed onsite or on adjoining properties. Ponded water was observed intermittently in conjunction with the stream discussed below under stormwater discharge.
9.4.4.2	Stained Soil or Pavement	No stained soil or pavement was observed.
9.4.4.3	Stressed Vegetation	No stressed vegetation was observed.
9.4.4.4	Solid Waste	One mattress and a dilapidated couch were observed on the Site. Small pieces of debris that appeared to have been blown onto the Site by the wind were observed.
9.4.4.5	Wastewater or Stormwater Discharge	No wastewater is generated a the Site. Stormwater flows to a shallow, flowing stream flowing east-west along the northern perimeter of the Site within a designated wetland (which appears to be a continuation of the Poggi Canyon Creek). The streambed was approximately 15 feet deep and approximately 100 feet wide and filled with plants typically associated with wetlands.
9.4.4.6	Wells	Several stickup and flush-mount monuments were observed in the southeastern portion of the Site corresponding to gas probes and/or monitoring wells instaklled during previous investigations performed at the Site in the 1990s. These monuments were locked and unable to be opened to confirm, and are not noted on current or historical monitoring well or gas probe location maps for the adjoining landfills.

FIGURES

Legend

Site Location

N

0 500 1,000 2,000 Feet

Site Location Map

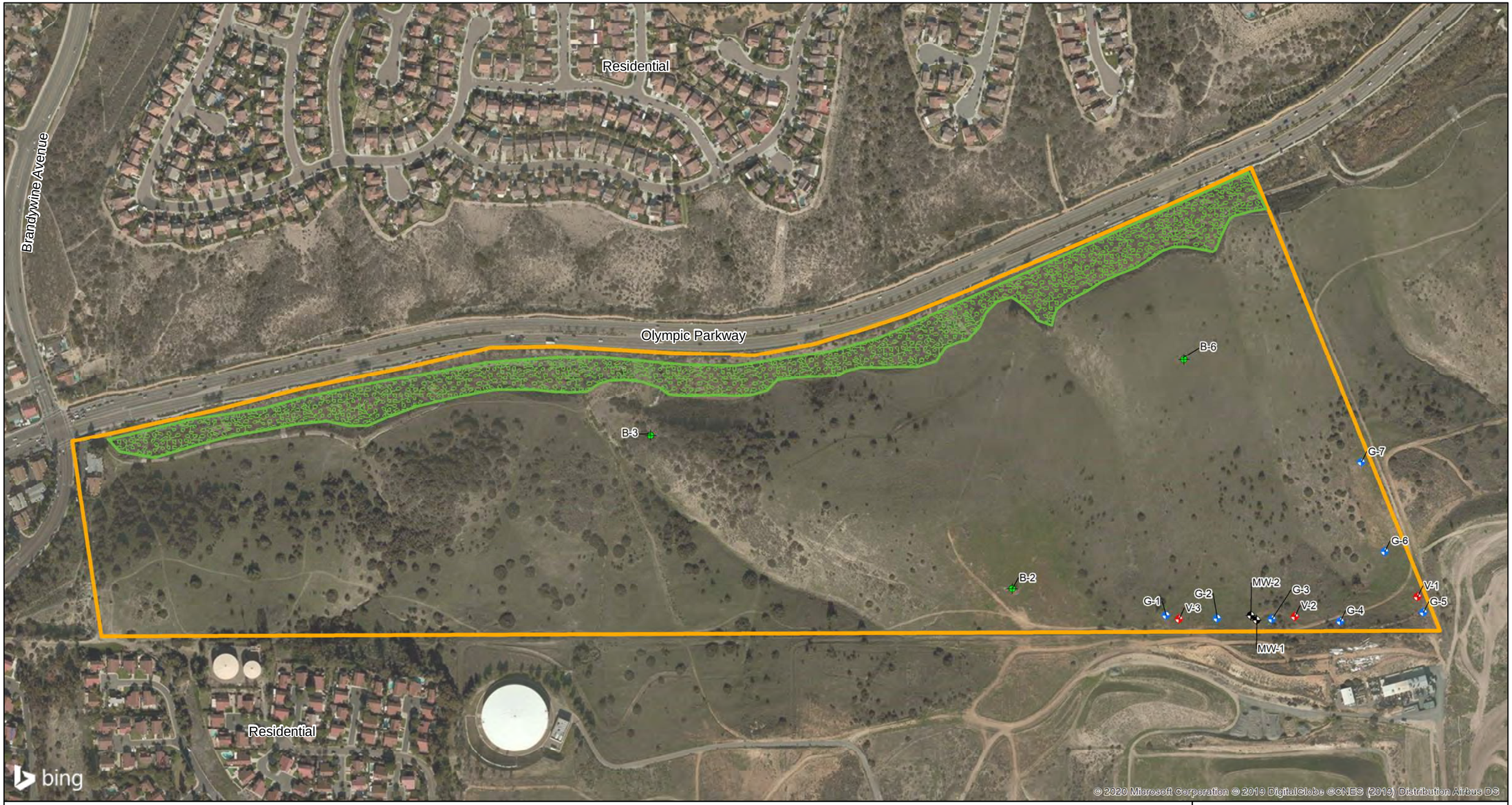
Sunbow Chula Vista,
Chula Vista, California

Geosyntec consultants

SC1029 | January 2020

Figure 1

P:\CAD_GIS\Projects\SC1029_Sunbow Chula Vista\MXDs\Figure 1 Site Location Map.mxd 1/20/2020 5:28:49 AM



Legend

- Boring Location
- Gas Monitoring Well
- Monitoring Well
- Vadose Monitoring Well
- Approximate Site Boundary
- Approximate Wetland Easement

Imagery courtesy of Google Earth, 2018.

Notes:
All locations are approximate.

N

0 300 600 1,200 Feet

Site Layout Map

Sunbow Chula Vista,
Chula Vista, California

Geosyntec consultants

SC1029 | January 2020

Figure 2

P:\CAD_GIS\Projects\SC1029_Sunbow Chula Vista\MXDs\Figure 2 Site Layout Map.mxd 1/20/2020 4:57:23 AM

Legend

Approximate Site Boundary

Approximate Wetland Easement

Imagery courtesy of Google Earth, 2018.

Notes:
All locations are approximate.

N

0 300 600 1,200 Feet

Site Vicinity Map

Sunbow Chula Vista,
Chula Vista, California

Geosyntec consultants

SC1029 | January 2020

Figure 3

P:\CAD_GIS\Projects\SC1029_Sunbow Chula Vista\MXDs\Figure 3 Site Vicintiy Map.mxd 1/17/2020 9:49:13 AM

APPENDIX A

Qualifications of the Environmental Professionals

Geosyntec consultants

VERYL WITTIG, PG, CHG
Senior Principal Hydrogeologist

Environmental Site Assessments
Environmental Liability Valuation
Hazardous Materials Site Investigations
Hydrogeologic Field Investigations
Contaminated Site Mitigation/Remediation
Hazardous Materials Management
Landfill Characterizations and Mitigation
Litigation Support

CAREER SUMMARY

Mr. Wittig possesses a varied background in the geological and environmental sciences and has more than 28 years of diverse experience in planning, conducting, and managing multi-disciplinary due diligence projects involving Phase I Environmental Site Assessments (ESAs), contaminant investigations, vapor intrusion studies, human health risk assessments, engineering feasibility studies, environmental liability evaluations, mitigation of environmentally impaired properties, regulatory coordination, and litigation support for a variety of private and public sector clients.

Environmental Assessment and Due Diligence Services

Mr. Wittig has conducted and/or managed more than 200 Phase I ESAs throughout the USA and Mexico between 1992 and the present in accordance with ASTM standards to evaluate the presence of Recognized Environmental Conditions (RECs) associated with the subject properties. The Phase I ESAs have involved a variety of complexities and property usages ranging from rural native land to highly-impacted industrial properties with more than a century of historical activity. Several of these projects involved linear features such as pipeline or rail corridors, multiple-site portfolios and/or very large acreages. The range of properties assessed includes:

- Electricity generating/transmission facilities
- Petroleum distribution facilities/pipelines
- Aviation/aerospace manufacturing
- Pesticide manufacturing/distribution
- Concrete and asphalt production/distribution
- Agricultural activities, livestock, and dairies
- Commercial wholesale and retail activities
- Biosolids processing and composting
- Schools
- Stadiums
- Industrial manufacturing facilities
- Apparel manufacturing
- Rail and transit facilities
- Mining and aggregate processing
- Plating shops
- Salvage yards
- Dry cleaners
- Service stations
- Landfills and burn dumps
- Former military facilities

Based on the results of Phase I ESAs, additional due diligence services include Phase II site characterizations to assess impacts resulting from historical activities. Activities conducted

include surface geophysical surveys; hazardous materials surveys and abatement (asbestos, lead-based paint, universal waste); soil, soil vapor, groundwater and surface water assessments; vapor intrusion assessments and mitigation; human health risk assessments; feasibility studies; developing estimated site cleanup costs and liability valuation; developing cleanup goals based on the current and/or future intended site usage; strategic project support for development of contaminated properties; regulatory support and coordination; and litigation support.

Examples of the range of due diligence services provided by Mr. Wittig include:

Confidential Home Improvement Retailer, Phase I and Phase II Environmental Site Assessments, Various Locations. Since 2003 Mr. Wittig has provided due diligence services for more than 75 properties comprising Phase I ESAs in accordance with current ASTM E 1527 Standard Practice for ESAs, Phase II site characterizations, hazardous materials abatement, mitigation/remediation, and monitoring and reporting. Projects included single properties to 25 sites throughout 8 states. The services are provided through counsel on a privileged and confidential basis.

Programmatic Due Diligence Services, San Diego Gas & Electric, San Diego County, California. Directs a broad range of due diligence services including Phase I ESAs, Phase II site characterization and vapor intrusion studies, risk assessments, and remediation for existing and future facilities including substations and administrative facilities.

Phase I ESA Portfolio, Foundation Windpower, Four Industrial Facilities Throughout California. To assist in the risk management for construction of four windmill turbines, Mr. Wittig directed four Phase I Environmental Site Assessments on an expedited basis at facilities spanning California. Facilities included an Anheuser Busch brewery, wastewater treatment plant, agricultural packing house, and casino. The scope of work was successfully completed within two weeks.

Sunrise Powerlink, San Diego and Imperial Counties, California. Mr. Wittig directed a Phase I ESA of the 120-mile project alignment to fulfill the compliance requirements in the EIR approved by the California Public Utilities Commission, and was presented in a concise, user-friendly, interactive report. Following completion of the Phase I ESA, Mr. Wittig directed a team of 15 to 20 staff during the completion of numerous Phase I ESA Addenda, Phase II investigations to further investigate RECs identified during the Phase I ESA and evaluate liability associated with documented environmental issues; remediating mitigation properties; and environmental compliance construction monitoring services.

Phase I Environmental Site Assessment and Phase II Site Characterization, Four Corners Generating Station, Southern California Edison, New Mexico. Mr. Wittig directed a comprehensive due diligence assessment for the Four Corners Generating Station (FCGS), a coal-burning power plant located in northwestern New Mexico on land leased by the Navajo Nation. Geosyntec was contracted to perform a suite of due diligence services for the site to evaluate the

potential environmental liabilities associated with the possible sale of the client's interest in the FCGS. Services included a large-scale Phase I ESA for the site, a comprehensive Phase II Site Characterization which included advancement of more than 70 soil borings and collection of groundwater, sediment, and surface water samples. The final report included a comprehensive summary of findings for the due diligence investigation, a site conceptual model based on site specific findings and historical records, and an environmental liability valuation for consideration during the divestiture process.

San Onofre Nuclear Generating Station, Fran and Gary Distribution Facilities, Phase I ESA, Southern California Edison, San Diego County, California. Following closure of the San Onofre Nuclear Generating Station (SONGS), Southern California Edison (SCE) sought to divest certain portions of electrical transmission infrastructure to San Diego Gas & Electric (SDG&E). As a long-time consultant to both parties, Geosyntec was mutually selected to conduct an impartial Phase I ESA of a portion of the SONGS facility. Mr. Wittig directed a Phase I ESA in accordance with ASTM Standard E 1527. Unique considerations included evaluation of groundwater data for radioactivity concerns and evaluation of ongoing decommissioning activities.

Veterans Affairs West Los Angeles Campus, Phase I ESA, Vet's Advocacy, Inc., Los Angeles, California. The VA West LA Campus is an approximately 400-acre property that was established in 1887 as the National Home for Disabled Volunteer Soldiers, and eventually developed as the present-day campus with more than 150 structures, several recreational facilities, numerous parking lots, a college baseball stadium, a portion of a school, a landfill, and an active oil lease. Mr. directed the preparation of a Phase I ESA for the entire campus on an expedited basis.

Due-Diligence Evaluation, Class I Landfill, Central California. Mr. Wittig coordinated a team of engineers and environmental scientists in the due-diligence evaluation for a potential buyer of the active Class I disposal facility. Due diligence efforts included detailed evaluation of the landfill design, LCRS system, remaining airspace, history of regulatory violations, licenses and permits, waste-acceptance procedures, effectiveness of the groundwater monitoring network, annual and lifetime operation and maintenance costs, and pending legal actions by regulatory agencies and opponents of the landfill.

Multiple Turbine Plants, Phase I ESAs, NRG/Dynegy, San Diego County, California. Managed Phase I ESA and Phase II Site Characterization of the former SDG&E gas-fired turbine plants at 32nd Street Naval Station, Naval Air Station North Island, El Cajon, Kearney Mesa, and Miramar on behalf of NRG/Dynegy during pre-acquisition due diligence.

Circuit Board Manufacturing Facility, Poway, California. Mr. Wittig directed a Phase I ESA and compliance evaluation for an operating circuit board manufacturing facility. The facility included evaluation of a 70,600 square-foot structure including plating baths for more than 40 hazardous substances, an intricate secondary containment and sump conveyance system,

wastewater treatment systems, and waste management protocols. Following completion of the property transaction, Mr. Wittig assisted the Europe-based client with regulatory coordination and the process of transferring operational permits from the prior owner.

Otay Mesa Generating Project, Pacific Gas & Electric, San Diego, California. Performed a Phase I ESA to identify potential environmental liabilities associated with the property; coordinated dozens of contractors and local, State and Federal regulatory agencies, and tracked environmental compliance tasks specified by the California Energy Commission. Environmental compliance tracking included biological, cultural and paleontological resources, air and water quality, noise, stormwater management and erosion control, and hazardous materials handling services related to construction and operation of a 510-MW natural-gas-fired power plant.

Phase I/Phase II Environmental Assessments, MTDB Light-Rail Extension, San Diego, CA. Mr. Wittig performed a Phase I ESA to identify potential sources of contamination within a 1,000-foot-wide corridor along a 3.2-mile-long railway right-of-way in downtown San Diego, conducted a Phase II subsurface investigation along the length of the right-of-way and focused on a depressed section of the light-rail extension in an area with significant subsurface hydrocarbon impacts resulting from bulk storage facilities and retail service stations.

Due Diligence-Related Litigation Support Experience

Greenfield MHP Associates, L.P., et al. v. Ametek, Inc., et al. Technical lead in support of testifying expert representing co-defendants in a matter pertaining to the due diligence efforts, and remediation methods and associated costs for chlorinated solvent plume beneath a mobile home park in southern California. Managed review of hundreds of historical documents and worked closely with the testifying expert in the preparation of expert reports

Otay Land Company, et al. v. U.E. Limited, L.P, et al. Technical lead in support of testifying expert represented defendants in a matter pertaining to due diligence efforts, the characterization and remediation related to the nature, extent and costs associated with residual lead, poly-aromatic hydrocarbons and perchlorate at a former trap and skeet range in southern San Diego County.

JMS Acquisition v. Bayfront Plaza, LLC. Represented defendant on issues associated with due diligence, site characterization, and proposed remedial action associated with impacts from former dry-cleaning operations. Prepared expert and rebuttal reports, and deposition testimony.

Confidential Client, Encinitas, CA. Working closely with legal counsel on behalf of the current property owner, performed historical research to identify the responsible party and source of subsurface chlorinated solvent impacts at the site which previous due diligence failed to identify. Subsequently evaluated vapor intrusion concerns, and mitigation/remediation alternatives.

Cashay, LLC, et al v. V.D.M., Inc. et al. Represented defendant with issues associated with due diligence, site characterization, and impacts from former dry-cleaning operation.

Geosyntec consultants

EDUCATION

San Diego State University, B.S., Geological Sciences (Hydrogeology), December 1991

PROFESSIONAL REGISTRATION

California Professional Geologist No. 7115 (2000)
California Certified Hydrogeologist No. 723 (2001)

PROFESSIONAL HISTORY

Geosyntec Consultants, San Diego, California
Senior Hydrogeologist- November 2002 to Senior Principal Hydrogeologist-Present
URS Corporation (formerly Woodward-Clyde Consultants), San Diego, California
Staff Hydrogeologist- January 1992 to Senior Project Hydrogeologist- October 2002
Applied Geosciences, San Diego, California
Intern Geologist, September 1991 - December 1991
Nachant Environmental, San Diego, California
Intern Geologist, June 1990 - September 1991

MILITARY SERVICE

United States Marine Corps – San Diego and Camp Pendleton, California; Okinawa, Japan.
Heavy Equipment Operator, June 1981-June 1985, Honorably Discharged, E-4.

APPENDIX B

Pertinent Site Documents

Geosyntec consultants

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FAX 858.674.6586
www.geosyntec.com

Memorandum

Date: 20 February 2020

To: Jennifer Chavez, Sheppard, Mullin, Richter & Hampton LLP

From: Veryl Wittig, PG, CHG, Geosyntec Consultants

Subject: Soil Vapor Investigation Summary
Sunbow Proposed Development
Chula Vista, California

Geosyntec has prepared this technical memorandum (memo) summarizing the results of the limited soil vapor investigation conducted at the approximately 136-acre property comprised of two parcels in the City of Chula Vista with Assessor's Parcel Numbers 644-011-06-00 and 644-020-11-00 (i.e., the "site"; Figure 1). The investigation was conducted in support of Lennar's pre-purchase due diligence process, and was conducted to address potential environmental concerns related to the operating Republic Services Otay Mesa Class III Landfill located adjoining south and southeast of the site (Figure 2). The potential environmental concerns were identified during a Phase I Environmental Site Assessment (ESA) recently conducted for the site.

BACKGROUND AND OBJECTIVE

Portions of the Otay Class III Landfill adjoin the site to the south and southeast, and the Otay Class III landfill surrounds the adjoining Otay Class I Landfill (Figure 2). Both the Class I and Class III landfills have groundwater monitoring networks, which are monitored semiannually under orders issued by the San Diego Regional Water Quality Control Board (SDRWQCB). Groundwater flow at both landfills is generally to the south-southwest away from the site, and there are no indications of groundwater impacts beneath the site attributable to the two adjoining landfills. The Class III landfill is equipped with a landfill gas control system (LFGCS) and a perimeter probe monitoring network that is routinely monitored under the direction of the County of San Diego Local Enforcement Agency (LEA). Methane has not been detected above 1% by volume at the perimeter probes closest to the Site.

A draft Phase I Environmental Site Assessment (ESA) was prepared for the site in January 2020, which revealed no evidence of recognized environmental conditions (RECs) in connection with the site. However, the following REC was identified in the draft Phase I ESA report:

"Historical investigations performed in the 1990s to assess potential impacts to the site from the adjoining landfill properties identified subsurface methane which had migrated beneath the site

from the Class III landfill at concentrations up to 3,300 parts per million (ppm) methane, which is more than an order of magnitude lower than the lower explosive limit (LEL) of methane (50,000 ppm, or 5% by volume). As required by Title 27 of the California Code of Regulations, the landfill owner/operator is required to install and operate a LFGCS and install and monitor a network of perimeter monitoring probes. Operation of the LFGCS at the adjoining Class III landfill is ongoing, and methane has not been detected above 1% by volume at perimeter probes closest to the site, and has been detected at concentrations of 0.10% in only two probes since January 2018. Therefore, the engineering controls on the adjoining Class III landfill property appear to be effectively controlling subsurface methane migration from the landfill property to the site."

The absence of recent soil vapor data for the site was noted as a data gap in the draft Phase I ESA. Available data for the Class III landfill perimeter monitoring network indicates that gas concentrations at the landfill boundary adjoining the site are below regulatory thresholds, and historical data collected at the site in the 1990s indicated that the methane LEL in the subsurface was not exceeded. However, recent data regarding the potential presence of volatile organic compounds (VOCs; e.g., benzene, tetrachloroethene [PCE], trichloroethene [TCE]) commonly associated with landfill gas are not available to evaluate potential vapor intrusion concerns for future structures planned for construction at the site. Therefore, the objective of the investigation described herein was to address this data gap by conducting a soil vapor survey at the site to evaluate current onsite subsurface soil vapor conditions and potential subsurface impacts attributable to the adjoining Otay Class III landfill.

METHODOLOGY

Temporary Soil Vapor Probe Construction

Five triple-nested soil vapor probes (SVPs) were constructed using a track-mounted direct-push drilling rig on 24 January 2020 near the perimeter of the property, where the site adjoins the Otay Class III landfill (Figure 3). The triple-nested SVPs were constructed inside 2-inch diameter borings with probes at 5 and 10 feet below ground surface (ft bgs). Four of the five SVPs (SVP-1 through SVP-4) had their deepest probe installed at 19.5 ft bgs. Due to refusal encountered at a depth of 15 feet in SVP-5, the deepest probe at that location was 15 ft bgs.

Each probe interval consists of a 6-inch long by ½-inch diameter stainless-steel-screened vapor probe with dedicated ¼-inch Teflon tubing extending to the ground surface. An approximately 1-foot interval of the borehole surrounding the probe (i.e., approximately 3 inches above and below the vapor probe screen) was backfilled with clean #3 sand. Approximately 6 inches of dry granular bentonite was placed above the sand layer, followed by placement of hydrated bentonite to create a seal between the probe intervals. The remainder of the borehole above the upper probe interval at each location was backfilled with hydrated granular bentonite to the surface.

Soil Vapor Sampling Methodology

The SVPs were sampled on 27 January 2020 in general accordance with the current State of California Department of Toxic Substances Control (DTSC) Advisory for Active Soil Gas Investigations (DTSC Advisory) [DTSC, 2015]. Leak checks involving "shut-in" and tracer tests were performed using a conservative tracer gas (e.g. helium) to monitor that fittings in the sampling train did not leak at an applied vacuum of up to 100 inches of water column. After leak checks were performed (and any leaks detected were remedied), three 'dead space' pore volumes were purged prior to sample collection. Field screening of vapor samples to assess subsurface fixed gas concentrations (i.e., methane, oxygen, and carbon dioxide) was conducted using a LANDTEC® GEM5000 landfill gas monitor.

Soil-vapor samples were collected in 1-Liter Tedlar® bags and forwarded to Eurofins Calscience, Inc. (Calscience) of Garden Grove, California, a California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory. Samples were analyzed for VOCs by United States Environmental Protection Agency (EPA) Method TO-15, and for fixed gases (methane, carbon dioxide, carbon monoxide, nitrogen, and oxygen + argon) by EPA Method D1946.

RESULTS

Constituents detected in soil vapor samples collected during the investigation are summarized in Table 1, and the associated laboratory analytical report is included as Attachment 1. Detected constituents were compared to San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Tier 1 Environmental Screening Levels for Residential Sub-slab / Soil Gas (Tier 1 ESLs) [SFBRWQCB, 2019]. These screening levels are based on an excess lifetime cancer risk (ELCR) of "one-in-a-million" (denoted as $1x10^{-6}$) as an acceptable risk level, and were derived based on a generic conservative conceptual site model designed for use at most sites for site screening purposes. If a Tier 1 ESL has not been established for a given analyte, then the analytes were compared to their respective EPA Regional Screening Levels (RSLs) for indoor air quality in a residential setting [EPA, 2019]. To calculate an EPA RSL for sub-slab / subsurface soil vapor using the EPA RSL for residential indoor air, the conservative default 0.03 attenuation factor (recently adopted for use by the SFBRWQCB) was applied. To calculate an EPA RSL, the 0.03 attenuation factor is divided into the analyte's RSL for indoor air. For example, the EPA RSL for TCE in residential indoor air is 0.48 $\mu g/m^3$. Applying the conservative default attenuation factor of 0.03 results in an EPA RSL of 16 $\mu g/m^3$ for samples collected from sub-slab / subsurface soil vapor. Similar to Tier 1 ESLs, the 0.03 attenuation factor is generally applied for conservative site screening purposes to determine if additional assessment is warranted.

In general, the presence of a constituent in soil vapor at a concentration below the Tier I ESLs can be assumed to not pose a significant health risk for residential receptors. Likewise, the presence of a constituent in soil vapor at a concentration above the Tier I ESLs does not indicate that adverse

impacts to human health are occurring or will occur in the future, but may indicate that additional evaluation of potential risk to human health is warranted.

The following analytes were detected during the investigation in excess of their respective Tier 1 ESL or EPA RSL (using the conservative default 0.03 attenuation factor) for soil vapor samples collected at the site:

- Benzene was detected above the Tier 1 ESL of 3.2 micrograms per cubic meter ($\mu g/m^3$) in six samples, at concentrations ranging from 3.9 $\mu g/m^3$ (SVP1-19.5) to 20 $\mu g/m^3$ (SVP3-19.5);
- Bromodichloromethane was detected above the Tier 1 ESL of 2.5 $\mu g/m^3$ in one sample, at a concentration of 5.3 $\mu g/m^3$ (SVP3-19.5);
- Chloroform was detected above the Tier 1 ESL of 2.4 $\mu g/m^3$ in one sample, at a concentration of 7.0 $\mu g/m^3$ (SVP3-19.5); and
- Vinyl chloride was detected above the Tier 1 ESL of 0.32 $\mu g/m^3$ in one sample, at a concentration of 1.8 $\mu g/m^3$ (SVP1-5).

Methane was not detected in samples above the laboratory screening level, and was not detected during field screening, indicating that the LFGCS is effectively controlling offsite migration of methane from the landfill.

DISCUSSION

The analytes noted above were detected at concentrations marginally exceeding their respective Tier 1 ESLs or EPA RSLs for sub-slab/subsurface soil vapor in a residential site scenario. However, these screening levels do not account for additional attenuation with depth into the soil column, quality of the overlying concrete slab, or other site-specific factors, and are therefore overly conservative for use at the site. Instead, comparison to default DTSC screening levels (SLs) for future residential structures is more appropriate. Default DTSC-SLs for preliminary screening evaluations differentiate between samples collected from the interval immediately below the slab and samples collected from SVPs screened within the vadose zone, because VOCs in soil vapor at depth are additionally inhibited from upward migration due to inherent properties of the overlying soils (such as permeability and moisture content). Further, the DTSC-SLs for future residential structures more appropriately account for additional attenuation resulting from the use of modern construction methods, earthwork/grading activities, and new, competent concrete slab pours.

Recent communication with DTSC indicates that DTSC intends to continue to recommend use of their default attenuation factor of 0.001 for the subsurface-to-indoor pathway for new residential construction [DTSC, 2011]. To calculate a DTSC-SL for future residential structures, this attenuation factor is applied to the corresponding DTSC-modified screening levels for residential indoor air, many of which (including benzene) are modified to be additionally conservative

compared to EPA RSLs. The calculated default DTSC-SLs for subsurface soil vapor are as follows:

Constituent	Residential Ambient Air Screening Level (µg/m^3)	DTSC Recommended Future Residential Attenuation Factor	DTSC-SL for Subsurface Soil Vapor Future Residential Scenario (µg/m^3)
Benzene	0.097	0.001	97
Bromodichloromethane	0.076	0.001	76
Chloroform	0.12	0.001	120
Vinyl Chloride	0.0095	0.001	9.5

Using the DTSC-recommended default attenuation factors, no analytes were detected in excess of the calculated DTSC-SLs for subsurface soil vapor beneath future residential structures.

Methane was not detected at measurable concentrations during the investigation. It is Geosyntec's understanding that the City of Chula Vista does not currently have building standards that require building protection systems (such as a vapor barrier with passive sub-slab ventilation) for the new construction of occupied structures within 1,000 feet of a Class III landfill.

SUMMARY AND CONCLUSIONS

The soil vapor investigation conducted on 24 and 27 January 2020 documented methane was not detected in the samples, indicating that the LFGCS is effectively controlling the migration of methane from the adjoining Class III landfill. Low-level concentrations of VOCs were detected in soil vapor samples collected at the site, including four analytes detected in one or more samples at concentrations at concentrations above their respective Tier 1 ESLs or EPA RSLs for a residential site scenario. However, none of these analyte concentrations exceeded calculated DTSC-SLs for future residential construction. Therefore, with the understanding that the adjoining Class III landfill owner/operator will continue to operate the LFGCS in accordance with Title 27 requirements, future earth-moving activities in preparation for site development and construction will likely result in dissipation of residual VOC concentrations in shallow soil vapor, and future structures will be constructed using modern building practices with competent concrete slabs, there is no apparent unacceptable risk to future residential site occupants due to methane and/or VOC-impacted soil vapor.

* * * * *

REFERENCES:

DTSC, 2011. *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air*. October.

DTSC, 2015. *Advisory for Active Soil Gas Investigations California Environmental Protection Agency Department of Toxic Substances Control*. July.

DTSC, 2019. *Human Health Risk Assessment Note 3 – DTSC-Modified Screening Levels (DTSC-SLs), April 2019 Update*. April.

EPA, 2019. *Regional Screening Level (RSL) Composite Worker Ambient Air Table (TR=1E-06, HQ=1)*. November.

SFBRWQCB, 2019. *San Francisco Bay Regional Water Quality Control Board Tier 1 Environmental Screening Levels, 2019 (Rev. 2)*.

ATTACHMENTS:

Table 1 – Summary of Soil Vapor Sample Detections

Figure 1 – Site Location
Figure 2 – Site Vicinity Map
Figure 3 – Soil Vapor Probe Locations

Attachment 1 – Laboratory Analytical Report

cc: Ryan Green, Lennar
David Shepherd, Lennar

Table 1
Summary of Soil Vapor Sample Detections
Sunbow Proposed Development
Chula Visa, California

Analyte	RL	SFBRWQCB SL	DTSC-SL	Units	SVP1-5	SVP1-10	SVP1-19.5	SVP2-5	SVP2-10	SVP2-19.5	SVP3-5	SVP3-10	SVP3-19.5	SVP4-5	SVP4-10	SVP4-19.5	SVP5-5	SVP5-10	SVP5-15
1,3,5-Trimethylbenzene	2.5	2100	63000	µg/m^3	ND	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	4.4	170000	5200000	µg/m^3	16	19	14	11	10	9.3	8.0	9.6	10	12	14	10	14	14	13
4-Ethyltoluene	2.5	NE	NE	µg/m^3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36	ND	ND	ND	ND
Acetone	12	1066667	32000000	µg/m^3	77	66	48	48	37	35	47	46	48	45	62	57	48	50	42
Benzene	1.6	3.2	97	µg/m^3	**4.2**	**5.8**	**3.9**	2.3	ND	ND	2.4	**3.7**	**20**	2.3	2.5	**9.4**	ND	ND	ND
Bromodichloromethane	3.4	2.5	76	µg/m^3	ND	ND	ND	ND	ND	ND	ND	ND	**5.3**	ND	ND	ND	ND	ND	ND
Carbon disulfide	16	2433	730000	µg/m^3	16	26	ND	ND	ND	ND	ND	ND	44	ND	ND	25	ND	ND	ND
Chloroform	2.4	4.1	120	µg/m^3	ND	ND	ND	3.7	2.5	ND	ND	ND	**7.0**	2.8	ND	3.2	ND	ND	ND
Chloromethane	1.0	3100	94000	µg/m^3	ND	1.1	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	2.8	3333	100000	µg/m^3	2.8	7.4	10	10	11	12	2.5	ND	7.8	13	8.5	14	5.5	7.0	6.8
Ethylbenzene	2.8	37	1100	µg/m^3	2.8	3.2	ND	4.8	ND	ND	ND	3.5	7.0	ND	2.8	3.1	ND	ND	ND
o-Xylene	2.2	3333	100000	µg/m^3	3.5	3.5	ND	6.5	ND	ND	ND	4.1	20	2.3	ND	2.7	ND	2.2	ND
m,p-Xylene	8.7	3333	100000	µg/m^3	ND	ND	ND	18	ND	ND	ND	11	27.0	ND	ND	ND	ND	ND	ND
Total Xylenes	-	3500	100000	µg/m^3	3.5	3.5	ND	24.5	ND	ND	ND	15.1	47.0	2.3	ND	2.7	ND	2.2	ND
Tetrachloroethene	3.4	15	2000	µg/m^3	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	26	10000	310000	µg/m^3	26	27	22	28	ND	ND	20	28	53	24	250	27	ND	20	ND
Vinyl Chloride	1.3	0.32	9.5	µg/m^3	**1.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Dioxide	0.5	NE	NE	% v/v	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	0.82	1.3	0.67	ND	ND
Methane	0.5	NE	NE	% v/v	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrogen	0.5	NE	NE	% v/v	76	78	76	78	78	77	79	78	77	77	78	76	76	77	76
Oxygen + Argon	0.5	NE	NE	% v/v	23	24	23	23	23	22	21	21	21	21	22	21	22	23	22

Notes:

SFBRWQCB SLs - San Francisco Regional Water Quality Control Board (SFBRWQCB) Tier 1 (residential) Environmental Screening Levels (ESLs) for sub-slab / soil vapor, based on a generic conceptual site model designed for use at most sites. USEPA Regional Screening Levels (RSLs) for residential sub-slab / soil vapor (April 2019) used where no Tier 1 ESL has been established. USEPA RSLs were calculated by dividing the RSL for residential indoor air quality by the conservative default 0.03 attenuation factor.

DTSC-SL - California Department of Toxic Substances Control (DTSC) screening level for future residential structures, calculated by applying the default 0.001 attenuation factor for future residential construction to the DTSC modified screening level for residential indoor air or the USEPA RSL for residential indoor air, whichever is more conservative.

Values in **bold** were detected above the SFBRWQCB SL but below the DTSC-SL

RL - laboratory reporting limit

µg/m^3- micrograms per cubic meter

% v/v - percent volume per volume

NE indicates there is not an established SFBRWQCB ESL, USEPA RSL, or DTSC-SL for this analyte

ND indicates compound was not detected at the laboratory reporting limit (RL)

Samples were analyzed for volatile organic compounds (57 compounds) by USEPA Method TO-15

Only analytes detected in one or more sample above the RL are shown

Legend

Site Location

N

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

0 500 1,000 2,000 Feet

Site Location Map

Sunbow Chula Vista,
Chula Vista, California

Geosyntec consultants

SC1029 | January 2020

Figure 1

P:\CAD_GIS\Projects\SC1029_Sunbow Chula Vista\MXDs\Figure 1 Site Location Map.mxd 1/10/2020 12:07:16 PM

Legend

Approximate Site Boundary

Approximate Wetland Easement

Imagery courtesy of Google Earth, 2018.

Notes:
All locations are approximate.

N

0 300 600 1,200 Feet

Site Vicinity Map

Sunbow Chula Vista,
Chula Vista, California

Geosyntec consultants

SC1029 | January 2020

Figure 2

P:\CAD_GIS\Projects\SC1029_Sunbow Chula Vista\MXDs\Figure 3 Site Vicintiy Map.mxd 1/17/2020 9:49:13 AM

Soil Vapor Probe Locations

Sunbow Development
APNs 644-011-06-00 and 644-020-11-00
Chula Vista, California

Geosyntec consultants

SC1029	January 2020	Figure 3

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-19024-1
Client Project/Site: SC1029-02
Revision: 1

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Christopher Lieder

Authorized for release by:
1/30/2020 10:50:58 AM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 570-19024-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-19024-1

Comments
No additional comments.

Receipt
The samples were received on 1/27/2020 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0º C.

Air Toxics
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Client Sample ID: SVP1-5 — Lab Sample ID: 570-19024-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	16		4.4	ug/m3	1		TO-15	Total/NA
Acetone	77		12	ug/m3	1		TO-15	Total/NA
Benzene	4.2		1.6	ug/m3	1		TO-15	Total/NA
Carbon disulfide	16		16	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.8		2.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.8		2.2	ug/m3	1		TO-15	Total/NA
o-Xylene	3.5		2.2	ug/m3	1		TO-15	Total/NA
Toluene	26		19	ug/m3	1		TO-15	Total/NA
Vinyl chloride	1.8		1.3	ug/m3	1		TO-15	Total/NA
Nitrogen	76		0.50	% v/v	1		D1946	Total/NA
Oxygen + Argon	23		0.50	% v/v	1		D1946	Total/NA
Nitrogen	77		0.50	% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	23		0.50	% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP1-10 — Lab Sample ID: 570-19024-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	19		4.4	ug/m3	1		TO-15	Total/NA
Acetone	66		12	ug/m3	1		TO-15	Total/NA
Benzene	5.8		1.6	ug/m3	1		TO-15	Total/NA
Carbon disulfide	26		16	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	7.4		2.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.2		2.2	ug/m3	1		TO-15	Total/NA
o-Xylene	3.5		2.2	ug/m3	1		TO-15	Total/NA
Toluene	27		19	ug/m3	1		TO-15	Total/NA
Nitrogen	78		0.50	% v/v	1		D1946	Total/NA
Oxygen + Argon	24		0.50	% v/v	1		D1946	Total/NA
Nitrogen	77		0.50	% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	23		0.50	% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP1-19.5 — Lab Sample ID: 570-19024-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	14		4.4	ug/m3	1		TO-15	Total/NA
Acetone	48		12	ug/m3	1		TO-15	Total/NA
Benzene	3.9		1.6	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	10		2.5	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.5		3.4	ug/m3	1		TO-15	Total/NA
Toluene	22		19	ug/m3	1		TO-15	Total/NA
Nitrogen	76		0.50	% v/v	1		D1946	Total/NA
Oxygen + Argon	23		0.50	% v/v	1		D1946	Total/NA
Nitrogen	77		0.50	% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	23		0.50	% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP2-5 — Lab Sample ID: 570-19024-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	2.9		2.5	ug/m3	1		TO-15	Total/NA
2-Butanone	11		4.4	ug/m3	1		TO-15	Total/NA
Acetone	48		12	ug/m3	1		TO-15	Total/NA
Benzene	2.3		1.6	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Client Sample ID: SVP2-5 (Continued) — Lab Sample ID: 570-19024-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloroform	3.7		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	10		2.5		ug/m3	1		TO-15	Total/NA
Ethylbenzene	4.8		2.2		ug/m3	1		TO-15	Total/NA
o-Xylene	6.5		2.2		ug/m3	1		TO-15	Total/NA
m,p-Xylene	18		8.7		ug/m3	1		TO-15	Total/NA
Toluene	28		19		ug/m3	1		TO-15	Total/NA
Nitrogen	78		0.50		% v/v	1		D1946	Total/NA
Oxygen + Argon	23		0.50		% v/v	1		D1946	Total/NA
Nitrogen	78		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	22		0.50		% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP2-10 — Lab Sample ID: 570-19024-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
2-Butanone	10		4.4		ug/m3	1		TO-15	Total/NA
Acetone	37		12		ug/m3	1		TO-15	Total/NA
Chloroform	2.5		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	11		2.5		ug/m3	1		TO-15	Total/NA
Nitrogen	78		0.50		% v/v	1		D1946	Total/NA
Oxygen + Argon	23		0.50		% v/v	1		D1946	Total/NA
Nitrogen	78		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	22		0.50		% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP2-19.5 — Lab Sample ID: 570-19024-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
2-Butanone	9.3		4.4		ug/m3	1		TO-15	Total/NA
Acetone	35		12		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	12		2.5		ug/m3	1		TO-15	Total/NA
Nitrogen	77		0.50		% v/v	1		D1946	Total/NA
Oxygen + Argon	22		0.50		% v/v	1		D1946	Total/NA
Nitrogen	78		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	22		0.50		% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP3-5 — Lab Sample ID: 570-19024-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
2-Butanone	8.0		4.4		ug/m3	1		TO-15	Total/NA
Acetone	47		12		ug/m3	1		TO-15	Total/NA
Benzene	2.4		1.6		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		2.5		ug/m3	1		TO-15	Total/NA
Toluene	20		19		ug/m3	1		TO-15	Total/NA
Nitrogen	79		0.50		% v/v	1		D1946	Total/NA
Oxygen + Argon	21		0.50		% v/v	1		D1946	Total/NA
Nitrogen	79		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	21		0.50		% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP3-10 — Lab Sample ID: 570-19024-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
2-Butanone	9.6		4.4		ug/m3	1		TO-15	Total/NA
Acetone	46		12		ug/m3	1		TO-15	Total/NA
Benzene	3.7		1.6		ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Client Sample ID: SVP3-10 (Continued) — Lab Sample ID: 570-19024-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	3.5		2.2	ug/m3	1		TO-15	Total/NA
o-Xylene	4.1		2.2	ug/m3	1		TO-15	Total/NA
m,p-Xylene	11		8.7	ug/m3	1		TO-15	Total/NA
Toluene	28		19	ug/m3	1		TO-15	Total/NA
Nitrogen	78		0.50	% v/v	1		D1946	Total/NA
Oxygen + Argon	21		0.50	% v/v	1		D1946	Total/NA
Nitrogen	79		0.50	% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	21		0.50	% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP3-19.5 — Lab Sample ID: 570-19024-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	10		4.4	ug/m3	1		TO-15	Total/NA
Acetone	48		12	ug/m3	1		TO-15	Total/NA
Benzene	20		1.6	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	5.3		3.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	44		16	ug/m3	1		TO-15	Total/NA
Chloromethane	7.0		1.0	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		2.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	7.8		2.2	ug/m3	1		TO-15	Total/NA
o-Xylene	7.0		2.2	ug/m3	1		TO-15	Total/NA
m,p-Xylene	20		8.7	ug/m3	1		TO-15	Total/NA
Toluene	53		19	ug/m3	1		TO-15	Total/NA
Nitrogen	77		0.50	% v/v	1		D1946	Total/NA
Oxygen + Argon	21		0.50	% v/v	1		D1946	Total/NA
Nitrogen	78		0.50	% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	22		0.50	% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP4-5 — Lab Sample ID: 570-19024-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	12		4.4	ug/m3	1		TO-15	Total/NA
Acetone	45		12	ug/m3	1		TO-15	Total/NA
Benzene	2.3		1.6	ug/m3	1		TO-15	Total/NA
Chloroform	2.8		2.4	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	13		2.5	ug/m3	1		TO-15	Total/NA
o-Xylene	2.3		2.2	ug/m3	1		TO-15	Total/NA
Toluene	24		19	ug/m3	1		TO-15	Total/NA
Carbon dioxide	1.1		0.50	% v/v	1		D1946	Total/NA
Nitrogen	77		0.50	% v/v	1		D1946	Total/NA
Oxygen + Argon	21		0.50	% v/v	1		D1946	Total/NA
Carbon dioxide	1.1		0.50	% v/v	1		Fixed Gas Norm	Total/NA
Nitrogen	77		0.50	% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	22		0.50	% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP4-10 — Lab Sample ID: 570-19024-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	14		4.4	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	36		2.5	ug/m3	1		TO-15	Total/NA
Acetone	62		12	ug/m3	1		TO-15	Total/NA
Benzene	2.5		1.6	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVP4-10 (Continued) — Lab Sample ID: 570-19024-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	8.5		2.5		ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.8		2.2		ug/m3	1		TO-15	Total/NA
Toluene	250		19		ug/m3	1		TO-15	Total/NA
Carbon dioxide	0.82		0.50		% v/v	1		D1946	Total/NA
Nitrogen	78		0.50		% v/v	1		D1946	Total/NA
Oxygen + Argon	22		0.50		% v/v	1		D1946	Total/NA
Carbon dioxide	0.82		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Nitrogen	77		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	22		0.50		% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP4-19.5 — Lab Sample ID: 570-19024-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
2-Butanone	10		4.4		ug/m3	1		TO-15	Total/NA
Acetone	57		12		ug/m3	1		TO-15	Total/NA
Benzene	9.4		1.6		ug/m3	1		TO-15	Total/NA
Carbon disulfide	25		16		ug/m3	1		TO-15	Total/NA
Chloroform	3.2		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	14		2.5		ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.1		2.2		ug/m3	1		TO-15	Total/NA
o-Xylene	2.7		2.2		ug/m3	1		TO-15	Total/NA
Toluene	27		19		ug/m3	1		TO-15	Total/NA
Carbon dioxide	1.3		0.50		% v/v	1		D1946	Total/NA
Nitrogen	76		0.50		% v/v	1		D1946	Total/NA
Oxygen + Argon	21		0.50		% v/v	1		D1946	Total/NA
Carbon dioxide	1.3		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Nitrogen	78		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	21		0.50		% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP5-5 — Lab Sample ID: 570-19024-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
2-Butanone	14		4.4		ug/m3	1		TO-15	Total/NA
Acetone	48		12		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	5.5		2.5		ug/m3	1		TO-15	Total/NA
Carbon dioxide	0.67		0.50		% v/v	1		D1946	Total/NA
Nitrogen	76		0.50		% v/v	1		D1946	Total/NA
Oxygen + Argon	22		0.50		% v/v	1		D1946	Total/NA
Carbon dioxide	0.68		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Nitrogen	77		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	22		0.50		% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP5-10 — Lab Sample ID: 570-19024-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
2-Butanone	14		4.4		ug/m3	1		TO-15	Total/NA
Acetone	50		12		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	7.0		2.5		ug/m3	1		TO-15	Total/NA
o-Xylene	2.2		2.2		ug/m3	1		TO-15	Total/NA
Toluene	20		19		ug/m3	1		TO-15	Total/NA
Nitrogen	77		0.50		% v/v	1		D1946	Total/NA
Oxygen + Argon	23		0.50		% v/v	1		D1946	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Client Sample ID: SVP5-10 (Continued) — Lab Sample ID: 570-19024-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Nitrogen	77		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	23		0.50		% v/v	1		Fixed Gas Norm	Total/NA

Client Sample ID: SVP5-15 — Lab Sample ID: 570-19024-15

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
2-Butanone	13		4.4		ug/m3	1		TO-15	Total/NA
Acetone	42		12		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	6.8		2.5		ug/m3	1		TO-15	Total/NA
Nitrogen	76		0.50		% v/v	1		D1946	Total/NA
Oxygen + Argon	22		0.50		% v/v	1		D1946	Total/NA
Nitrogen	77		0.50		% v/v	1		Fixed Gas Norm	Total/NA
Oxygen + Argon	23		0.50		% v/v	1		Fixed Gas Norm	Total/NA

This Detection Summary does not include radiochemical test results.

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: SVP1-5
Date Collected: 01/27/20 14:05
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-1
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/28/20 20:19	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/28/20 20:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/28/20 20:19	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/28/20 20:19	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/28/20 20:19	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/28/20 20:19	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/28/20 20:19	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/28/20 20:19	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/28/20 20:19	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/28/20 20:19	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/28/20 20:19	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 20:19	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/28/20 20:19	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/28/20 20:19	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/28/20 20:19	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 20:19	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 20:19	1
2-Butanone	**16**		4.4	ug/m3			01/28/20 20:19	1
2-Hexanone	ND		6.1	ug/m3			01/28/20 20:19	1
4-Ethyltoluene	ND		2.5	ug/m3			01/28/20 20:19	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/28/20 20:19	1
Acetone	**77**		12	ug/m3			01/28/20 20:19	1
Benzene	**4.2**		1.6	ug/m3			01/28/20 20:19	1
Benzyl chloride	ND		7.8	ug/m3			01/28/20 20:19	1
Bromodichloromethane	ND		3.4	ug/m3			01/28/20 20:19	1
Bromoform	ND		5.2	ug/m3			01/28/20 20:19	1
Bromomethane	ND		1.9	ug/m3			01/28/20 20:19	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 20:19	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/28/20 20:19	1
Carbon disulfide	**16**		16	ug/m3			01/28/20 20:19	1
Carbon tetrachloride	ND		3.1	ug/m3			01/28/20 20:19	1
Chlorobenzene	ND		2.3	ug/m3			01/28/20 20:19	1
Chloroethane	ND		1.3	ug/m3			01/28/20 20:19	1
Chloroform	ND		2.4	ug/m3			01/28/20 20:19	1
Chloromethane	ND		1.0	ug/m3			01/28/20 20:19	1
Dibromochloromethane	ND		4.3	ug/m3			01/28/20 20:19	1
Dichlorodifluoromethane	**2.8**		2.5	ug/m3			01/28/20 20:19	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/28/20 20:19	1
Ethylbenzene	**2.8**		2.2	ug/m3			01/28/20 20:19	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/28/20 20:19	1
Isopropanol	ND		120	ug/m3			01/28/20 20:19	1
Methylene Chloride	ND		17	ug/m3			01/28/20 20:19	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/28/20 20:19	1
n-Butylbenzene	ND		8.2	ug/m3			01/28/20 20:19	1
o-Xylene	**3.5**		2.2	ug/m3			01/28/20 20:19	1
m,p-Xylene	ND		8.7	ug/m3			01/28/20 20:19	1
sec-Butylbenzene	ND		8.2	ug/m3			01/28/20 20:19	1
Styrene	ND		6.4	ug/m3			01/28/20 20:19	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 20:19	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP1-5
Date Collected: 01/27/20 14:05
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-1
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/28/20 20:19	1
tert-Butylbenzene	ND		8.2	ug/m3			01/28/20 20:19	1
Tetrachloroethene	ND		3.4	ug/m3			01/28/20 20:19	1
Toluene	**26**		19	ug/m3			01/28/20 20:19	1
Trichloroethene	ND		2.7	ug/m3			01/28/20 20:19	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/28/20 20:19	1
Vinyl acetate	ND		7.0	ug/m3			01/28/20 20:19	1
Vinyl chloride	**1.8**		1.3	ug/m3			01/28/20 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*47 - 137*		*01/28/20 20:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*57 - 129*		*01/28/20 20:19*	*1*
Toluene-d8 (Surr)	*102*		*78 - 156*		*01/28/20 20:19*	*1*

Client Sample ID: SVP1-10
Date Collected: 01/27/20 14:25
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-2
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/28/20 17:53	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/28/20 17:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/28/20 17:53	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/28/20 17:53	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/28/20 17:53	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/28/20 17:53	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/28/20 17:53	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/28/20 17:53	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/28/20 17:53	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/28/20 17:53	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/28/20 17:53	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 17:53	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/28/20 17:53	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/28/20 17:53	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/28/20 17:53	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 17:53	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 17:53	1
2-Butanone	**19**		4.4	ug/m3			01/28/20 17:53	1
2-Hexanone	ND		6.1	ug/m3			01/28/20 17:53	1
4-Ethyltoluene	ND		2.5	ug/m3			01/28/20 17:53	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/28/20 17:53	1
Acetone	**66**		12	ug/m3			01/28/20 17:53	1
Benzene	**5.8**		1.6	ug/m3			01/28/20 17:53	1
Benzyl chloride	ND		7.8	ug/m3			01/28/20 17:53	1
Bromodichloromethane	ND		3.4	ug/m3			01/28/20 17:53	1
Bromoform	ND		5.2	ug/m3			01/28/20 17:53	1
Bromomethane	ND		1.9	ug/m3			01/28/20 17:53	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 17:53	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/28/20 17:53	1
Carbon disulfide	**26**		16	ug/m3			01/28/20 17:53	1
Carbon tetrachloride	ND		3.1	ug/m3			01/28/20 17:53	1
Chlorobenzene	ND		2.3	ug/m3			01/28/20 17:53	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP1-10
Date Collected: 01/27/20 14:25
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-2
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.3	ug/m3			01/28/20 17:53	1
Chloroform	ND		2.4	ug/m3			01/28/20 17:53	1
Chloromethane	**1.1**		1.0	ug/m3			01/28/20 17:53	1
Dibromochloromethane	ND		4.3	ug/m3			01/28/20 17:53	1
Dichlorodifluoromethane	**7.4**		2.5	ug/m3			01/28/20 17:53	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/28/20 17:53	1
Ethylbenzene	**3.2**		2.2	ug/m3			01/28/20 17:53	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/28/20 17:53	1
Isopropanol	ND		120	ug/m3			01/28/20 17:53	1
Methylene Chloride	ND		17	ug/m3			01/28/20 17:53	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/28/20 17:53	1
n-Butylbenzene	ND		8.2	ug/m3			01/28/20 17:53	1
o-Xylene	**3.5**		2.2	ug/m3			01/28/20 17:53	1
m,p-Xylene	ND		8.7	ug/m3			01/28/20 17:53	1
sec-Butylbenzene	ND		8.2	ug/m3			01/28/20 17:53	1
Styrene	ND		6.4	ug/m3			01/28/20 17:53	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 17:53	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/28/20 17:53	1
tert-Butylbenzene	ND		8.2	ug/m3			01/28/20 17:53	1
Tetrachloroethene	ND		3.4	ug/m3			01/28/20 17:53	1
Toluene	**27**		19	ug/m3			01/28/20 17:53	1
Trichloroethene	ND		2.7	ug/m3			01/28/20 17:53	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/28/20 17:53	1
Vinyl acetate	ND		7.0	ug/m3			01/28/20 17:53	1
Vinyl chloride	ND		1.3	ug/m3			01/28/20 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*47 - 137*		*01/28/20 17:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*57 - 129*		*01/28/20 17:53*	*1*
Toluene-d8 (Surr)	*101*		*78 - 156*		*01/28/20 17:53*	*1*

Client Sample ID: SVP1-19.5
Date Collected: 01/27/20 14:41
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-3
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/28/20 21:59	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/28/20 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/28/20 21:59	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/28/20 21:59	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/28/20 21:59	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/28/20 21:59	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/28/20 21:59	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/28/20 21:59	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/28/20 21:59	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/28/20 21:59	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/28/20 21:59	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 21:59	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/28/20 21:59	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/28/20 21:59	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/28/20 21:59	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP1-19.5
Date Collected: 01/27/20 14:41
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-3
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 21:59	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 21:59	1
2-Butanone	**14**		4.4	ug/m3			01/28/20 21:59	1
2-Hexanone	ND		6.1	ug/m3			01/28/20 21:59	1
4-Ethyltoluene	ND		2.5	ug/m3			01/28/20 21:59	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/28/20 21:59	1
Acetone	**48**		12	ug/m3			01/28/20 21:59	1
Benzene	**3.9**		1.6	ug/m3			01/28/20 21:59	1
Benzyl chloride	ND		7.8	ug/m3			01/28/20 21:59	1
Bromodichloromethane	ND		3.4	ug/m3			01/28/20 21:59	1
Bromoform	ND		5.2	ug/m3			01/28/20 21:59	1
Bromomethane	ND		1.9	ug/m3			01/28/20 21:59	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 21:59	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/28/20 21:59	1
Carbon disulfide	ND		16	ug/m3			01/28/20 21:59	1
Carbon tetrachloride	ND		3.1	ug/m3			01/28/20 21:59	1
Chlorobenzene	ND		2.3	ug/m3			01/28/20 21:59	1
Chloroethane	ND		1.3	ug/m3			01/28/20 21:59	1
Chloroform	ND		2.4	ug/m3			01/28/20 21:59	1
Chloromethane	ND		1.0	ug/m3			01/28/20 21:59	1
Dibromochloromethane	ND		4.3	ug/m3			01/28/20 21:59	1
Dichlorodifluoromethane	**10**		2.5	ug/m3			01/28/20 21:59	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/28/20 21:59	1
Ethylbenzene	ND		2.2	ug/m3			01/28/20 21:59	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/28/20 21:59	1
Isopropanol	ND		120	ug/m3			01/28/20 21:59	1
Methylene Chloride	ND		17	ug/m3			01/28/20 21:59	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/28/20 21:59	1
n-Butylbenzene	ND		8.2	ug/m3			01/28/20 21:59	1
o-Xylene	ND		2.2	ug/m3			01/28/20 21:59	1
m,p-Xylene	ND		8.7	ug/m3			01/28/20 21:59	1
sec-Butylbenzene	ND		8.2	ug/m3			01/28/20 21:59	1
Styrene	ND		6.4	ug/m3			01/28/20 21:59	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 21:59	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/28/20 21:59	1
tert-Butylbenzene	ND		8.2	ug/m3			01/28/20 21:59	1
Tetrachloroethene	**3.5**		3.4	ug/m3			01/28/20 21:59	1
Toluene	**22**		19	ug/m3			01/28/20 21:59	1
Trichloroethene	ND		2.7	ug/m3			01/28/20 21:59	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/28/20 21:59	1
Vinyl acetate	ND		7.0	ug/m3			01/28/20 21:59	1
Vinyl chloride	ND		1.3	ug/m3			01/28/20 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*47 - 137*		*01/28/20 21:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*57 - 129*		*01/28/20 21:59*	*1*
Toluene-d8 (Surr)	*100*		*78 - 156*		*01/28/20 21:59*	*1*

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: SVP2-5
Date Collected: 01/27/20 12:22
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-4
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7		ug/m3			01/28/20 22:51	1
1,1,2,2-Tetrachloroethane	ND		6.9		ug/m3			01/28/20 22:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11		ug/m3			01/28/20 22:51	1
1,1,2-Trichloroethane	ND		2.7		ug/m3			01/28/20 22:51	1
1,1-Dichloroethane	ND		2.0		ug/m3			01/28/20 22:51	1
1,1-Dichloroethene	ND		2.0		ug/m3			01/28/20 22:51	1
1,1-Difluoroethane	ND		5.4		ug/m3			01/28/20 22:51	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			01/28/20 22:51	1
1,2,4-Trimethylbenzene	ND		7.4		ug/m3			01/28/20 22:51	1
1,2-Dibromo-3-Chloropropane	ND		14		ug/m3			01/28/20 22:51	1
1,2-Dibromoethane	ND		3.8		ug/m3			01/28/20 22:51	1
1,2-Dichlorobenzene	ND		3.0		ug/m3			01/28/20 22:51	1
1,2-Dichloroethane	ND		2.0		ug/m3			01/28/20 22:51	1
1,2-Dichloropropane	ND		2.3		ug/m3			01/28/20 22:51	1
1,3,5-Trimethylbenzene	**2.9**		2.5		ug/m3			01/28/20 22:51	1
1,3-Dichlorobenzene	ND		3.0		ug/m3			01/28/20 22:51	1
1,4-Dichlorobenzene	ND		3.0		ug/m3			01/28/20 22:51	1
2-Butanone	**11**		4.4		ug/m3			01/28/20 22:51	1
2-Hexanone	ND		6.1		ug/m3			01/28/20 22:51	1
4-Ethyltoluene	ND		2.5		ug/m3			01/28/20 22:51	1
4-Methyl-2-pentanone	ND		6.1		ug/m3			01/28/20 22:51	1
Acetone	**48**		12		ug/m3			01/28/20 22:51	1
Benzene	**2.3**		1.6		ug/m3			01/28/20 22:51	1
Benzyl chloride	ND		7.8		ug/m3			01/28/20 22:51	1
Bromodichloromethane	ND		3.4		ug/m3			01/28/20 22:51	1
Bromoform	ND		5.2		ug/m3			01/28/20 22:51	1
Bromomethane	ND		1.9		ug/m3			01/28/20 22:51	1
cis-1,2-Dichloroethene	ND		2.0		ug/m3			01/28/20 22:51	1
cis-1,3-Dichloropropene	ND		2.3		ug/m3			01/28/20 22:51	1
Carbon disulfide	ND		16		ug/m3			01/28/20 22:51	1
Carbon tetrachloride	ND		3.1		ug/m3			01/28/20 22:51	1
Chlorobenzene	ND		2.3		ug/m3			01/28/20 22:51	1
Chloroethane	ND		1.3		ug/m3			01/28/20 22:51	1
Chloroform	**3.7**		2.4		ug/m3			01/28/20 22:51	1
Chloromethane	ND		1.0		ug/m3			01/28/20 22:51	1
Dibromochloromethane	ND		4.3		ug/m3			01/28/20 22:51	1
Dichlorodifluoromethane	**10**		2.5		ug/m3			01/28/20 22:51	1
Dichlorotetrafluoroethane	ND		14		ug/m3			01/28/20 22:51	1
Ethylbenzene	**4.8**		2.2		ug/m3			01/28/20 22:51	1
Hexachloro-1,3-butadiene	ND		16		ug/m3			01/28/20 22:51	1
Isopropanol	ND		120		ug/m3			01/28/20 22:51	1
Methylene Chloride	ND		17		ug/m3			01/28/20 22:51	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2		ug/m3			01/28/20 22:51	1
n-Butylbenzene	ND		8.2		ug/m3			01/28/20 22:51	1
o-Xylene	**6.5**		2.2		ug/m3			01/28/20 22:51	1
m,p-Xylene	**18**		8.7		ug/m3			01/28/20 22:51	1
sec-Butylbenzene	ND		8.2		ug/m3			01/28/20 22:51	1
Styrene	ND		6.4		ug/m3			01/28/20 22:51	1
trans-1,2-Dichloroethene	ND		2.0		ug/m3			01/28/20 22:51	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP2-5
Date Collected: 01/27/20 12:22
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-4
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/28/20 22:51	1
tert-Butylbenzene	ND		8.2	ug/m3			01/28/20 22:51	1
Tetrachloroethene	ND		3.4	ug/m3			01/28/20 22:51	1
Toluene	**28**		19	ug/m3			01/28/20 22:51	1
Trichloroethene	ND		2.7	ug/m3			01/28/20 22:51	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/28/20 22:51	1
Vinyl acetate	ND		7.0	ug/m3			01/28/20 22:51	1
Vinyl chloride	ND		1.3	ug/m3			01/28/20 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*47 - 137*		*01/28/20 22:51*	*1*
4-Bromofluorobenzene (Surr)	*102*		*57 - 129*		*01/28/20 22:51*	*1*
Toluene-d8 (Surr)	*98*		*78 - 156*		*01/28/20 22:51*	*1*

Client Sample ID: SVP2-10
Date Collected: 01/27/20 13:14
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-5
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/28/20 23:43	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/28/20 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/28/20 23:43	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/28/20 23:43	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/28/20 23:43	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/28/20 23:43	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/28/20 23:43	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/28/20 23:43	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/28/20 23:43	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/28/20 23:43	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/28/20 23:43	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 23:43	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/28/20 23:43	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/28/20 23:43	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/28/20 23:43	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 23:43	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 23:43	1
2-Butanone	**10**		4.4	ug/m3			01/28/20 23:43	1
2-Hexanone	ND		6.1	ug/m3			01/28/20 23:43	1
4-Ethyltoluene	ND		2.5	ug/m3			01/28/20 23:43	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/28/20 23:43	1
Acetone	**37**		12	ug/m3			01/28/20 23:43	1
Benzene	ND		1.6	ug/m3			01/28/20 23:43	1
Benzyl chloride	ND		7.8	ug/m3			01/28/20 23:43	1
Bromodichloromethane	ND		3.4	ug/m3			01/28/20 23:43	1
Bromoform	ND		5.2	ug/m3			01/28/20 23:43	1
Bromomethane	ND		1.9	ug/m3			01/28/20 23:43	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 23:43	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/28/20 23:43	1
Carbon disulfide	ND		16	ug/m3			01/28/20 23:43	1
Carbon tetrachloride	ND		3.1	ug/m3			01/28/20 23:43	1
Chlorobenzene	ND		2.3	ug/m3			01/28/20 23:43	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP2-10
Date Collected: 01/27/20 13:14
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-5
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.3	ug/m3			01/28/20 23:43	1
Chloroform	**2.5**		2.4	ug/m3			01/28/20 23:43	1
Chloromethane	ND		1.0	ug/m3			01/28/20 23:43	1
Dibromochloromethane	ND		4.3	ug/m3			01/28/20 23:43	1
Dichlorodifluoromethane	**11**		2.5	ug/m3			01/28/20 23:43	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/28/20 23:43	1
Ethylbenzene	ND		2.2	ug/m3			01/28/20 23:43	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/28/20 23:43	1
Isopropanol	ND		120	ug/m3			01/28/20 23:43	1
Methylene Chloride	ND		17	ug/m3			01/28/20 23:43	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/28/20 23:43	1
n-Butylbenzene	ND		8.2	ug/m3			01/28/20 23:43	1
o-Xylene	ND		2.2	ug/m3			01/28/20 23:43	1
m,p-Xylene	ND		8.7	ug/m3			01/28/20 23:43	1
sec-Butylbenzene	ND		8.2	ug/m3			01/28/20 23:43	1
Styrene	ND		6.4	ug/m3			01/28/20 23:43	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 23:43	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/28/20 23:43	1
tert-Butylbenzene	ND		8.2	ug/m3			01/28/20 23:43	1
Tetrachloroethene	ND		3.4	ug/m3			01/28/20 23:43	1
Toluene	ND		19	ug/m3			01/28/20 23:43	1
Trichloroethene	ND		2.7	ug/m3			01/28/20 23:43	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/28/20 23:43	1
Vinyl acetate	ND		7.0	ug/m3			01/28/20 23:43	1
Vinyl chloride	ND		1.3	ug/m3			01/28/20 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*47 - 137*		*01/28/20 23:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*57 - 129*		*01/28/20 23:43*	*1*
Toluene-d8 (Surr)	*100*		*78 - 156*		*01/28/20 23:43*	*1*

Client Sample ID: SVP2-19.5
Date Collected: 01/27/20 13:39
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-6
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/29/20 00:35	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/29/20 00:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/29/20 00:35	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/29/20 00:35	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/29/20 00:35	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/29/20 00:35	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/29/20 00:35	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/29/20 00:35	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/29/20 00:35	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/29/20 00:35	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/29/20 00:35	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 00:35	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/29/20 00:35	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/29/20 00:35	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/29/20 00:35	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP2-19.5
Date Collected: 01/27/20 13:39
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-6
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 00:35	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 00:35	1
2-Butanone	**9.3**		4.4	ug/m3			01/29/20 00:35	1
2-Hexanone	ND		6.1	ug/m3			01/29/20 00:35	1
4-Ethyltoluene	ND		2.5	ug/m3			01/29/20 00:35	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/29/20 00:35	1
Acetone	**35**		12	ug/m3			01/29/20 00:35	1
Benzene	ND		1.6	ug/m3			01/29/20 00:35	1
Benzyl chloride	ND		7.8	ug/m3			01/29/20 00:35	1
Bromodichloromethane	ND		3.4	ug/m3			01/29/20 00:35	1
Bromoform	ND		5.2	ug/m3			01/29/20 00:35	1
Bromomethane	ND		1.9	ug/m3			01/29/20 00:35	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 00:35	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/29/20 00:35	1
Carbon disulfide	ND		16	ug/m3			01/29/20 00:35	1
Carbon tetrachloride	ND		3.1	ug/m3			01/29/20 00:35	1
Chlorobenzene	ND		2.3	ug/m3			01/29/20 00:35	1
Chloroethane	ND		1.3	ug/m3			01/29/20 00:35	1
Chloroform	ND		2.4	ug/m3			01/29/20 00:35	1
Chloromethane	ND		1.0	ug/m3			01/29/20 00:35	1
Dibromochloromethane	ND		4.3	ug/m3			01/29/20 00:35	1
Dichlorodifluoromethane	**12**		2.5	ug/m3			01/29/20 00:35	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/29/20 00:35	1
Ethylbenzene	ND		2.2	ug/m3			01/29/20 00:35	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/29/20 00:35	1
Isopropanol	ND		120	ug/m3			01/29/20 00:35	1
Methylene Chloride	ND		17	ug/m3			01/29/20 00:35	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/29/20 00:35	1
n-Butylbenzene	ND		8.2	ug/m3			01/29/20 00:35	1
o-Xylene	ND		2.2	ug/m3			01/29/20 00:35	1
m,p-Xylene	ND		8.7	ug/m3			01/29/20 00:35	1
sec-Butylbenzene	ND		8.2	ug/m3			01/29/20 00:35	1
Styrene	ND		6.4	ug/m3			01/29/20 00:35	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 00:35	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/29/20 00:35	1
tert-Butylbenzene	ND		8.2	ug/m3			01/29/20 00:35	1
Tetrachloroethene	ND		3.4	ug/m3			01/29/20 00:35	1
Toluene	ND		19	ug/m3			01/29/20 00:35	1
Trichloroethene	ND		2.7	ug/m3			01/29/20 00:35	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/29/20 00:35	1
Vinyl acetate	ND		7.0	ug/m3			01/29/20 00:35	1
Vinyl chloride	ND		1.3	ug/m3			01/29/20 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*47 - 137*		*01/29/20 00:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*57 - 129*		*01/29/20 00:35*	*1*
Toluene-d8 (Surr)	*100*		*78 - 156*		*01/29/20 00:35*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: SVP3-5
Date Collected: 01/27/20 10:57
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-7
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7		ug/m3			01/29/20 02:14	1
1,1,2,2-Tetrachloroethane	ND		6.9		ug/m3			01/29/20 02:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11		ug/m3			01/29/20 02:14	1
1,1,2-Trichloroethane	ND		2.7		ug/m3			01/29/20 02:14	1
1,1-Dichloroethane	ND		2.0		ug/m3			01/29/20 02:14	1
1,1-Dichloroethene	ND		2.0		ug/m3			01/29/20 02:14	1
1,1-Difluoroethane	ND		5.4		ug/m3			01/29/20 02:14	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			01/29/20 02:14	1
1,2,4-Trimethylbenzene	ND		7.4		ug/m3			01/29/20 02:14	1
1,2-Dibromo-3-Chloropropane	ND		14		ug/m3			01/29/20 02:14	1
1,2-Dibromoethane	ND		3.8		ug/m3			01/29/20 02:14	1
1,2-Dichlorobenzene	ND		3.0		ug/m3			01/29/20 02:14	1
1,2-Dichloroethane	ND		2.0		ug/m3			01/29/20 02:14	1
1,2-Dichloropropane	ND		2.3		ug/m3			01/29/20 02:14	1
1,3,5-Trimethylbenzene	ND		2.5		ug/m3			01/29/20 02:14	1
1,3-Dichlorobenzene	ND		3.0		ug/m3			01/29/20 02:14	1
1,4-Dichlorobenzene	ND		3.0		ug/m3			01/29/20 02:14	1
2-Butanone	**8.0**		4.4		ug/m3			01/29/20 02:14	1
2-Hexanone	ND		6.1		ug/m3			01/29/20 02:14	1
4-Ethyltoluene	ND		2.5		ug/m3			01/29/20 02:14	1
4-Methyl-2-pentanone	ND		6.1		ug/m3			01/29/20 02:14	1
Acetone	**47**		12		ug/m3			01/29/20 02:14	1
Benzene	**2.4**		1.6		ug/m3			01/29/20 02:14	1
Benzyl chloride	ND		7.8		ug/m3			01/29/20 02:14	1
Bromodichloromethane	ND		3.4		ug/m3			01/29/20 02:14	1
Bromoform	ND		5.2		ug/m3			01/29/20 02:14	1
Bromomethane	ND		1.9		ug/m3			01/29/20 02:14	1
cis-1,2-Dichloroethene	ND		2.0		ug/m3			01/29/20 02:14	1
cis-1,3-Dichloropropene	ND		2.3		ug/m3			01/29/20 02:14	1
Carbon disulfide	ND		16		ug/m3			01/29/20 02:14	1
Carbon tetrachloride	ND		3.1		ug/m3			01/29/20 02:14	1
Chlorobenzene	ND		2.3		ug/m3			01/29/20 02:14	1
Chloroethane	ND		1.3		ug/m3			01/29/20 02:14	1
Chloroform	ND		2.4		ug/m3			01/29/20 02:14	1
Chloromethane	ND		1.0		ug/m3			01/29/20 02:14	1
Dibromochloromethane	ND		4.3		ug/m3			01/29/20 02:14	1
Dichlorodifluoromethane	**2.5**		2.5		ug/m3			01/29/20 02:14	1
Dichlorotetrafluoroethane	ND		14		ug/m3			01/29/20 02:14	1
Ethylbenzene	ND		2.2		ug/m3			01/29/20 02:14	1
Hexachloro-1,3-butadiene	ND		16		ug/m3			01/29/20 02:14	1
Isopropanol	ND		120		ug/m3			01/29/20 02:14	1
Methylene Chloride	ND		17		ug/m3			01/29/20 02:14	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2		ug/m3			01/29/20 02:14	1
n-Butylbenzene	ND		8.2		ug/m3			01/29/20 02:14	1
o-Xylene	ND		2.2		ug/m3			01/29/20 02:14	1
m,p-Xylene	ND		8.7		ug/m3			01/29/20 02:14	1
sec-Butylbenzene	ND		8.2		ug/m3			01/29/20 02:14	1
Styrene	ND		6.4		ug/m3			01/29/20 02:14	1
trans-1,2-Dichloroethene	ND		2.0		ug/m3			01/29/20 02:14	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP3-5
Date Collected: 01/27/20 10:57
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-7
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/29/20 02:14	1
tert-Butylbenzene	ND		8.2	ug/m3			01/29/20 02:14	1
Tetrachloroethene	ND		3.4	ug/m3			01/29/20 02:14	1
Toluene	**20**		19	ug/m3			01/29/20 02:14	1
Trichloroethene	ND		2.7	ug/m3			01/29/20 02:14	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/29/20 02:14	1
Vinyl acetate	ND		7.0	ug/m3			01/29/20 02:14	1
Vinyl chloride	ND		1.3	ug/m3			01/29/20 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*47 - 137*		*01/29/20 02:14*	*1*
4-Bromofluorobenzene (Surr)	*102*		*57 - 129*		*01/29/20 02:14*	*1*
Toluene-d8 (Surr)	*103*		*78 - 156*		*01/29/20 02:14*	*1*

Client Sample ID: SVP3-10
Date Collected: 01/27/20 11:20
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-8
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/29/20 03:05	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/29/20 03:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/29/20 03:05	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/29/20 03:05	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/29/20 03:05	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/29/20 03:05	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/29/20 03:05	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/29/20 03:05	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/29/20 03:05	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/29/20 03:05	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/29/20 03:05	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 03:05	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/29/20 03:05	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/29/20 03:05	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/29/20 03:05	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 03:05	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 03:05	1
2-Butanone	**9.6**		4.4	ug/m3			01/29/20 03:05	1
2-Hexanone	ND		6.1	ug/m3			01/29/20 03:05	1
4-Ethyltoluene	ND		2.5	ug/m3			01/29/20 03:05	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/29/20 03:05	1
Acetone	**46**		12	ug/m3			01/29/20 03:05	1
Benzene	**3.7**		1.6	ug/m3			01/29/20 03:05	1
Benzyl chloride	ND		7.8	ug/m3			01/29/20 03:05	1
Bromodichloromethane	ND		3.4	ug/m3			01/29/20 03:05	1
Bromoform	ND		5.2	ug/m3			01/29/20 03:05	1
Bromomethane	ND		1.9	ug/m3			01/29/20 03:05	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 03:05	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/29/20 03:05	1
Carbon disulfide	ND		16	ug/m3			01/29/20 03:05	1
Carbon tetrachloride	ND		3.1	ug/m3			01/29/20 03:05	1
Chlorobenzene	ND		2.3	ug/m3			01/29/20 03:05	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP3-10
Date Collected: 01/27/20 11:20
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-8
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.3	ug/m3			01/29/20 03:05	1
Chloroform	ND		2.4	ug/m3			01/29/20 03:05	1
Chloromethane	ND		1.0	ug/m3			01/29/20 03:05	1
Dibromochloromethane	ND		4.3	ug/m3			01/29/20 03:05	1
Dichlorodifluoromethane	ND		2.5	ug/m3			01/29/20 03:05	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/29/20 03:05	1
Ethylbenzene	**3.5**		2.2	ug/m3			01/29/20 03:05	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/29/20 03:05	1
Isopropanol	ND		120	ug/m3			01/29/20 03:05	1
Methylene Chloride	ND		17	ug/m3			01/29/20 03:05	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/29/20 03:05	1
n-Butylbenzene	ND		8.2	ug/m3			01/29/20 03:05	1
o-Xylene	**4.1**		2.2	ug/m3			01/29/20 03:05	1
m,p-Xylene	**11**		8.7	ug/m3			01/29/20 03:05	1
sec-Butylbenzene	ND		8.2	ug/m3			01/29/20 03:05	1
Styrene	ND		6.4	ug/m3			01/29/20 03:05	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 03:05	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/29/20 03:05	1
tert-Butylbenzene	ND		8.2	ug/m3			01/29/20 03:05	1
Tetrachloroethene	ND		3.4	ug/m3			01/29/20 03:05	1
Toluene	**28**		19	ug/m3			01/29/20 03:05	1
Trichloroethene	ND		2.7	ug/m3			01/29/20 03:05	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/29/20 03:05	1
Vinyl acetate	ND		7.0	ug/m3			01/29/20 03:05	1
Vinyl chloride	ND		1.3	ug/m3			01/29/20 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*47 - 137*		*01/29/20 03:05*	*1*
4-Bromofluorobenzene (Surr)	*103*		*57 - 129*		*01/29/20 03:05*	*1*
Toluene-d8 (Surr)	*99*		*78 - 156*		*01/29/20 03:05*	*1*

Client Sample ID: SVP3-19.5
Date Collected: 01/27/20 11:49
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-9
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/29/20 04:51	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/29/20 04:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/29/20 04:51	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/29/20 04:51	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/29/20 04:51	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/29/20 04:51	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/29/20 04:51	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/29/20 04:51	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/29/20 04:51	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/29/20 04:51	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/29/20 04:51	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 04:51	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/29/20 04:51	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/29/20 04:51	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/29/20 04:51	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP3-19.5
Date Collected: 01/27/20 11:49
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-9
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 04:51	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 04:51	1
2-Butanone	**10**		4.4	ug/m3			01/29/20 04:51	1
2-Hexanone	ND		6.1	ug/m3			01/29/20 04:51	1
4-Ethyltoluene	ND		2.5	ug/m3			01/29/20 04:51	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/29/20 04:51	1
Acetone	**48**		12	ug/m3			01/29/20 04:51	1
Benzene	**20**		1.6	ug/m3			01/29/20 04:51	1
Benzyl chloride	ND		7.8	ug/m3			01/29/20 04:51	1
Bromodichloromethane	**5.3**		3.4	ug/m3			01/29/20 04:51	1
Bromoform	ND		5.2	ug/m3			01/29/20 04:51	1
Bromomethane	ND		1.9	ug/m3			01/29/20 04:51	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 04:51	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/29/20 04:51	1
Carbon disulfide	**44**		16	ug/m3			01/29/20 04:51	1
Carbon tetrachloride	ND		3.1	ug/m3			01/29/20 04:51	1
Chlorobenzene	ND		2.3	ug/m3			01/29/20 04:51	1
Chloroethane	ND		1.3	ug/m3			01/29/20 04:51	1
Chloroform	ND		2.4	ug/m3			01/29/20 04:51	1
Chloromethane	**7.0**		1.0	ug/m3			01/29/20 04:51	1
Dibromochloromethane	ND		4.3	ug/m3			01/29/20 04:51	1
Dichlorodifluoromethane	**2.5**		2.5	ug/m3			01/29/20 04:51	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/29/20 04:51	1
Ethylbenzene	**7.8**		2.2	ug/m3			01/29/20 04:51	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/29/20 04:51	1
Isopropanol	ND		120	ug/m3			01/29/20 04:51	1
Methylene Chloride	ND		17	ug/m3			01/29/20 04:51	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/29/20 04:51	1
n-Butylbenzene	ND		8.2	ug/m3			01/29/20 04:51	1
o-Xylene	**7.0**		2.2	ug/m3			01/29/20 04:51	1
m,p-Xylene	**20**		8.7	ug/m3			01/29/20 04:51	1
sec-Butylbenzene	ND		8.2	ug/m3			01/29/20 04:51	1
Styrene	ND		6.4	ug/m3			01/29/20 04:51	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 04:51	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/29/20 04:51	1
tert-Butylbenzene	ND		8.2	ug/m3			01/29/20 04:51	1
Tetrachloroethene	ND		3.4	ug/m3			01/29/20 04:51	1
Toluene	**53**		19	ug/m3			01/29/20 04:51	1
Trichloroethene	ND		2.7	ug/m3			01/29/20 04:51	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/29/20 04:51	1
Vinyl acetate	ND		7.0	ug/m3			01/29/20 04:51	1
Vinyl chloride	ND		1.3	ug/m3			01/29/20 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*47 - 137*		*01/29/20 04:51*	*1*
4-Bromofluorobenzene (Surr)	*102*		*57 - 129*		*01/29/20 04:51*	*1*
Toluene-d8 (Surr)	*97*		*78 - 156*		*01/29/20 04:51*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: SVP4-5
Date Collected: 01/27/20 14:59
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-10
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/29/20 03:58	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/29/20 03:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/29/20 03:58	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/29/20 03:58	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/29/20 03:58	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/29/20 03:58	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/29/20 03:58	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/29/20 03:58	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/29/20 03:58	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/29/20 03:58	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/29/20 03:58	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 03:58	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/29/20 03:58	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/29/20 03:58	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/29/20 03:58	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 03:58	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 03:58	1
2-Butanone	**12**		4.4	ug/m3			01/29/20 03:58	1
2-Hexanone	ND		6.1	ug/m3			01/29/20 03:58	1
4-Ethyltoluene	ND		2.5	ug/m3			01/29/20 03:58	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/29/20 03:58	1
Acetone	**45**		12	ug/m3			01/29/20 03:58	1
Benzene	**2.3**		1.6	ug/m3			01/29/20 03:58	1
Benzyl chloride	ND		7.8	ug/m3			01/29/20 03:58	1
Bromodichloromethane	ND		3.4	ug/m3			01/29/20 03:58	1
Bromoform	ND		5.2	ug/m3			01/29/20 03:58	1
Bromomethane	ND		1.9	ug/m3			01/29/20 03:58	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 03:58	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/29/20 03:58	1
Carbon disulfide	ND		16	ug/m3			01/29/20 03:58	1
Carbon tetrachloride	ND		3.1	ug/m3			01/29/20 03:58	1
Chlorobenzene	ND		2.3	ug/m3			01/29/20 03:58	1
Chloroethane	ND		1.3	ug/m3			01/29/20 03:58	1
Chloroform	**2.8**		2.4	ug/m3			01/29/20 03:58	1
Chloromethane	ND		1.0	ug/m3			01/29/20 03:58	1
Dibromochloromethane	ND		4.3	ug/m3			01/29/20 03:58	1
Dichlorodifluoromethane	**13**		2.5	ug/m3			01/29/20 03:58	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/29/20 03:58	1
Ethylbenzene	ND		2.2	ug/m3			01/29/20 03:58	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/29/20 03:58	1
Isopropanol	ND		120	ug/m3			01/29/20 03:58	1
Methylene Chloride	ND		17	ug/m3			01/29/20 03:58	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/29/20 03:58	1
n-Butylbenzene	ND		8.2	ug/m3			01/29/20 03:58	1
o-Xylene	**2.3**		2.2	ug/m3			01/29/20 03:58	1
m,p-Xylene	ND		8.7	ug/m3			01/29/20 03:58	1
sec-Butylbenzene	ND		8.2	ug/m3			01/29/20 03:58	1
Styrene	ND		6.4	ug/m3			01/29/20 03:58	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 03:58	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP4-5
Date Collected: 01/27/20 14:59
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-10
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/29/20 03:58	1
tert-Butylbenzene	ND		8.2	ug/m3			01/29/20 03:58	1
Tetrachloroethene	ND		3.4	ug/m3			01/29/20 03:58	1
Toluene	**24**		19	ug/m3			01/29/20 03:58	1
Trichloroethene	ND		2.7	ug/m3			01/29/20 03:58	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/29/20 03:58	1
Vinyl acetate	ND		7.0	ug/m3			01/29/20 03:58	1
Vinyl chloride	ND		1.3	ug/m3			01/29/20 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*47 - 137*		*01/29/20 03:58*	*1*
4-Bromofluorobenzene (Surr)	*103*		*57 - 129*		*01/29/20 03:58*	*1*
Toluene-d8 (Surr)	*100*		*78 - 156*		*01/29/20 03:58*	*1*

Client Sample ID: SVP4-10
Date Collected: 01/27/20 15:12
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-11
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/29/20 17:13	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/29/20 17:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/29/20 17:13	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/29/20 17:13	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/29/20 17:13	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/29/20 17:13	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/29/20 17:13	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/29/20 17:13	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/29/20 17:13	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/29/20 17:13	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/29/20 17:13	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 17:13	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/29/20 17:13	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/29/20 17:13	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/29/20 17:13	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 17:13	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 17:13	1
2-Butanone	**14**		4.4	ug/m3			01/29/20 17:13	1
2-Hexanone	ND		6.1	ug/m3			01/29/20 17:13	1
4-Ethyltoluene	**36**		2.5	ug/m3			01/29/20 17:13	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/29/20 17:13	1
Acetone	**62**		12	ug/m3			01/29/20 17:13	1
Benzene	**2.5**		1.6	ug/m3			01/29/20 17:13	1
Benzyl chloride	ND		7.8	ug/m3			01/29/20 17:13	1
Bromodichloromethane	ND		3.4	ug/m3			01/29/20 17:13	1
Bromoform	ND		5.2	ug/m3			01/29/20 17:13	1
Bromomethane	ND		1.9	ug/m3			01/29/20 17:13	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 17:13	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/29/20 17:13	1
Carbon disulfide	ND		16	ug/m3			01/29/20 17:13	1
Carbon tetrachloride	ND		3.1	ug/m3			01/29/20 17:13	1
Chlorobenzene	ND		2.3	ug/m3			01/29/20 17:13	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP4-10
Date Collected: 01/27/20 15:12
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-11
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.3	ug/m3			01/29/20 17:13	1
Chloroform	ND		2.4	ug/m3			01/29/20 17:13	1
Chloromethane	ND		1.0	ug/m3			01/29/20 17:13	1
Dibromochloromethane	ND		4.3	ug/m3			01/29/20 17:13	1
Dichlorodifluoromethane	**8.5**		2.5	ug/m3			01/29/20 17:13	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/29/20 17:13	1
Ethylbenzene	**2.8**		2.2	ug/m3			01/29/20 17:13	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/29/20 17:13	1
Isopropanol	ND		120	ug/m3			01/29/20 17:13	1
Methylene Chloride	ND		17	ug/m3			01/29/20 17:13	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/29/20 17:13	1
n-Butylbenzene	ND		8.2	ug/m3			01/29/20 17:13	1
o-Xylene	ND		2.2	ug/m3			01/29/20 17:13	1
m,p-Xylene	ND		8.7	ug/m3			01/29/20 17:13	1
sec-Butylbenzene	ND		8.2	ug/m3			01/29/20 17:13	1
Styrene	ND		6.4	ug/m3			01/29/20 17:13	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 17:13	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/29/20 17:13	1
tert-Butylbenzene	ND		8.2	ug/m3			01/29/20 17:13	1
Tetrachloroethene	ND		3.4	ug/m3			01/29/20 17:13	1
Toluene	**250**		19	ug/m3			01/29/20 17:13	1
Trichloroethene	ND		2.7	ug/m3			01/29/20 17:13	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/29/20 17:13	1
Vinyl acetate	ND		7.0	ug/m3			01/29/20 17:13	1
Vinyl chloride	ND		1.3	ug/m3			01/29/20 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*47 - 137*		*01/29/20 17:13*	*1*
4-Bromofluorobenzene (Surr)	*113*		*57 - 129*		*01/29/20 17:13*	*1*
Toluene-d8 (Surr)	*96*		*78 - 156*		*01/29/20 17:13*	*1*

Client Sample ID: SVP4-19.5
Date Collected: 01/27/20 15:27
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-12
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/29/20 17:03	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/29/20 17:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/29/20 17:03	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/29/20 17:03	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/29/20 17:03	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/29/20 17:03	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/29/20 17:03	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/29/20 17:03	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/29/20 17:03	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/29/20 17:03	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/29/20 17:03	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 17:03	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/29/20 17:03	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/29/20 17:03	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/29/20 17:03	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP4-19.5
Date Collected: 01/27/20 15:27
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-12
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 17:03	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 17:03	1
2-Butanone	**10**		4.4	ug/m3			01/29/20 17:03	1
2-Hexanone	ND		6.1	ug/m3			01/29/20 17:03	1
4-Ethyltoluene	ND		2.5	ug/m3			01/29/20 17:03	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/29/20 17:03	1
Acetone	**57**		12	ug/m3			01/29/20 17:03	1
Benzene	**9.4**		1.6	ug/m3			01/29/20 17:03	1
Benzyl chloride	ND		7.8	ug/m3			01/29/20 17:03	1
Bromodichloromethane	ND		3.4	ug/m3			01/29/20 17:03	1
Bromoform	ND		5.2	ug/m3			01/29/20 17:03	1
Bromomethane	ND		1.9	ug/m3			01/29/20 17:03	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 17:03	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/29/20 17:03	1
Carbon disulfide	**25**		16	ug/m3			01/29/20 17:03	1
Carbon tetrachloride	ND		3.1	ug/m3			01/29/20 17:03	1
Chlorobenzene	ND		2.3	ug/m3			01/29/20 17:03	1
Chloroethane	ND		1.3	ug/m3			01/29/20 17:03	1
Chloroform	**3.2**		2.4	ug/m3			01/29/20 17:03	1
Chloromethane	ND		1.0	ug/m3			01/29/20 17:03	1
Dibromochloromethane	ND		4.3	ug/m3			01/29/20 17:03	1
Dichlorodifluoromethane	**14**		2.5	ug/m3			01/29/20 17:03	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/29/20 17:03	1
Ethylbenzene	**3.1**		2.2	ug/m3			01/29/20 17:03	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/29/20 17:03	1
Isopropanol	ND		120	ug/m3			01/29/20 17:03	1
Methylene Chloride	ND		17	ug/m3			01/29/20 17:03	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/29/20 17:03	1
n-Butylbenzene	ND		8.2	ug/m3			01/29/20 17:03	1
o-Xylene	**2.7**		2.2	ug/m3			01/29/20 17:03	1
m,p-Xylene	ND		8.7	ug/m3			01/29/20 17:03	1
sec-Butylbenzene	ND		8.2	ug/m3			01/29/20 17:03	1
Styrene	ND		6.4	ug/m3			01/29/20 17:03	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 17:03	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/29/20 17:03	1
tert-Butylbenzene	ND		8.2	ug/m3			01/29/20 17:03	1
Tetrachloroethene	ND		3.4	ug/m3			01/29/20 17:03	1
Toluene	**27**		19	ug/m3			01/29/20 17:03	1
Trichloroethene	ND		2.7	ug/m3			01/29/20 17:03	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/29/20 17:03	1
Vinyl acetate	ND		7.0	ug/m3			01/29/20 17:03	1
Vinyl chloride	ND		1.3	ug/m3			01/29/20 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*47 - 137*		*01/29/20 17:03*	*1*
4-Bromofluorobenzene (Surr)	*115*		*57 - 129*		*01/29/20 17:03*	*1*
Toluene-d8 (Surr)	*102*		*78 - 156*		*01/29/20 17:03*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: SVP5-5
Date Collected: 01/27/20 15:48
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-13
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/28/20 19:22	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/28/20 19:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/28/20 19:22	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/28/20 19:22	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/28/20 19:22	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/28/20 19:22	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/28/20 19:22	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/28/20 19:22	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/28/20 19:22	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/28/20 19:22	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/28/20 19:22	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 19:22	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/28/20 19:22	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/28/20 19:22	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/28/20 19:22	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 19:22	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 19:22	1
2-Butanone	**14**		4.4	ug/m3			01/28/20 19:22	1
2-Hexanone	ND		6.1	ug/m3			01/28/20 19:22	1
4-Ethyltoluene	ND		2.5	ug/m3			01/28/20 19:22	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/28/20 19:22	1
Acetone	**48**		12	ug/m3			01/28/20 19:22	1
Benzene	ND		1.6	ug/m3			01/28/20 19:22	1
Benzyl chloride	ND		7.8	ug/m3			01/28/20 19:22	1
Bromodichloromethane	ND		3.4	ug/m3			01/28/20 19:22	1
Bromoform	ND		5.2	ug/m3			01/28/20 19:22	1
Bromomethane	ND		1.9	ug/m3			01/28/20 19:22	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 19:22	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/28/20 19:22	1
Carbon disulfide	ND		16	ug/m3			01/28/20 19:22	1
Carbon tetrachloride	ND		3.1	ug/m3			01/28/20 19:22	1
Chlorobenzene	ND		2.3	ug/m3			01/28/20 19:22	1
Chloroethane	ND		1.3	ug/m3			01/28/20 19:22	1
Chloroform	ND		2.4	ug/m3			01/28/20 19:22	1
Chloromethane	ND		1.0	ug/m3			01/28/20 19:22	1
Dibromochloromethane	ND		4.3	ug/m3			01/28/20 19:22	1
Dichlorodifluoromethane	**5.5**		2.5	ug/m3			01/28/20 19:22	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/28/20 19:22	1
Ethylbenzene	ND		2.2	ug/m3			01/28/20 19:22	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/28/20 19:22	1
Isopropanol	ND		120	ug/m3			01/28/20 19:22	1
Methylene Chloride	ND		17	ug/m3			01/28/20 19:22	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/28/20 19:22	1
n-Butylbenzene	ND		8.2	ug/m3			01/28/20 19:22	1
o-Xylene	ND		2.2	ug/m3			01/28/20 19:22	1
m,p-Xylene	ND		8.7	ug/m3			01/28/20 19:22	1
sec-Butylbenzene	ND		8.2	ug/m3			01/28/20 19:22	1
Styrene	ND		6.4	ug/m3			01/28/20 19:22	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 19:22	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP5-5
Date Collected: 01/27/20 15:48
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-13
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/28/20 19:22	1
tert-Butylbenzene	ND		8.2	ug/m3			01/28/20 19:22	1
Tetrachloroethene	ND		3.4	ug/m3			01/28/20 19:22	1
Toluene	ND		19	ug/m3			01/28/20 19:22	1
Trichloroethene	ND		2.7	ug/m3			01/28/20 19:22	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/28/20 19:22	1
Vinyl acetate	ND		7.0	ug/m3			01/28/20 19:22	1
Vinyl chloride	ND		1.3	ug/m3			01/28/20 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*47 - 137*		*01/28/20 19:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*57 - 129*		*01/28/20 19:22*	*1*
Toluene-d8 (Surr)	*97*		*78 - 156*		*01/28/20 19:22*	*1*

Client Sample ID: SVP5-10
Date Collected: 01/27/20 16:08
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-14
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/28/20 20:12	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/28/20 20:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/28/20 20:12	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/28/20 20:12	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/28/20 20:12	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/28/20 20:12	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/28/20 20:12	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/28/20 20:12	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/28/20 20:12	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/28/20 20:12	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/28/20 20:12	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 20:12	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/28/20 20:12	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/28/20 20:12	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/28/20 20:12	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 20:12	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 20:12	1
2-Butanone	**14**		4.4	ug/m3			01/28/20 20:12	1
2-Hexanone	ND		6.1	ug/m3			01/28/20 20:12	1
4-Ethyltoluene	ND		2.5	ug/m3			01/28/20 20:12	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/28/20 20:12	1
Acetone	**50**		12	ug/m3			01/28/20 20:12	1
Benzene	ND		1.6	ug/m3			01/28/20 20:12	1
Benzyl chloride	ND		7.8	ug/m3			01/28/20 20:12	1
Bromodichloromethane	ND		3.4	ug/m3			01/28/20 20:12	1
Bromoform	ND		5.2	ug/m3			01/28/20 20:12	1
Bromomethane	ND		1.9	ug/m3			01/28/20 20:12	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 20:12	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/28/20 20:12	1
Carbon disulfide	ND		16	ug/m3			01/28/20 20:12	1
Carbon tetrachloride	ND		3.1	ug/m3			01/28/20 20:12	1
Chlorobenzene	ND		2.3	ug/m3			01/28/20 20:12	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP5-10
Date Collected: 01/27/20 16:08
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-14
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.3	ug/m3			01/28/20 20:12	1
Chloroform	ND		2.4	ug/m3			01/28/20 20:12	1
Chloromethane	ND		1.0	ug/m3			01/28/20 20:12	1
Dibromochloromethane	ND		4.3	ug/m3			01/28/20 20:12	1
Dichlorodifluoromethane	**7.0**		2.5	ug/m3			01/28/20 20:12	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/28/20 20:12	1
Ethylbenzene	ND		2.2	ug/m3			01/28/20 20:12	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/28/20 20:12	1
Isopropanol	ND		120	ug/m3			01/28/20 20:12	1
Methylene Chloride	ND		17	ug/m3			01/28/20 20:12	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/28/20 20:12	1
n-Butylbenzene	ND		8.2	ug/m3			01/28/20 20:12	1
o-Xylene	**2.2**		2.2	ug/m3			01/28/20 20:12	1
m,p-Xylene	ND		8.7	ug/m3			01/28/20 20:12	1
sec-Butylbenzene	ND		8.2	ug/m3			01/28/20 20:12	1
Styrene	ND		6.4	ug/m3			01/28/20 20:12	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 20:12	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/28/20 20:12	1
tert-Butylbenzene	ND		8.2	ug/m3			01/28/20 20:12	1
Tetrachloroethene	ND		3.4	ug/m3			01/28/20 20:12	1
Toluene	**20**		19	ug/m3			01/28/20 20:12	1
Trichloroethene	ND		2.7	ug/m3			01/28/20 20:12	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/28/20 20:12	1
Vinyl acetate	ND		7.0	ug/m3			01/28/20 20:12	1
Vinyl chloride	ND		1.3	ug/m3			01/28/20 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*47 - 137*		*01/28/20 20:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*57 - 129*		*01/28/20 20:12*	*1*
Toluene-d8 (Surr)	*97*		*78 - 156*		*01/28/20 20:12*	*1*

Client Sample ID: SVP5-15
Date Collected: 01/27/20 16:24
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-15
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/28/20 21:02	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/28/20 21:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/28/20 21:02	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/28/20 21:02	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/28/20 21:02	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/28/20 21:02	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/28/20 21:02	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/28/20 21:02	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/28/20 21:02	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/28/20 21:02	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/28/20 21:02	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 21:02	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/28/20 21:02	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/28/20 21:02	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/28/20 21:02	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP5-15
Date Collected: 01/27/20 16:24
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-15
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		3.0		ug/m3			01/28/20 21:02	1
1,4-Dichlorobenzene	ND		3.0		ug/m3			01/28/20 21:02	1
2-Butanone	**13**		4.4		ug/m3			01/28/20 21:02	1
2-Hexanone	ND		6.1		ug/m3			01/28/20 21:02	1
4-Ethyltoluene	ND		2.5		ug/m3			01/28/20 21:02	1
4-Methyl-2-pentanone	ND		6.1		ug/m3			01/28/20 21:02	1
Acetone	**42**		12		ug/m3			01/28/20 21:02	1
Benzene	ND		1.6		ug/m3			01/28/20 21:02	1
Benzyl chloride	ND		7.8		ug/m3			01/28/20 21:02	1
Bromodichloromethane	ND		3.4		ug/m3			01/28/20 21:02	1
Bromoform	ND		5.2		ug/m3			01/28/20 21:02	1
Bromomethane	ND		1.9		ug/m3			01/28/20 21:02	1
cis-1,2-Dichloroethene	ND		2.0		ug/m3			01/28/20 21:02	1
cis-1,3-Dichloropropene	ND		2.3		ug/m3			01/28/20 21:02	1
Carbon disulfide	ND		16		ug/m3			01/28/20 21:02	1
Carbon tetrachloride	ND		3.1		ug/m3			01/28/20 21:02	1
Chlorobenzene	ND		2.3		ug/m3			01/28/20 21:02	1
Chloroethane	ND		1.3		ug/m3			01/28/20 21:02	1
Chloroform	ND		2.4		ug/m3			01/28/20 21:02	1
Chloromethane	ND		1.0		ug/m3			01/28/20 21:02	1
Dibromochloromethane	ND		4.3		ug/m3			01/28/20 21:02	1
Dichlorodifluoromethane	**6.8**		2.5		ug/m3			01/28/20 21:02	1
Dichlorotetrafluoroethane	ND		14		ug/m3			01/28/20 21:02	1
Ethylbenzene	ND		2.2		ug/m3			01/28/20 21:02	1
Hexachloro-1,3-butadiene	ND		16		ug/m3			01/28/20 21:02	1
Isopropanol	ND		120		ug/m3			01/28/20 21:02	1
Methylene Chloride	ND		17		ug/m3			01/28/20 21:02	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2		ug/m3			01/28/20 21:02	1
n-Butylbenzene	ND		8.2		ug/m3			01/28/20 21:02	1
o-Xylene	ND		2.2		ug/m3			01/28/20 21:02	1
m,p-Xylene	ND		8.7		ug/m3			01/28/20 21:02	1
sec-Butylbenzene	ND		8.2		ug/m3			01/28/20 21:02	1
Styrene	ND		6.4		ug/m3			01/28/20 21:02	1
trans-1,2-Dichloroethene	ND		2.0		ug/m3			01/28/20 21:02	1
trans-1,3-Dichloropropene	ND		4.5		ug/m3			01/28/20 21:02	1
tert-Butylbenzene	ND		8.2		ug/m3			01/28/20 21:02	1
Tetrachloroethene	ND		3.4		ug/m3			01/28/20 21:02	1
Toluene	ND		19		ug/m3			01/28/20 21:02	1
Trichloroethene	ND		2.7		ug/m3			01/28/20 21:02	1
Trichlorofluoromethane	ND		5.6		ug/m3			01/28/20 21:02	1
Vinyl acetate	ND		7.0		ug/m3			01/28/20 21:02	1
Vinyl chloride	ND		1.3		ug/m3			01/28/20 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*47 - 137*		*01/28/20 21:02*	*1*
4-Bromofluorobenzene (Surr)	*108*		*57 - 129*		*01/28/20 21:02*	*1*
Toluene-d8 (Surr)	*98*		*78 - 156*		*01/28/20 21:02*	*1*

Method: D1946 - Fixed Gases in Air (GC)

Client Sample ID: SVP1-5 — **Lab Sample ID: 570-19024-1**
Date Collected: 01/27/20 14:05 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 10:58	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 10:58	1
Methane	ND		0.50	% v/v			01/28/20 10:58	1
Nitrogen	**76**		0.50	% v/v			01/28/20 10:58	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 10:58	1

Client Sample ID: SVP1-10 — **Lab Sample ID: 570-19024-2**
Date Collected: 01/27/20 14:25 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 11:36	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 11:36	1
Methane	ND		0.50	% v/v			01/28/20 11:36	1
Nitrogen	**78**		0.50	% v/v			01/28/20 11:36	1
Oxygen + Argon	**24**		0.50	% v/v			01/28/20 11:36	1

Client Sample ID: SVP1-19.5 — **Lab Sample ID: 570-19024-3**
Date Collected: 01/27/20 14:41 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 11:54	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 11:54	1
Methane	ND		0.50	% v/v			01/28/20 11:54	1
Nitrogen	**76**		0.50	% v/v			01/28/20 11:54	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 11:54	1

Client Sample ID: SVP2-5 — **Lab Sample ID: 570-19024-4**
Date Collected: 01/27/20 12:22 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 12:13	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 12:13	1
Methane	ND		0.50	% v/v			01/28/20 12:13	1
Nitrogen	**78**		0.50	% v/v			01/28/20 12:13	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 12:13	1

Client Sample ID: SVP2-10 — **Lab Sample ID: 570-19024-5**
Date Collected: 01/27/20 13:14 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 12:31	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 12:31	1
Methane	ND		0.50	% v/v			01/28/20 12:31	1
Nitrogen	**78**		0.50	% v/v			01/28/20 12:31	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 12:31	1

Client Sample ID: SVP2-19.5 — **Lab Sample ID: 570-19024-6**
Date Collected: 01/27/20 13:39 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 12:49	1

Method: D1946 - Fixed Gases in Air (GC) (Continued)

Client Sample ID: SVP2-19.5 — **Lab Sample ID: 570-19024-6**
Date Collected: 01/27/20 13:39 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon monoxide	ND		0.50	% v/v			01/28/20 12:49	1
Methane	ND		0.50	% v/v			01/28/20 12:49	1
Nitrogen	**77**		0.50	% v/v			01/28/20 12:49	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 12:49	1

Client Sample ID: SVP3-5 — **Lab Sample ID: 570-19024-7**
Date Collected: 01/27/20 10:57 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 13:07	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 13:07	1
Methane	ND		0.50	% v/v			01/28/20 13:07	1
Nitrogen	**79**		0.50	% v/v			01/28/20 13:07	1
Oxygen + Argon	**21**		0.50	% v/v			01/28/20 13:07	1

Client Sample ID: SVP3-10 — **Lab Sample ID: 570-19024-8**
Date Collected: 01/27/20 11:20 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 13:26	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 13:26	1
Methane	ND		0.50	% v/v			01/28/20 13:26	1
Nitrogen	**78**		0.50	% v/v			01/28/20 13:26	1
Oxygen + Argon	**21**		0.50	% v/v			01/28/20 13:26	1

Client Sample ID: SVP3-19.5 — **Lab Sample ID: 570-19024-9**
Date Collected: 01/27/20 11:49 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 13:43	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 13:43	1
Methane	ND		0.50	% v/v			01/28/20 13:43	1
Nitrogen	**77**		0.50	% v/v			01/28/20 13:43	1
Oxygen + Argon	**21**		0.50	% v/v			01/28/20 13:43	1

Client Sample ID: SVP4-5 — **Lab Sample ID: 570-19024-10**
Date Collected: 01/27/20 14:59 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**1.1**		0.50	% v/v			01/28/20 14:01	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 14:01	1
Methane	ND		0.50	% v/v			01/28/20 14:01	1
Nitrogen	**77**		0.50	% v/v			01/28/20 14:01	1
Oxygen + Argon	**21**		0.50	% v/v			01/28/20 14:01	1

Client Sample ID: SVP4-10 — **Lab Sample ID: 570-19024-11**
Date Collected: 01/27/20 15:12 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**0.82**		0.50	% v/v			01/28/20 14:19	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 14:19	1

Method: D1946 - Fixed Gases in Air (GC) (Continued)

Client Sample ID: SVP4-10 — **Lab Sample ID: 570-19024-11**
Date Collected: 01/27/20 15:12 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		0.50	% v/v			01/28/20 14:19	1
Nitrogen	**78**		0.50	% v/v			01/28/20 14:19	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 14:19	1

Client Sample ID: SVP4-19.5 — **Lab Sample ID: 570-19024-12**
Date Collected: 01/27/20 15:27 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**1.3**		0.50	% v/v			01/28/20 14:37	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 14:37	1
Methane	ND		0.50	% v/v			01/28/20 14:37	1
Nitrogen	**76**		0.50	% v/v			01/28/20 14:37	1
Oxygen + Argon	**21**		0.50	% v/v			01/28/20 14:37	1

Client Sample ID: SVP5-5 — **Lab Sample ID: 570-19024-13**
Date Collected: 01/27/20 15:48 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**0.67**		0.50	% v/v			01/28/20 14:54	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 14:54	1
Methane	ND		0.50	% v/v			01/28/20 14:54	1
Nitrogen	**76**		0.50	% v/v			01/28/20 14:54	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 14:54	1

Client Sample ID: SVP5-10 — **Lab Sample ID: 570-19024-14**
Date Collected: 01/27/20 16:08 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 15:12	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 15:12	1
Methane	ND		0.50	% v/v			01/28/20 15:12	1
Nitrogen	**77**		0.50	% v/v			01/28/20 15:12	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 15:12	1

Client Sample ID: SVP5-15 — **Lab Sample ID: 570-19024-15**
Date Collected: 01/27/20 16:24 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 15:30	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 15:30	1
Methane	ND		0.50	% v/v			01/28/20 15:30	1
Nitrogen	**76**		0.50	% v/v			01/28/20 15:30	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 15:30	1

Method: Fixed Gas Norm - Fixed Gases from Stationary Sources

Client Sample ID: SVP1-5 — **Lab Sample ID: 570-19024-1**
Date Collected: 01/27/20 14:05 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 10:58	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 10:58	1
Methane	ND		0.50	% v/v			01/28/20 10:58	1
Nitrogen	**77**		0.50	% v/v			01/28/20 10:58	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 10:58	1

Client Sample ID: SVP1-10 — **Lab Sample ID: 570-19024-2**
Date Collected: 01/27/20 14:25 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 11:36	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 11:36	1
Methane	ND		0.50	% v/v			01/28/20 11:36	1
Nitrogen	**77**		0.50	% v/v			01/28/20 11:36	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 11:36	1

Client Sample ID: SVP1-19.5 — **Lab Sample ID: 570-19024-3**
Date Collected: 01/27/20 14:41 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 11:54	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 11:54	1
Methane	ND		0.50	% v/v			01/28/20 11:54	1
Nitrogen	**77**		0.50	% v/v			01/28/20 11:54	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 11:54	1

Client Sample ID: SVP2-5 — **Lab Sample ID: 570-19024-4**
Date Collected: 01/27/20 12:22 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 12:13	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 12:13	1
Methane	ND		0.50	% v/v			01/28/20 12:13	1
Nitrogen	**78**		0.50	% v/v			01/28/20 12:13	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 12:13	1

Client Sample ID: SVP2-10 — **Lab Sample ID: 570-19024-5**
Date Collected: 01/27/20 13:14 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 12:31	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 12:31	1
Methane	ND		0.50	% v/v			01/28/20 12:31	1
Nitrogen	**78**		0.50	% v/v			01/28/20 12:31	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 12:31	1

Client Sample ID: SVP2-19.5 — **Lab Sample ID: 570-19024-6**
Date Collected: 01/27/20 13:39 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 12:49	1

Method: Fixed Gas Norm - Fixed Gases from Stationary Sources (Continued)

Client Sample ID: SVP2-19.5 — **Lab Sample ID: 570-19024-6**
Date Collected: 01/27/20 13:39 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon monoxide	ND		0.50	% v/v			01/28/20 12:49	1
Methane	ND		0.50	% v/v			01/28/20 12:49	1
Nitrogen	**78**		0.50	% v/v			01/28/20 12:49	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 12:49	1

Client Sample ID: SVP3-5 — **Lab Sample ID: 570-19024-7**
Date Collected: 01/27/20 10:57 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 13:07	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 13:07	1
Methane	ND		0.50	% v/v			01/28/20 13:07	1
Nitrogen	**79**		0.50	% v/v			01/28/20 13:07	1
Oxygen + Argon	**21**		0.50	% v/v			01/28/20 13:07	1

Client Sample ID: SVP3-10 — **Lab Sample ID: 570-19024-8**
Date Collected: 01/27/20 11:20 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 13:26	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 13:26	1
Methane	ND		0.50	% v/v			01/28/20 13:26	1
Nitrogen	**79**		0.50	% v/v			01/28/20 13:26	1
Oxygen + Argon	**21**		0.50	% v/v			01/28/20 13:26	1

Client Sample ID: SVP3-19.5 — **Lab Sample ID: 570-19024-9**
Date Collected: 01/27/20 11:49 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 13:43	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 13:43	1
Methane	ND		0.50	% v/v			01/28/20 13:43	1
Nitrogen	**78**		0.50	% v/v			01/28/20 13:43	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 13:43	1

Client Sample ID: SVP4-5 — **Lab Sample ID: 570-19024-10**
Date Collected: 01/27/20 14:59 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**1.1**		0.50	% v/v			01/28/20 14:01	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 14:01	1
Methane	ND		0.50	% v/v			01/28/20 14:01	1
Nitrogen	**77**		0.50	% v/v			01/28/20 14:01	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 14:01	1

Client Sample ID: SVP4-10 — **Lab Sample ID: 570-19024-11**
Date Collected: 01/27/20 15:12 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**0.82**		0.50	% v/v			01/28/20 14:19	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 14:19	1

Method: Fixed Gas Norm - Fixed Gases from Stationary Sources (Continued)

Client Sample ID: SVP4-10 — **Lab Sample ID: 570-19024-11**
Date Collected: 01/27/20 15:12 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		0.50	% v/v			01/28/20 14:19	1
Nitrogen	**77**		0.50	% v/v			01/28/20 14:19	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 14:19	1

Client Sample ID: SVP4-19.5 — **Lab Sample ID: 570-19024-12**
Date Collected: 01/27/20 15:27 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**1.3**		0.50	% v/v			01/28/20 14:37	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 14:37	1
Methane	ND		0.50	% v/v			01/28/20 14:37	1
Nitrogen	**78**		0.50	% v/v			01/28/20 14:37	1
Oxygen + Argon	**21**		0.50	% v/v			01/28/20 14:37	1

Client Sample ID: SVP5-5 — **Lab Sample ID: 570-19024-13**
Date Collected: 01/27/20 15:48 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**0.68**		0.50	% v/v			01/28/20 14:54	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 14:54	1
Methane	ND		0.50	% v/v			01/28/20 14:54	1
Nitrogen	**77**		0.50	% v/v			01/28/20 14:54	1
Oxygen + Argon	**22**		0.50	% v/v			01/28/20 14:54	1

Client Sample ID: SVP5-10 — **Lab Sample ID: 570-19024-14**
Date Collected: 01/27/20 16:08 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 15:12	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 15:12	1
Methane	ND		0.50	% v/v			01/28/20 15:12	1
Nitrogen	**77**		0.50	% v/v			01/28/20 15:12	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 15:12	1

Client Sample ID: SVP5-15 — **Lab Sample ID: 570-19024-15**
Date Collected: 01/27/20 16:24 — **Matrix: Air**
Date Received: 01/27/20 19:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 15:30	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 15:30	1
Methane	ND		0.50	% v/v			01/28/20 15:30	1
Nitrogen	**77**		0.50	% v/v			01/28/20 15:30	1
Oxygen + Argon	**23**		0.50	% v/v			01/28/20 15:30	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DCA (47-137)	BFB (57-129)	TOL (78-156)
570-19024-1	SVP1-5	114	101	102
570-19024-2	SVP1-10	118	100	101
570-19024-3	SVP1-19.5	111	100	100
570-19024-4	SVP2-5	111	102	98
570-19024-5	SVP2-10	110	102	100
570-19024-6	SVP2-19.5	110	100	100
570-19024-7	SVP3-5	112	102	103
570-19024-8	SVP3-10	110	103	99
570-19024-9	SVP3-19.5	118	102	97
570-19024-10	SVP4-5	110	103	100
570-19024-11	SVP4-10	100	113	96
570-19024-12	SVP4-19.5	110	115	102
570-19024-13	SVP5-5	103	102	97
570-19024-14	SVP5-10	109	100	97
570-19024-15	SVP5-15	105	108	98
LCS 570-46977/3	Lab Control Sample	101	97	105
LCS 570-47027/3	Lab Control Sample	112	95	98
LCS 570-47256/3	Lab Control Sample	107	97	102
LCS 570-47260/3	Lab Control Sample	88	93	97
LCSD 570-46977/4	Lab Control Sample Dup	109	91	102
LCSD 570-47027/4	Lab Control Sample Dup	111	95	97
LCSD 570-47256/4	Lab Control Sample Dup	102	88	94
LCSD 570-47260/4	Lab Control Sample Dup	91	93	98
MB 570-46977/5	Method Blank	97	94	96
MB 570-47027/6	Method Blank	113	99	97
MB 570-47256/5	Method Blank	100	100	96
MB 570-47260/6	Method Blank	100	93	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 570-46977/5
Matrix: Air
Analysis Batch: 46977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7		ug/m3			01/28/20 12:53	1
1,1,2,2-Tetrachloroethane	ND		6.9		ug/m3			01/28/20 12:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11		ug/m3			01/28/20 12:53	1
1,1,2-Trichloroethane	ND		2.7		ug/m3			01/28/20 12:53	1
1,1-Dichloroethane	ND		2.0		ug/m3			01/28/20 12:53	1
1,1-Dichloroethene	ND		2.0		ug/m3			01/28/20 12:53	1
1,1-Difluoroethane	ND		5.4		ug/m3			01/28/20 12:53	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			01/28/20 12:53	1
1,2,4-Trimethylbenzene	ND		7.4		ug/m3			01/28/20 12:53	1
1,2-Dibromo-3-Chloropropane	ND		14		ug/m3			01/28/20 12:53	1
1,2-Dibromoethane	ND		3.8		ug/m3			01/28/20 12:53	1
1,2-Dichlorobenzene	ND		3.0		ug/m3			01/28/20 12:53	1
1,2-Dichloroethane	ND		2.0		ug/m3			01/28/20 12:53	1
1,2-Dichloropropane	ND		2.3		ug/m3			01/28/20 12:53	1
1,3,5-Trimethylbenzene	ND		2.5		ug/m3			01/28/20 12:53	1
1,3-Dichlorobenzene	ND		3.0		ug/m3			01/28/20 12:53	1
1,4-Dichlorobenzene	ND		3.0		ug/m3			01/28/20 12:53	1
2-Butanone	ND		4.4		ug/m3			01/28/20 12:53	1
2-Hexanone	ND		6.1		ug/m3			01/28/20 12:53	1
4-Ethyltoluene	ND		2.5		ug/m3			01/28/20 12:53	1
4-Methyl-2-pentanone	ND		6.1		ug/m3			01/28/20 12:53	1
Acetone	ND		12		ug/m3			01/28/20 12:53	1
Benzene	ND		1.6		ug/m3			01/28/20 12:53	1
Benzyl chloride	ND		7.8		ug/m3			01/28/20 12:53	1
Bromodichloromethane	ND		3.4		ug/m3			01/28/20 12:53	1
Bromoform	ND		5.2		ug/m3			01/28/20 12:53	1
Bromomethane	ND		1.9		ug/m3			01/28/20 12:53	1
cis-1,2-Dichloroethene	ND		2.0		ug/m3			01/28/20 12:53	1
cis-1,3-Dichloropropene	ND		2.3		ug/m3			01/28/20 12:53	1
Carbon disulfide	ND		16		ug/m3			01/28/20 12:53	1
Carbon tetrachloride	ND		3.1		ug/m3			01/28/20 12:53	1
Chlorobenzene	ND		2.3		ug/m3			01/28/20 12:53	1
Chloroethane	ND		1.3		ug/m3			01/28/20 12:53	1
Chloroform	ND		2.4		ug/m3			01/28/20 12:53	1
Chloromethane	ND		1.0		ug/m3			01/28/20 12:53	1
Dibromochloromethane	ND		4.3		ug/m3			01/28/20 12:53	1
Dichlorodifluoromethane	ND		2.5		ug/m3			01/28/20 12:53	1
Dichlorotetrafluoroethane	ND		14		ug/m3			01/28/20 12:53	1
Ethylbenzene	ND		2.2		ug/m3			01/28/20 12:53	1
Hexachloro-1,3-butadiene	ND		16		ug/m3			01/28/20 12:53	1
Isopropanol	ND		120		ug/m3			01/28/20 12:53	1
Methylene Chloride	ND		17		ug/m3			01/28/20 12:53	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2		ug/m3			01/28/20 12:53	1
n-Butylbenzene	ND		8.2		ug/m3			01/28/20 12:53	1
o-Xylene	ND		2.2		ug/m3			01/28/20 12:53	1
m,p-Xylene	ND		8.7		ug/m3			01/28/20 12:53	1
sec-Butylbenzene	ND		8.2		ug/m3			01/28/20 12:53	1
Styrene	ND		6.4		ug/m3			01/28/20 12:53	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-46977/5
Matrix: Air
Analysis Batch: 46977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 12:53	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/28/20 12:53	1
tert-Butylbenzene	ND		8.2	ug/m3			01/28/20 12:53	1
Tetrachloroethene	ND		3.4	ug/m3			01/28/20 12:53	1
Toluene	ND		19	ug/m3			01/28/20 12:53	1
Trichloroethene	ND		2.7	ug/m3			01/28/20 12:53	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/28/20 12:53	1
Vinyl acetate	ND		7.0	ug/m3			01/28/20 12:53	1
Vinyl chloride	ND		1.3	ug/m3			01/28/20 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*47 - 137*		*01/28/20 12:53*	*1*
4-Bromofluorobenzene (Surr)	*94*		*57 - 129*		*01/28/20 12:53*	*1*
Toluene-d8 (Surr)	*96*		*78 - 156*		*01/28/20 12:53*	*1*

Lab Sample ID: LCS 570-46977/3
Matrix: Air
Analysis Batch: 46977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	136	140.8		ug/m3		103	50 - 150
1,1,2,2-Tetrachloroethane	172	155.9		ug/m3		91	50 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	192	175.5		ug/m3		92	50 - 150
1,1,2-Trichloroethane	136	131.5		ug/m3		96	65 - 149
1,1-Dichloroethane	101	97.31		ug/m3		96	50 - 150
1,1-Dichloroethene	99.1	95.58		ug/m3		96	50 - 150
1,1-Difluoroethane	67.5	57.62		ug/m3		85	60 - 140
1,2,4-Trichlorobenzene	186	157.3		ug/m3		85	50 - 150
1,2,4-Trimethylbenzene	123	110.2		ug/m3		90	50 - 150
1,2-Dibromo-3-Chloropropane	242	226.7		ug/m3		94	60 - 140
1,2-Dibromoethane	192	189.1		ug/m3		98	54 - 144
1,2-Dichlorobenzene	150	140.5		ug/m3		93	34 - 160
1,2-Dichloroethane	101	100.6		ug/m3		99	69 - 153
1,2-Dichloropropane	116	109.4		ug/m3		95	67 - 157
1,3,5-Trimethylbenzene	123	115.0		ug/m3		94	50 - 150
1,3-Dichlorobenzene	150	140.5		ug/m3		93	50 - 150
1,4-Dichlorobenzene	150	139.1		ug/m3		93	36 - 156
2-Butanone	73.7	68.90		ug/m3		93	50 - 150
2-Hexanone	102	94.29		ug/m3		92	50 - 150
4-Ethyltoluene	123	117.9		ug/m3		96	50 - 150
4-Methyl-2-pentanone	102	96.05		ug/m3		94	50 - 150
Acetone	59.4	57.74		ug/m3		97	50 - 150
Benzene	79.9	85.77		ug/m3		107	60 - 156
Benzyl chloride	129	110.4		ug/m3		85	50 - 150
Bromodichloromethane	168	171.4		ug/m3		102	50 - 150
Bromoform	258	258.7		ug/m3		100	50 - 150
Bromomethane	97.1	93.82		ug/m3		97	50 - 150
cis-1,2-Dichloroethene	99.1	96.30		ug/m3		97	50 - 150

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-46977/3
Matrix: Air
Analysis Batch: 46977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	113	107.0		ug/m3		94	61 - 157
Carbon disulfide	77.9	81.33		ug/m3		104	50 - 150
Carbon tetrachloride	157	154.3		ug/m3		98	64 - 154
Chlorobenzene	115	108.6		ug/m3		94	50 - 150
Chloroethane	66.0	59.40		ug/m3		90	50 - 150
Chloroform	122	116.2		ug/m3		95	50 - 150
Chloromethane	51.6	47.65		ug/m3		92	50 - 150
Dibromochloromethane	213	206.4		ug/m3		97	50 - 150
Dichlorodifluoromethane	124	127.9		ug/m3		103	50 - 150
Dichlorotetrafluoroethane	175	165.1		ug/m3		94	50 - 150
Ethylbenzene	109	109.3		ug/m3		101	52 - 154
Hexachloro-1,3-butadiene	267	218.6		ug/m3		82	50 - 150
Isopropanol	61.5	54.36	J	ug/m3		88	50 - 150
Methylene Chloride	86.8	79.44		ug/m3		91	50 - 150
Methyl-t-Butyl Ether (MTBE)	90.1	77.56		ug/m3		86	50 - 150
n-Butylbenzene	137	130.5		ug/m3		95	50 - 150
o-Xylene	109	106.5		ug/m3		98	52 - 148
m,p-Xylene	217	204.1		ug/m3		94	42 - 156
sec-Butylbenzene	137	118.6		ug/m3		86	50 - 150
Styrene	106	102.2		ug/m3		96	50 - 150
trans-1,2-Dichloroethene	99.1	103.0		ug/m3		104	50 - 150
trans-1,3-Dichloropropene	113	115.9		ug/m3		102	50 - 150
tert-Butylbenzene	137	123.9		ug/m3		90	50 - 150
Tetrachloroethene	170	162.2		ug/m3		96	56 - 152
Toluene	94.2	90.53		ug/m3		96	56 - 146
Trichloroethene	134	128.5		ug/m3		96	63 - 159
Trichlorofluoromethane	140	146.2		ug/m3		104	50 - 150
Vinyl acetate	88.0	81.00		ug/m3		92	50 - 150
Vinyl chloride	63.9	59.42		ug/m3		93	45 - 177

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*47 - 137*
4-Bromofluorobenzene (Surr)	*97*		*57 - 129*
Toluene-d8 (Surr)	*105*		*78 - 156*

Lab Sample ID: LCSD 570-46977/4
Matrix: Air
Analysis Batch: 46977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	136	143.2		ug/m3		105	50 - 150	2	35
1,1,2,2-Tetrachloroethane	172	145.2		ug/m3		85	50 - 150	7	35
1,1,2-Trichloro-1,2,2-trifluoroethane	192	189.7		ug/m3		99	50 - 150	8	35
1,1,2-Trichloroethane	136	136.2		ug/m3		100	65 - 149	3	37
1,1-Dichloroethane	101	104.7		ug/m3		103	50 - 150	7	35
1,1-Dichloroethene	99.1	96.65		ug/m3		98	50 - 150	1	35
1,1-Difluoroethane	67.5	62.24		ug/m3		92	60 - 140	8	30
1,2,4-Trichlorobenzene	186	152.8		ug/m3		82	50 - 150	3	35

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-46977/4
Matrix: Air
Analysis Batch: 46977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	123	113.2		ug/m3		92	50 - 150	3	35
1,2-Dibromo-3-Chloropropane	242	206.1		ug/m3		85	60 - 140	10	30
1,2-Dibromoethane	192	171.6		ug/m3		89	54 - 144	10	36
1,2-Dichlorobenzene	150	136.3		ug/m3		91	34 - 160	3	47
1,2-Dichloroethane	101	110.1		ug/m3		109	69 - 153	9	35
1,2-Dichloropropane	116	112.3		ug/m3		97	67 - 157	3	35
1,3,5-Trimethylbenzene	123	107.9		ug/m3		88	50 - 150	6	35
1,3-Dichlorobenzene	150	131.8		ug/m3		88	50 - 150	6	35
1,4-Dichlorobenzene	150	131.7		ug/m3		88	36 - 156	5	47
2-Butanone	73.7	72.53		ug/m3		98	50 - 150	5	35
2-Hexanone	102	98.52		ug/m3		96	50 - 150	4	35
4-Ethyltoluene	123	106.8		ug/m3		87	50 - 150	10	35
4-Methyl-2-pentanone	102	96.10		ug/m3		94	50 - 150	0	35
Acetone	59.4	59.53		ug/m3		100	50 - 150	3	35
Benzene	79.9	82.15		ug/m3		103	60 - 156	4	40
Benzyl chloride	129	105.1		ug/m3		81	50 - 150	5	35
Bromodichloromethane	168	164.7		ug/m3		98	50 - 150	4	35
Bromoform	258	244.9		ug/m3		95	50 - 150	5	38
Bromomethane	97.1	98.57		ug/m3		102	50 - 150	5	35
cis-1,2-Dichloroethene	99.1	103.5		ug/m3		104	50 - 150	7	35
cis-1,3-Dichloropropene	113	103.9		ug/m3		92	61 - 157	3	35
Carbon disulfide	77.9	87.11		ug/m3		112	50 - 150	7	35
Carbon tetrachloride	157	154.9		ug/m3		99	64 - 154	0	32
Chlorobenzene	115	106.7		ug/m3		93	50 - 150	2	35
Chloroethane	66.0	68.11		ug/m3		103	50 - 150	14	35
Chloroform	122	128.6		ug/m3		105	50 - 150	10	35
Chloromethane	51.6	49.70		ug/m3		96	50 - 150	4	35
Dibromochloromethane	213	197.2		ug/m3		93	50 - 150	5	35
Dichlorodifluoromethane	124	135.4		ug/m3		110	50 - 150	6	35
Dichlorotetrafluoroethane	175	175.4		ug/m3		100	50 - 150	6	35
Ethylbenzene	109	103.1		ug/m3		95	52 - 154	6	38
Hexachloro-1,3-butadiene	267	200.4		ug/m3		75	50 - 150	9	35
Isopropanol	61.5	57.75	J	ug/m3		94	50 - 150	6	35
Methylene Chloride	86.8	81.08		ug/m3		93	50 - 150	2	35
Methyl-t-Butyl Ether (MTBE)	90.1	88.74		ug/m3		98	50 - 150	13	35
n-Butylbenzene	137	121.6		ug/m3		89	50 - 150	7	30
o-Xylene	109	100.5		ug/m3		93	52 - 148	6	38
m,p-Xylene	217	201.9		ug/m3		93	42 - 156	1	41
sec-Butylbenzene	137	118.2		ug/m3		86	50 - 150	0	30
Styrene	106	96.67		ug/m3		91	50 - 150	6	35
trans-1,2-Dichloroethene	99.1	103.9		ug/m3		105	50 - 150	1	35
trans-1,3-Dichloropropene	113	116.8		ug/m3		103	50 - 150	1	35
tert-Butylbenzene	137	124.4		ug/m3		91	50 - 150	0	30
Tetrachloroethene	170	157.8		ug/m3		93	56 - 152	3	40
Toluene	94.2	90.71		ug/m3		96	56 - 146	0	43
Trichloroethene	134	131.4		ug/m3		98	63 - 159	2	34
Trichlorofluoromethane	140	148.4		ug/m3		106	50 - 150	1	35
Vinyl acetate	88.0	84.48		ug/m3		96	50 - 150	4	35
Vinyl chloride	63.9	61.68		ug/m3		97	45 - 177	4	36

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		47 - 137
4-Bromofluorobenzene (Surr)	91		57 - 129
Toluene-d8 (Surr)	102		78 - 156

Lab Sample ID: MB 570-47027/6
Matrix: Air
Analysis Batch: 47027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/28/20 14:28	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/28/20 14:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/28/20 14:28	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/28/20 14:28	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/28/20 14:28	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/28/20 14:28	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/28/20 14:28	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/28/20 14:28	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/28/20 14:28	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/28/20 14:28	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/28/20 14:28	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 14:28	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/28/20 14:28	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/28/20 14:28	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/28/20 14:28	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 14:28	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/28/20 14:28	1
2-Butanone	ND		4.4	ug/m3			01/28/20 14:28	1
2-Hexanone	ND		6.1	ug/m3			01/28/20 14:28	1
4-Ethyltoluene	ND		2.5	ug/m3			01/28/20 14:28	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/28/20 14:28	1
Acetone	ND		12	ug/m3			01/28/20 14:28	1
Benzene	ND		1.6	ug/m3			01/28/20 14:28	1
Benzyl chloride	ND		7.8	ug/m3			01/28/20 14:28	1
Bromodichloromethane	ND		3.4	ug/m3			01/28/20 14:28	1
Bromoform	ND		5.2	ug/m3			01/28/20 14:28	1
Bromomethane	ND		1.9	ug/m3			01/28/20 14:28	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 14:28	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/28/20 14:28	1
Carbon disulfide	ND		16	ug/m3			01/28/20 14:28	1
Carbon tetrachloride	ND		3.1	ug/m3			01/28/20 14:28	1
Chlorobenzene	ND		2.3	ug/m3			01/28/20 14:28	1
Chloroethane	ND		1.3	ug/m3			01/28/20 14:28	1
Chloroform	ND		2.4	ug/m3			01/28/20 14:28	1
Chloromethane	ND		1.0	ug/m3			01/28/20 14:28	1
Dibromochloromethane	ND		4.3	ug/m3			01/28/20 14:28	1
Dichlorodifluoromethane	ND		2.5	ug/m3			01/28/20 14:28	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/28/20 14:28	1
Ethylbenzene	ND		2.2	ug/m3			01/28/20 14:28	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/28/20 14:28	1
Isopropanol	ND		120	ug/m3			01/28/20 14:28	1
Methylene Chloride	ND		17	ug/m3			01/28/20 14:28	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-47027/6
Matrix: Air
Analysis Batch: 47027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/28/20 14:28	1
n-Butylbenzene	ND		8.2	ug/m3			01/28/20 14:28	1
o-Xylene	ND		2.2	ug/m3			01/28/20 14:28	1
m,p-Xylene	ND		8.7	ug/m3			01/28/20 14:28	1
sec-Butylbenzene	ND		8.2	ug/m3			01/28/20 14:28	1
Styrene	ND		6.4	ug/m3			01/28/20 14:28	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/28/20 14:28	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/28/20 14:28	1
tert-Butylbenzene	ND		8.2	ug/m3			01/28/20 14:28	1
Tetrachloroethene	ND		3.4	ug/m3			01/28/20 14:28	1
Toluene	ND		19	ug/m3			01/28/20 14:28	1
Trichloroethene	ND		2.7	ug/m3			01/28/20 14:28	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/28/20 14:28	1
Vinyl acetate	ND		7.0	ug/m3			01/28/20 14:28	1
Vinyl chloride	ND		1.3	ug/m3			01/28/20 14:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*47 - 137*		*01/28/20 14:28*	*1*
4-Bromofluorobenzene (Surr)	*99*		*57 - 129*		*01/28/20 14:28*	*1*
Toluene-d8 (Surr)	*97*		*78 - 156*		*01/28/20 14:28*	*1*

Lab Sample ID: LCS 570-47027/3
Matrix: Air
Analysis Batch: 47027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	136	133.8		ug/m3		98	50 - 150
1,1,2,2-Tetrachloroethane	172	144.0		ug/m3		84	50 - 150
1,1,2-Trichloro-1,2,2-trifluoroetha ne	192	178.1		ug/m3		93	50 - 150
1,1,2-Trichloroethane	136	120.8		ug/m3		89	65 - 149
1,1-Dichloroethane	101	94.71		ug/m3		94	50 - 150
1,1-Dichloroethene	99.1	89.14		ug/m3		90	50 - 150
1,1-Difluoroethane	67.5	64.90		ug/m3		96	60 - 140
1,2,4-Trichlorobenzene	186	150.0		ug/m3		81	50 - 150
1,2,4-Trimethylbenzene	123	102.5		ug/m3		83	50 - 150
1,2-Dibromo-3-Chloropropane	242	206.8		ug/m3		86	60 - 140
1,2-Dibromoethane	192	168.8		ug/m3		88	54 - 144
1,2-Dichlorobenzene	150	124.1		ug/m3		83	34 - 160
1,2-Dichloroethane	101	96.59		ug/m3		95	69 - 153
1,2-Dichloropropane	116	100.9		ug/m3		87	67 - 157
1,3,5-Trimethylbenzene	123	105.0		ug/m3		85	50 - 150
1,3-Dichlorobenzene	150	123.1		ug/m3		82	50 - 150
1,4-Dichlorobenzene	150	124.0		ug/m3		83	36 - 156
2-Butanone	73.7	66.86		ug/m3		91	50 - 150
2-Hexanone	102	89.10		ug/m3		87	50 - 150
4-Ethyltoluene	123	104.9		ug/m3		85	50 - 150
4-Methyl-2-pentanone	102	88.75		ug/m3		87	50 - 150
Acetone	59.4	57.26		ug/m3		96	50 - 150

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-47027/3
Matrix: Air
Analysis Batch: 47027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	79.9	73.36		ug/m3		92	60 - 156
Benzyl chloride	129	105.2		ug/m3		81	50 - 150
Bromodichloromethane	168	149.8		ug/m3		89	50 - 150
Bromoform	258	229.3		ug/m3		89	50 - 150
Bromomethane	97.1	94.06		ug/m3		97	50 - 150
cis-1,2-Dichloroethene	99.1	96.78		ug/m3		98	50 - 150
cis-1,3-Dichloropropene	113	99.20		ug/m3		87	61 - 157
Carbon disulfide	77.9	78.63		ug/m3		101	50 - 150
Carbon tetrachloride	157	141.5		ug/m3		90	64 - 154
Chlorobenzene	115	98.95		ug/m3		86	50 - 150
Chloroethane	66.0	62.71		ug/m3		95	50 - 150
Chloroform	122	113.9		ug/m3		93	50 - 150
Chloromethane	51.6	49.93		ug/m3		97	50 - 150
Dibromochloromethane	213	184.0		ug/m3		86	50 - 150
Dichlorodifluoromethane	124	124.3		ug/m3		101	50 - 150
Dichlorotetrafluoroethane	175	170.8		ug/m3		98	50 - 150
Ethylbenzene	109	98.21		ug/m3		90	52 - 154
Hexachloro-1,3-butadiene	267	217.1		ug/m3		81	50 - 150
Isopropanol	61.5	51.61	J	ug/m3		84	50 - 150
Methylene Chloride	86.8	73.84		ug/m3		85	50 - 150
Methyl-t-Butyl Ether (MTBE)	90.1	86.20		ug/m3		96	50 - 150
n-Butylbenzene	137	117.0		ug/m3		85	50 - 150
o-Xylene	109	96.22		ug/m3		89	52 - 148
m,p-Xylene	217	192.2		ug/m3		89	42 - 156
sec-Butylbenzene	137	111.8		ug/m3		81	50 - 150
Styrene	106	94.18		ug/m3		88	50 - 150
trans-1,2-Dichloroethene	99.1	98.79		ug/m3		100	50 - 150
trans-1,3-Dichloropropene	113	103.2		ug/m3		91	50 - 150
tert-Butylbenzene	137	115.2		ug/m3		84	50 - 150
Tetrachloroethene	170	142.9		ug/m3		84	56 - 152
Toluene	94.2	82.95		ug/m3		88	56 - 146
Trichloroethene	134	118.8		ug/m3		88	63 - 159
Trichlorofluoromethane	140	135.1		ug/m3		96	50 - 150
Vinyl acetate	88.0	77.64		ug/m3		88	50 - 150
Vinyl chloride	63.9	60.11		ug/m3		94	45 - 177

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*47 - 137*
4-Bromofluorobenzene (Surr)	*95*		*57 - 129*
Toluene-d8 (Surr)	*98*		*78 - 156*

Lab Sample ID: LCSD 570-47027/4
Matrix: Air
Analysis Batch: 47027

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	136	134.3		ug/m3		98	50 - 150	0	35
1,1,2,2-Tetrachloroethane	172	146.1		ug/m3		85	50 - 150	1	35

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-47027/4
Matrix: Air
Analysis Batch: 47027

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	192	180.5		ug/m3		94	50 - 150	1	35
1,1,2-Trichloroethane	136	122.0		ug/m3		89	65 - 149	1	37
1,1-Dichloroethane	101	95.97		ug/m3		95	50 - 150	1	35
1,1-Dichloroethene	99.1	90.74		ug/m3		92	50 - 150	2	35
1,1-Difluoroethane	67.5	64.24		ug/m3		95	60 - 140	1	30
1,2,4-Trichlorobenzene	186	149.2		ug/m3		80	50 - 150	0	35
1,2,4-Trimethylbenzene	123	102.9		ug/m3		84	50 - 150	0	35
1,2-Dibromo-3-Chloropropane	242	206.5		ug/m3		85	60 - 140	0	30
1,2-Dibromoethane	192	171.7		ug/m3		89	54 - 144	2	36
1,2-Dichlorobenzene	150	124.4		ug/m3		83	34 - 160	0	47
1,2-Dichloroethane	101	96.15		ug/m3		95	69 - 153	0	35
1,2-Dichloropropane	116	101.7		ug/m3		88	67 - 157	1	35
1,3,5-Trimethylbenzene	123	105.8		ug/m3		86	50 - 150	1	35
1,3-Dichlorobenzene	150	122.8		ug/m3		82	50 - 150	0	35
1,4-Dichlorobenzene	150	124.5		ug/m3		83	36 - 156	0	47
2-Butanone	73.7	68.79		ug/m3		93	50 - 150	3	35
2-Hexanone	102	88.62		ug/m3		86	50 - 150	1	35
4-Ethyltoluene	123	106.0		ug/m3		86	50 - 150	1	35
4-Methyl-2-pentanone	102	89.20		ug/m3		87	50 - 150	1	35
Acetone	59.4	58.27		ug/m3		98	50 - 150	2	35
Benzene	79.9	74.27		ug/m3		93	60 - 156	1	40
Benzyl chloride	129	104.7		ug/m3		81	50 - 150	0	35
Bromodichloromethane	168	150.9		ug/m3		90	50 - 150	1	35
Bromoform	258	230.5		ug/m3		89	50 - 150	1	38
Bromomethane	97.1	95.09		ug/m3		98	50 - 150	1	35
cis-1,2-Dichloroethene	99.1	98.54		ug/m3		99	50 - 150	2	35
cis-1,3-Dichloropropene	113	100.4		ug/m3		88	61 - 157	1	35
Carbon disulfide	77.9	79.48		ug/m3		102	50 - 150	1	35
Carbon tetrachloride	157	141.8		ug/m3		90	64 - 154	0	32
Chlorobenzene	115	100.5		ug/m3		87	50 - 150	2	35
Chloroethane	66.0	63.58		ug/m3		96	50 - 150	1	35
Chloroform	122	115.2		ug/m3		94	50 - 150	1	35
Chloromethane	51.6	49.58		ug/m3		96	50 - 150	1	35
Dibromochloromethane	213	187.7		ug/m3		88	50 - 150	2	35
Dichlorodifluoromethane	124	122.6		ug/m3		99	50 - 150	1	35
Dichlorotetrafluoroethane	175	172.5		ug/m3		99	50 - 150	1	35
Ethylbenzene	109	98.65		ug/m3		91	52 - 154	0	38
Hexachloro-1,3-butadiene	267	213.3		ug/m3		80	50 - 150	2	35
Isopropanol	61.5	53.38	J	ug/m3		87	50 - 150	3	35
Methylene Chloride	86.8	77.31		ug/m3		89	50 - 150	5	35
Methyl-t-Butyl Ether (MTBE)	90.1	87.66		ug/m3		97	50 - 150	2	35
n-Butylbenzene	137	116.3		ug/m3		85	50 - 150	1	30
o-Xylene	109	97.35		ug/m3		90	52 - 148	1	38
m,p-Xylene	217	193.8		ug/m3		89	42 - 156	1	41
sec-Butylbenzene	137	112.0		ug/m3		82	50 - 150	0	30
Styrene	106	95.96		ug/m3		90	50 - 150	2	35
trans-1,2-Dichloroethene	99.1	99.73		ug/m3		101	50 - 150	1	35
trans-1,3-Dichloropropene	113	103.5		ug/m3		91	50 - 150	0	35

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-47027/4
Matrix: Air
Analysis Batch: 47027

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene	137	115.7		ug/m3		84	50 - 150	0	30
Tetrachloroethene	170	144.7		ug/m3		85	56 - 152	1	40
Toluene	94.2	83.98		ug/m3		89	56 - 146	1	43
Trichloroethene	134	120.4		ug/m3		90	63 - 159	1	34
Trichlorofluoromethane	140	136.2		ug/m3		97	50 - 150	1	35
Vinyl acetate	88.0	79.37		ug/m3		90	50 - 150	2	35
Vinyl chloride	63.9	60.59		ug/m3		95	45 - 177	1	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*47 - 137*
4-Bromofluorobenzene (Surr)	*95*		*57 - 129*
Toluene-d8 (Surr)	*97*		*78 - 156*

Lab Sample ID: MB 570-47256/5
Matrix: Air
Analysis Batch: 47256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/29/20 13:05	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/29/20 13:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/29/20 13:05	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/29/20 13:05	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/29/20 13:05	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/29/20 13:05	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/29/20 13:05	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/29/20 13:05	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/29/20 13:05	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/29/20 13:05	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/29/20 13:05	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 13:05	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/29/20 13:05	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/29/20 13:05	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/29/20 13:05	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 13:05	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 13:05	1
2-Butanone	ND		4.4	ug/m3			01/29/20 13:05	1
2-Hexanone	ND		6.1	ug/m3			01/29/20 13:05	1
4-Ethyltoluene	ND		2.5	ug/m3			01/29/20 13:05	1
4-Methyl-2-pentanone	ND		6.1	ug/m3			01/29/20 13:05	1
Acetone	ND		12	ug/m3			01/29/20 13:05	1
Benzene	ND		1.6	ug/m3			01/29/20 13:05	1
Benzyl chloride	ND		7.8	ug/m3			01/29/20 13:05	1
Bromodichloromethane	ND		3.4	ug/m3			01/29/20 13:05	1
Bromoform	ND		5.2	ug/m3			01/29/20 13:05	1
Bromomethane	ND		1.9	ug/m3			01/29/20 13:05	1
cis-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 13:05	1
cis-1,3-Dichloropropene	ND		2.3	ug/m3			01/29/20 13:05	1
Carbon disulfide	ND		16	ug/m3			01/29/20 13:05	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-47256/5
Matrix: Air
Analysis Batch: 47256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		3.1	ug/m3			01/29/20 13:05	1
Chlorobenzene	ND		2.3	ug/m3			01/29/20 13:05	1
Chloroethane	ND		1.3	ug/m3			01/29/20 13:05	1
Chloroform	ND		2.4	ug/m3			01/29/20 13:05	1
Chloromethane	ND		1.0	ug/m3			01/29/20 13:05	1
Dibromochloromethane	ND		4.3	ug/m3			01/29/20 13:05	1
Dichlorodifluoromethane	ND		2.5	ug/m3			01/29/20 13:05	1
Dichlorotetrafluoroethane	ND		14	ug/m3			01/29/20 13:05	1
Ethylbenzene	ND		2.2	ug/m3			01/29/20 13:05	1
Hexachloro-1,3-butadiene	ND		16	ug/m3			01/29/20 13:05	1
Isopropanol	ND		120	ug/m3			01/29/20 13:05	1
Methylene Chloride	ND		17	ug/m3			01/29/20 13:05	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	ug/m3			01/29/20 13:05	1
n-Butylbenzene	ND		8.2	ug/m3			01/29/20 13:05	1
o-Xylene	ND		2.2	ug/m3			01/29/20 13:05	1
m,p-Xylene	ND		8.7	ug/m3			01/29/20 13:05	1
sec-Butylbenzene	ND		8.2	ug/m3			01/29/20 13:05	1
Styrene	ND		6.4	ug/m3			01/29/20 13:05	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			01/29/20 13:05	1
trans-1,3-Dichloropropene	ND		4.5	ug/m3			01/29/20 13:05	1
tert-Butylbenzene	ND		8.2	ug/m3			01/29/20 13:05	1
Tetrachloroethene	ND		3.4	ug/m3			01/29/20 13:05	1
Toluene	ND		19	ug/m3			01/29/20 13:05	1
Trichloroethene	ND		2.7	ug/m3			01/29/20 13:05	1
Trichlorofluoromethane	ND		5.6	ug/m3			01/29/20 13:05	1
Vinyl acetate	ND		7.0	ug/m3			01/29/20 13:05	1
Vinyl chloride	ND		1.3	ug/m3			01/29/20 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*47 - 137*		*01/29/20 13:05*	*1*
4-Bromofluorobenzene (Surr)	*100*		*57 - 129*		*01/29/20 13:05*	*1*
Toluene-d8 (Surr)	*96*		*78 - 156*		*01/29/20 13:05*	*1*

Lab Sample ID: LCS 570-47256/3
Matrix: Air
Analysis Batch: 47256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	136	157.7		ug/m3		116	50 - 150
1,1,2,2-Tetrachloroethane	172	158.5		ug/m3		92	50 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	192	199.7		ug/m3		104	50 - 150
1,1,2-Trichloroethane	136	131.9		ug/m3		97	65 - 149
1,1-Dichloroethane	101	109.6		ug/m3		108	50 - 150
1,1-Dichloroethene	99.1	109.6		ug/m3		111	50 - 150
1,1-Difluoroethane	67.5	62.71		ug/m3		93	60 - 140
1,2,4-Trichlorobenzene	186	159.2		ug/m3		86	50 - 150
1,2,4-Trimethylbenzene	123	117.3		ug/m3		95	50 - 150
1,2-Dibromo-3-Chloropropane	242	218.1		ug/m3		90	60 - 140

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-47256/3
Matrix: Air
Analysis Batch: 47256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	192	185.3		ug/m3		96	54 - 144
1,2-Dichlorobenzene	150	150.0		ug/m3		100	34 - 160
1,2-Dichloroethane	101	120.5		ug/m3		119	69 - 153
1,2-Dichloropropane	116	107.1		ug/m3		93	67 - 157
1,3,5-Trimethylbenzene	123	120.1		ug/m3		98	50 - 150
1,3-Dichlorobenzene	150	147.8		ug/m3		98	50 - 150
1,4-Dichlorobenzene	150	145.7		ug/m3		97	36 - 156
2-Butanone	73.7	73.99		ug/m3		100	50 - 150
2-Hexanone	102	97.54		ug/m3		95	50 - 150
4-Ethyltoluene	123	119.4		ug/m3		97	50 - 150
4-Methyl-2-pentanone	102	90.30		ug/m3		88	50 - 150
Acetone	59.4	66.16		ug/m3		111	50 - 150
Benzene	79.9	83.46		ug/m3		104	60 - 156
Benzyl chloride	129	115.1		ug/m3		89	50 - 150
Bromodichloromethane	168	168.8		ug/m3		101	50 - 150
Bromoform	258	260.0		ug/m3		101	50 - 150
Bromomethane	97.1	109.9		ug/m3		113	50 - 150
cis-1,2-Dichloroethene	99.1	105.7		ug/m3		107	50 - 150
cis-1,3-Dichloropropene	113	99.92		ug/m3		88	61 - 157
Carbon disulfide	77.9	90.43		ug/m3		116	50 - 150
Carbon tetrachloride	157	166.1		ug/m3		106	64 - 154
Chlorobenzene	115	107.4		ug/m3		93	50 - 150
Chloroethane	66.0	66.29		ug/m3		100	50 - 150
Chloroform	122	132.3		ug/m3		108	50 - 150
Chloromethane	51.6	51.44		ug/m3		100	50 - 150
Dibromochloromethane	213	213.7		ug/m3		100	50 - 150
Dichlorodifluoromethane	124	154.7		ug/m3		125	50 - 150
Dichlorotetrafluoroethane	175	184.9		ug/m3		106	50 - 150
Ethylbenzene	109	106.7		ug/m3		98	52 - 154
Hexachloro-1,3-butadiene	267	222.0		ug/m3		83	50 - 150
Isopropanol	61.5	60.80	J	ug/m3		99	50 - 150
Methylene Chloride	86.8	89.74		ug/m3		103	50 - 150
Methyl-t-Butyl Ether (MTBE)	90.1	97.27		ug/m3		108	50 - 150
n-Butylbenzene	137	127.2		ug/m3		93	50 - 150
o-Xylene	109	105.5		ug/m3		97	52 - 148
m,p-Xylene	217	202.5		ug/m3		93	42 - 156
sec-Butylbenzene	137	123.1		ug/m3		90	50 - 150
Styrene	106	103.3		ug/m3		97	50 - 150
trans-1,2-Dichloroethene	99.1	105.5		ug/m3		106	50 - 150
trans-1,3-Dichloropropene	113	112.6		ug/m3		99	50 - 150
tert-Butylbenzene	137	129.8		ug/m3		95	50 - 150
Tetrachloroethene	170	166.6		ug/m3		98	56 - 152
Toluene	94.2	90.65		ug/m3		96	56 - 146
Trichloroethene	134	133.2		ug/m3		99	63 - 159
Trichlorofluoromethane	140	174.7		ug/m3		124	50 - 150
Vinyl acetate	88.0	87.91		ug/m3		100	50 - 150
Vinyl chloride	63.9	63.56		ug/m3		99	45 - 177

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-47256/3
Matrix: Air
Analysis Batch: 47256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		47 - 137
4-Bromofluorobenzene (Surr)	97		57 - 129
Toluene-d8 (Surr)	102		78 - 156

Lab Sample ID: LCSD 570-47256/4
Matrix: Air
Analysis Batch: 47256

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	136	146.1		ug/m3		107	50 - 150	8	35
1,1,2,2-Tetrachloroethane	172	148.9		ug/m3		87	50 - 150	6	35
1,1,2-Trichloro-1,2,2-trifluoroethane	192	179.6		ug/m3		94	50 - 150	11	35
1,1,2-Trichloroethane	136	127.7		ug/m3		94	65 - 149	3	37
1,1-Dichloroethane	101	101.0		ug/m3		100	50 - 150	8	35
1,1-Dichloroethene	99.1	95.88		ug/m3		97	50 - 150	13	35
1,1-Difluoroethane	67.5	57.53		ug/m3		85	60 - 140	9	30
1,2,4-Trichlorobenzene	186	154.8		ug/m3		83	50 - 150	3	35
1,2,4-Trimethylbenzene	123	109.9		ug/m3		89	50 - 150	6	35
1,2-Dibromo-3-Chloropropane	242	210.8		ug/m3		87	60 - 140	3	30
1,2-Dibromoethane	192	176.8		ug/m3		92	54 - 144	5	36
1,2-Dichlorobenzene	150	135.3		ug/m3		90	34 - 160	10	47
1,2-Dichloroethane	101	110.3		ug/m3		109	69 - 153	9	35
1,2-Dichloropropane	116	108.1		ug/m3		94	67 - 157	1	35
1,3,5-Trimethylbenzene	123	108.8		ug/m3		89	50 - 150	10	35
1,3-Dichlorobenzene	150	134.3		ug/m3		89	50 - 150	10	35
1,4-Dichlorobenzene	150	135.7		ug/m3		90	36 - 156	7	47
2-Butanone	73.7	71.22		ug/m3		97	50 - 150	4	35
2-Hexanone	102	84.75		ug/m3		83	50 - 150	14	35
4-Ethyltoluene	123	108.1		ug/m3		88	50 - 150	10	35
4-Methyl-2-pentanone	102	89.75		ug/m3		88	50 - 150	1	35
Acetone	59.4	57.16		ug/m3		96	50 - 150	15	35
Benzene	79.9	79.68		ug/m3		100	60 - 156	5	40
Benzyl chloride	129	103.3		ug/m3		80	50 - 150	11	35
Bromodichloromethane	168	167.6		ug/m3		100	50 - 150	1	35
Bromoform	258	251.6		ug/m3		97	50 - 150	3	38
Bromomethane	97.1	95.35		ug/m3		98	50 - 150	14	35
cis-1,2-Dichloroethene	99.1	98.87		ug/m3		100	50 - 150	7	35
cis-1,3-Dichloropropene	113	102.1		ug/m3		90	61 - 157	2	35
Carbon disulfide	77.9	80.50		ug/m3		103	50 - 150	12	35
Carbon tetrachloride	157	159.7		ug/m3		102	64 - 154	4	32
Chlorobenzene	115	104.3		ug/m3		91	50 - 150	3	35
Chloroethane	66.0	62.40		ug/m3		95	50 - 150	6	35
Chloroform	122	128.8		ug/m3		106	50 - 150	3	35
Chloromethane	51.6	45.86		ug/m3		89	50 - 150	11	35
Dibromochloromethane	213	200.3		ug/m3		94	50 - 150	6	35
Dichlorodifluoromethane	124	136.1		ug/m3		110	50 - 150	13	35
Dichlorotetrafluoroethane	175	169.4		ug/m3		97	50 - 150	9	35
Ethylbenzene	109	100.7		ug/m3		93	52 - 154	6	38

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-47256/4
Matrix: Air
Analysis Batch: 47256

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloro-1,3-butadiene	267	202.0		ug/m3		76	50 - 150	9	35
Isopropanol	61.5	54.05	J	ug/m3		88	50 - 150	12	35
Methylene Chloride	86.8	81.04		ug/m3		93	50 - 150	10	35
Methyl-t-Butyl Ether (MTBE)	90.1	91.37		ug/m3		101	50 - 150	6	35
n-Butylbenzene	137	112.9		ug/m3		82	50 - 150	12	30
o-Xylene	109	101.3		ug/m3		93	52 - 148	4	38
m,p-Xylene	217	198.1		ug/m3		91	42 - 156	2	41
sec-Butylbenzene	137	112.0		ug/m3		82	50 - 150	9	30
Styrene	106	96.77		ug/m3		91	50 - 150	7	35
trans-1,2-Dichloroethene	99.1	103.6		ug/m3		104	50 - 150	2	35
trans-1,3-Dichloropropene	113	110.5		ug/m3		97	50 - 150	2	35
tert-Butylbenzene	137	120.4		ug/m3		88	50 - 150	7	30
Tetrachloroethene	170	155.2		ug/m3		92	56 - 152	7	40
Toluene	94.2	86.12		ug/m3		91	56 - 146	5	43
Trichloroethene	134	128.1		ug/m3		95	63 - 159	4	34
Trichlorofluoromethane	140	158.8		ug/m3		113	50 - 150	10	35
Vinyl acetate	88.0	80.79		ug/m3		92	50 - 150	8	35
Vinyl chloride	63.9	58.57		ug/m3		92	45 - 177	8	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*47 - 137*
4-Bromofluorobenzene (Surr)	*88*		*57 - 129*
Toluene-d8 (Surr)	*94*		*78 - 156*

Lab Sample ID: MB 570-47260/6
Matrix: Air
Analysis Batch: 47260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	ug/m3			01/29/20 13:48	1
1,1,2,2-Tetrachloroethane	ND		6.9	ug/m3			01/29/20 13:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	ug/m3			01/29/20 13:48	1
1,1,2-Trichloroethane	ND		2.7	ug/m3			01/29/20 13:48	1
1,1-Dichloroethane	ND		2.0	ug/m3			01/29/20 13:48	1
1,1-Dichloroethene	ND		2.0	ug/m3			01/29/20 13:48	1
1,1-Difluoroethane	ND		5.4	ug/m3			01/29/20 13:48	1
1,2,4-Trichlorobenzene	ND		15	ug/m3			01/29/20 13:48	1
1,2,4-Trimethylbenzene	ND		7.4	ug/m3			01/29/20 13:48	1
1,2-Dibromo-3-Chloropropane	ND		14	ug/m3			01/29/20 13:48	1
1,2-Dibromoethane	ND		3.8	ug/m3			01/29/20 13:48	1
1,2-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 13:48	1
1,2-Dichloroethane	ND		2.0	ug/m3			01/29/20 13:48	1
1,2-Dichloropropane	ND		2.3	ug/m3			01/29/20 13:48	1
1,3,5-Trimethylbenzene	ND		2.5	ug/m3			01/29/20 13:48	1
1,3-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 13:48	1
1,4-Dichlorobenzene	ND		3.0	ug/m3			01/29/20 13:48	1
2-Butanone	ND		4.4	ug/m3			01/29/20 13:48	1
2-Hexanone	ND		6.1	ug/m3			01/29/20 13:48	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-47260/6
Matrix: Air
Analysis Batch: 47260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	ND		2.5		ug/m3			01/29/20 13:48	1
4-Methyl-2-pentanone	ND		6.1		ug/m3			01/29/20 13:48	1
Acetone	ND		12		ug/m3			01/29/20 13:48	1
Benzene	ND		1.6		ug/m3			01/29/20 13:48	1
Benzyl chloride	ND		7.8		ug/m3			01/29/20 13:48	1
Bromodichloromethane	ND		3.4		ug/m3			01/29/20 13:48	1
Bromoform	ND		5.2		ug/m3			01/29/20 13:48	1
Bromomethane	ND		1.9		ug/m3			01/29/20 13:48	1
cis-1,2-Dichloroethene	ND		2.0		ug/m3			01/29/20 13:48	1
cis-1,3-Dichloropropene	ND		2.3		ug/m3			01/29/20 13:48	1
Carbon disulfide	ND		16		ug/m3			01/29/20 13:48	1
Carbon tetrachloride	ND		3.1		ug/m3			01/29/20 13:48	1
Chlorobenzene	ND		2.3		ug/m3			01/29/20 13:48	1
Chloroethane	ND		1.3		ug/m3			01/29/20 13:48	1
Chloroform	ND		2.4		ug/m3			01/29/20 13:48	1
Chloromethane	ND		1.0		ug/m3			01/29/20 13:48	1
Dibromochloromethane	ND		4.3		ug/m3			01/29/20 13:48	1
Dichlorodifluoromethane	ND		2.5		ug/m3			01/29/20 13:48	1
Dichlorotetrafluoroethane	ND		14		ug/m3			01/29/20 13:48	1
Ethylbenzene	ND		2.2		ug/m3			01/29/20 13:48	1
Hexachloro-1,3-butadiene	ND		16		ug/m3			01/29/20 13:48	1
Isopropanol	ND		120		ug/m3			01/29/20 13:48	1
Methylene Chloride	ND		17		ug/m3			01/29/20 13:48	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2		ug/m3			01/29/20 13:48	1
n-Butylbenzene	ND		8.2		ug/m3			01/29/20 13:48	1
o-Xylene	ND		2.2		ug/m3			01/29/20 13:48	1
m,p-Xylene	ND		8.7		ug/m3			01/29/20 13:48	1
sec-Butylbenzene	ND		8.2		ug/m3			01/29/20 13:48	1
Styrene	ND		6.4		ug/m3			01/29/20 13:48	1
trans-1,2-Dichloroethene	ND		2.0		ug/m3			01/29/20 13:48	1
trans-1,3-Dichloropropene	ND		4.5		ug/m3			01/29/20 13:48	1
tert-Butylbenzene	ND		8.2		ug/m3			01/29/20 13:48	1
Tetrachloroethene	ND		3.4		ug/m3			01/29/20 13:48	1
Toluene	ND		19		ug/m3			01/29/20 13:48	1
Trichloroethene	ND		2.7		ug/m3			01/29/20 13:48	1
Trichlorofluoromethane	ND		5.6		ug/m3			01/29/20 13:48	1
Vinyl acetate	ND		7.0		ug/m3			01/29/20 13:48	1
Vinyl chloride	ND		1.3		ug/m3			01/29/20 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*47 - 137*		*01/29/20 13:48*	*1*
4-Bromofluorobenzene (Surr)	*93*		*57 - 129*		*01/29/20 13:48*	*1*
Toluene-d8 (Surr)	*97*		*78 - 156*		*01/29/20 13:48*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-47260/3
Matrix: Air
Analysis Batch: 47260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	136	114.2		ug/m3		84	50 - 150
1,1,2,2-Tetrachloroethane	172	155.1		ug/m3		90	50 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	192	185.1		ug/m3		97	50 - 150
1,1,2-Trichloroethane	136	121.2		ug/m3		89	65 - 149
1,1-Dichloroethane	101	95.24		ug/m3		94	50 - 150
1,1-Dichloroethene	99.1	92.11		ug/m3		93	50 - 150
1,1-Difluoroethane	67.5	47.92		ug/m3		71	60 - 140
1,2,4-Trichlorobenzene	186	131.1		ug/m3		71	50 - 150
1,2,4-Trimethylbenzene	123	107.4		ug/m3		87	50 - 150
1,2-Dibromo-3-Chloropropane	242	190.4		ug/m3		79	60 - 140
1,2-Dibromoethane	192	177.9		ug/m3		93	54 - 144
1,2-Dichlorobenzene	150	125.9		ug/m3		84	34 - 160
1,2-Dichloroethane	101	84.88		ug/m3		84	69 - 153
1,2-Dichloropropane	116	106.7		ug/m3		92	67 - 157
1,3,5-Trimethylbenzene	123	105.9		ug/m3		86	50 - 150
1,3-Dichlorobenzene	150	132.3		ug/m3		88	50 - 150
1,4-Dichlorobenzene	150	128.4		ug/m3		85	36 - 156
2-Butanone	73.7	68.42		ug/m3		93	50 - 150
2-Hexanone	102	92.16		ug/m3		90	50 - 150
4-Ethyltoluene	123	107.9		ug/m3		88	50 - 150
4-Methyl-2-pentanone	102	89.79		ug/m3		88	50 - 150
Acetone	59.4	65.49		ug/m3		110	50 - 150
Benzene	79.9	79.57		ug/m3		100	60 - 156
Benzyl chloride	129	101.2		ug/m3		78	50 - 150
Bromodichloromethane	168	144.4		ug/m3		86	50 - 150
Bromoform	258	239.2		ug/m3		93	50 - 150
Bromomethane	97.1	100.8		ug/m3		104	50 - 150
cis-1,2-Dichloroethene	99.1	96.85		ug/m3		98	50 - 150
cis-1,3-Dichloropropene	113	96.58		ug/m3		85	61 - 157
Carbon disulfide	77.9	90.89		ug/m3		117	50 - 150
Carbon tetrachloride	157	124.6		ug/m3		79	64 - 154
Chlorobenzene	115	103.3		ug/m3		90	50 - 150
Chloroethane	66.0	70.09		ug/m3		106	50 - 150
Chloroform	122	111.2		ug/m3		91	50 - 150
Chloromethane	51.6	53.43		ug/m3		104	50 - 150
Dibromochloromethane	213	189.7		ug/m3		89	50 - 150
Dichlorodifluoromethane	124	106.9		ug/m3		86	50 - 150
Dichlorotetrafluoroethane	175	169.6		ug/m3		97	50 - 150
Ethylbenzene	109	102.6		ug/m3		94	52 - 154
Hexachloro-1,3-butadiene	267	193.1		ug/m3		72	50 - 150
Isopropanol	61.5	57.76	J	ug/m3		94	50 - 150
Methylene Chloride	86.8	84.23		ug/m3		97	50 - 150
Methyl-t-Butyl Ether (MTBE)	90.1	85.75		ug/m3		95	50 - 150
n-Butylbenzene	137	109.2		ug/m3		80	50 - 150
o-Xylene	109	99.07		ug/m3		91	52 - 148
m,p-Xylene	217	207.9		ug/m3		96	42 - 156
sec-Butylbenzene	137	111.3		ug/m3		81	50 - 150
Styrene	106	97.41		ug/m3		91	50 - 150

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-47260/3
Matrix: Air
Analysis Batch: 47260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	99.1	104.1		ug/m3		105	50 - 150
trans-1,3-Dichloropropene	113	97.33		ug/m3		86	50 - 150
tert-Butylbenzene	137	118.8		ug/m3		87	50 - 150
Tetrachloroethene	170	149.7		ug/m3		88	56 - 152
Toluene	94.2	92.82		ug/m3		99	56 - 146
Trichloroethene	134	120.3		ug/m3		90	63 - 159
Trichlorofluoromethane	140	122.9		ug/m3		87	50 - 150
Vinyl acetate	88.0	82.65		ug/m3		94	50 - 150
Vinyl chloride	63.9	65.32		ug/m3		102	45 - 177

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*47 - 137*
4-Bromofluorobenzene (Surr)	*93*		*57 - 129*
Toluene-d8 (Surr)	*97*		*78 - 156*

Lab Sample ID: LCSD 570-47260/4
Matrix: Air
Analysis Batch: 47260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	136	116.7		ug/m3		86	50 - 150	2	35
1,1,2,2-Tetrachloroethane	172	157.0		ug/m3		91	50 - 150	1	35
1,1,2-Trichloro-1,2,2-trifluoroethane	192	188.0		ug/m3		98	50 - 150	2	35
1,1,2-Trichloroethane	136	121.2		ug/m3		89	65 - 149	0	37
1,1-Dichloroethane	101	98.59		ug/m3		97	50 - 150	3	35
1,1-Dichloroethene	99.1	99.33		ug/m3		100	50 - 150	8	35
1,1-Difluoroethane	67.5	49.76		ug/m3		74	60 - 140	4	30
1,2,4-Trichlorobenzene	186	139.2		ug/m3		75	50 - 150	6	35
1,2,4-Trimethylbenzene	123	109.0		ug/m3		89	50 - 150	1	35
1,2-Dibromo-3-Chloropropane	242	196.5		ug/m3		81	60 - 140	3	30
1,2-Dibromoethane	192	176.9		ug/m3		92	54 - 144	1	36
1,2-Dichlorobenzene	150	128.7		ug/m3		86	34 - 160	2	47
1,2-Dichloroethane	101	87.43		ug/m3		86	69 - 153	3	35
1,2-Dichloropropane	116	107.6		ug/m3		93	67 - 157	1	35
1,3,5-Trimethylbenzene	123	107.6		ug/m3		88	50 - 150	2	35
1,3-Dichlorobenzene	150	134.1		ug/m3		89	50 - 150	1	35
1,4-Dichlorobenzene	150	130.2		ug/m3		87	36 - 156	1	47
2-Butanone	73.7	73.81		ug/m3		100	50 - 150	8	35
2-Hexanone	102	93.17		ug/m3		91	50 - 150	1	35
4-Ethyltoluene	123	108.7		ug/m3		88	50 - 150	1	35
4-Methyl-2-pentanone	102	90.44		ug/m3		88	50 - 150	1	35
Acetone	59.4	71.51		ug/m3		120	50 - 150	9	35
Benzene	79.9	80.35		ug/m3		101	60 - 156	1	40
Benzyl chloride	129	104.6		ug/m3		81	50 - 150	3	35
Bromodichloromethane	168	143.3		ug/m3		86	50 - 150	1	35
Bromoform	258	236.7		ug/m3		92	50 - 150	1	38
Bromomethane	97.1	107.4		ug/m3		111	50 - 150	6	35
cis-1,2-Dichloroethene	99.1	100.4		ug/m3		101	50 - 150	4	35

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-47260/4
Matrix: Air
Analysis Batch: 47260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	113	96.87		ug/m3		85	61 - 157	0	35
Carbon disulfide	77.9	92.99		ug/m3		119	50 - 150	2	35
Carbon tetrachloride	157	123.2		ug/m3		78	64 - 154	1	32
Chlorobenzene	115	103.3		ug/m3		90	50 - 150	0	35
Chloroethane	66.0	75.15		ug/m3		114	50 - 150	7	35
Chloroform	122	114.1		ug/m3		93	50 - 150	3	35
Chloromethane	51.6	55.46		ug/m3		107	50 - 150	4	35
Dibromochloromethane	213	188.6		ug/m3		89	50 - 150	1	35
Dichlorodifluoromethane	124	109.5		ug/m3		89	50 - 150	2	35
Dichlorotetrafluoroethane	175	182.1		ug/m3		104	50 - 150	7	35
Ethylbenzene	109	102.9		ug/m3		95	52 - 154	0	38
Hexachloro-1,3-butadiene	267	204.9		ug/m3		77	50 - 150	6	35
Isopropanol	61.5	61.91	J	ug/m3		101	50 - 150	7	35
Methylene Chloride	86.8	89.98		ug/m3		104	50 - 150	7	35
Methyl-t-Butyl Ether (MTBE)	90.1	88.22		ug/m3		98	50 - 150	3	35
n-Butylbenzene	137	111.6		ug/m3		81	50 - 150	2	30
o-Xylene	109	99.23		ug/m3		91	52 - 148	0	38
m,p-Xylene	217	206.7		ug/m3		95	42 - 156	1	41
sec-Butylbenzene	137	112.8		ug/m3		82	50 - 150	1	30
Styrene	106	96.92		ug/m3		91	50 - 150	1	35
trans-1,2-Dichloroethene	99.1	105.6		ug/m3		107	50 - 150	1	35
trans-1,3-Dichloropropene	113	97.11		ug/m3		86	50 - 150	0	35
tert-Butylbenzene	137	120.5		ug/m3		88	50 - 150	1	30
Tetrachloroethene	170	147.6		ug/m3		87	56 - 152	1	40
Toluene	94.2	92.75		ug/m3		98	56 - 146	0	43
Trichloroethene	134	119.0		ug/m3		89	63 - 159	1	34
Trichlorofluoromethane	140	132.2		ug/m3		94	50 - 150	7	35
Vinyl acetate	88.0	87.02		ug/m3		99	50 - 150	5	35
Vinyl chloride	63.9	68.49		ug/m3		107	45 - 177	5	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*47 - 137*
4-Bromofluorobenzene (Surr)	*93*		*57 - 129*
Toluene-d8 (Surr)	*98*		*78 - 156*

Method: D1946 - Fixed Gases in Air (GC)

Lab Sample ID: MB 570-47019/4
Matrix: Air
Analysis Batch: 47019

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.50	% v/v			01/28/20 10:22	1
Carbon monoxide	ND		0.50	% v/v			01/28/20 10:22	1
Methane	ND		0.50	% v/v			01/28/20 10:22	1
Nitrogen	ND		0.50	% v/v			01/28/20 10:22	1
Oxygen + Argon	ND		0.50	% v/v			01/28/20 10:22	1

Method: D1946 - Fixed Gases in Air (GC) (Continued)

Lab Sample ID: LCS 570-47019/2
Matrix: Air
Analysis Batch: 47019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	15.0	15.62		% v/v		104	80 - 120
Carbon monoxide	7.02	6.973		% v/v		99	80 - 120
Methane	4.53	4.542		% v/v		100	80 - 120
Nitrogen	69.5	66.70		% v/v		96	80 - 120
Oxygen + Argon	3.99	4.328		% v/v		108	80 - 120

Lab Sample ID: LCSD 570-47019/3
Matrix: Air
Analysis Batch: 47019

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon dioxide	15.0	15.41		% v/v		103	80 - 120	1	20
Carbon monoxide	7.02	6.769		% v/v		96	80 - 120	3	20
Methane	4.53	4.411		% v/v		97	80 - 120	3	20
Nitrogen	69.5	64.79		% v/v		93	80 - 120	3	20
Oxygen + Argon	3.99	4.198		% v/v		105	80 - 120	3	20

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Air - GC/MS VOA

Analysis Batch: 46977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-19024-13	SVP5-5	Total/NA	Air	TO-15	
570-19024-14	SVP5-10	Total/NA	Air	TO-15	
570-19024-15	SVP5-15	Total/NA	Air	TO-15	
MB 570-46977/5	Method Blank	Total/NA	Air	TO-15	
LCS 570-46977/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-46977/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 47027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-19024-1	SVP1-5	Total/NA	Air	TO-15	
570-19024-2	SVP1-10	Total/NA	Air	TO-15	
570-19024-3	SVP1-19.5	Total/NA	Air	TO-15	
570-19024-4	SVP2-5	Total/NA	Air	TO-15	
570-19024-5	SVP2-10	Total/NA	Air	TO-15	
570-19024-6	SVP2-19.5	Total/NA	Air	TO-15	
570-19024-7	SVP3-5	Total/NA	Air	TO-15	
570-19024-8	SVP3-10	Total/NA	Air	TO-15	
570-19024-9	SVP3-19.5	Total/NA	Air	TO-15	
570-19024-10	SVP4-5	Total/NA	Air	TO-15	
MB 570-47027/6	Method Blank	Total/NA	Air	TO-15	
LCS 570-47027/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-47027/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 47256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-19024-11	SVP4-10	Total/NA	Air	TO-15	
MB 570-47256/5	Method Blank	Total/NA	Air	TO-15	
LCS 570-47256/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-47256/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 47260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-19024-12	SVP4-19.5	Total/NA	Air	TO-15	
MB 570-47260/6	Method Blank	Total/NA	Air	TO-15	
LCS 570-47260/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-47260/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Air - GC VOA

Analysis Batch: 47019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-19024-1	SVP1-5	Total/NA	Air	D1946	
570-19024-2	SVP1-10	Total/NA	Air	D1946	
570-19024-3	SVP1-19.5	Total/NA	Air	D1946	
570-19024-4	SVP2-5	Total/NA	Air	D1946	
570-19024-5	SVP2-10	Total/NA	Air	D1946	
570-19024-6	SVP2-19.5	Total/NA	Air	D1946	
570-19024-7	SVP3-5	Total/NA	Air	D1946	
570-19024-8	SVP3-10	Total/NA	Air	D1946	
570-19024-9	SVP3-19.5	Total/NA	Air	D1946	
570-19024-10	SVP4-5	Total/NA	Air	D1946	

Air - GC VOA (Continued)

Analysis Batch: 47019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-19024-11	SVP4-10	Total/NA	Air	D1946	
570-19024-12	SVP4-19.5	Total/NA	Air	D1946	
570-19024-13	SVP5-5	Total/NA	Air	D1946	
570-19024-14	SVP5-10	Total/NA	Air	D1946	
570-19024-15	SVP5-15	Total/NA	Air	D1946	
MB 570-47019/4	Method Blank	Total/NA	Air	D1946	
LCS 570-47019/2	Lab Control Sample	Total/NA	Air	D1946	
LCSD 570-47019/3	Lab Control Sample Dup	Total/NA	Air	D1946	

Analysis Batch: 47145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-19024-1	SVP1-5	Total/NA	Air	Fixed Gas Norm	
570-19024-2	SVP1-10	Total/NA	Air	Fixed Gas Norm	
570-19024-3	SVP1-19.5	Total/NA	Air	Fixed Gas Norm	
570-19024-4	SVP2-5	Total/NA	Air	Fixed Gas Norm	
570-19024-5	SVP2-10	Total/NA	Air	Fixed Gas Norm	
570-19024-6	SVP2-19.5	Total/NA	Air	Fixed Gas Norm	
570-19024-7	SVP3-5	Total/NA	Air	Fixed Gas Norm	
570-19024-8	SVP3-10	Total/NA	Air	Fixed Gas Norm	
570-19024-9	SVP3-19.5	Total/NA	Air	Fixed Gas Norm	
570-19024-10	SVP4-5	Total/NA	Air	Fixed Gas Norm	
570-19024-11	SVP4-10	Total/NA	Air	Fixed Gas Norm	
570-19024-12	SVP4-19.5	Total/NA	Air	Fixed Gas Norm	
570-19024-13	SVP5-5	Total/NA	Air	Fixed Gas Norm	
570-19024-14	SVP5-10	Total/NA	Air	Fixed Gas Norm	
570-19024-15	SVP5-15	Total/NA	Air	Fixed Gas Norm	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Client Sample ID: SVP1-5
Date Collected: 01/27/20 14:05
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/28/20 20:19	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 10:58	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 10:58	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP1-10
Date Collected: 01/27/20 14:25
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/28/20 17:53	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 11:36	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 11:36	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP1-19.5
Date Collected: 01/27/20 14:41
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/28/20 21:59	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 11:54	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 11:54	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP2-5
Date Collected: 01/27/20 12:22
Date Received: 01/27/20 19:10

Lab Sample ID: 570-19024-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/28/20 22:51	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 12:13	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 12:13	XF3K	ECL 2
	Instrument ID: GC65									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Client Sample ID: SVP2-10

Lab Sample ID: 570-19024-5
Date Collected: 01/27/20 13:14
Matrix: Air
Date Received: 01/27/20 19:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/28/20 23:43	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 12:31	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 12:31	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP2-19.5

Lab Sample ID: 570-19024-6
Date Collected: 01/27/20 13:39
Matrix: Air
Date Received: 01/27/20 19:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/29/20 00:35	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 12:49	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 12:49	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP3-5

Lab Sample ID: 570-19024-7
Date Collected: 01/27/20 10:57
Matrix: Air
Date Received: 01/27/20 19:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/29/20 02:14	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 13:07	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 13:07	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP3-10

Lab Sample ID: 570-19024-8
Date Collected: 01/27/20 11:20
Matrix: Air
Date Received: 01/27/20 19:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/29/20 03:05	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 13:26	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 13:26	XF3K	ECL 2
	Instrument ID: GC65									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Client Sample ID: SVP3-19.5

Lab Sample ID: 570-19024-9

Date Collected: 01/27/20 11:49
Date Received: 01/27/20 19:10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/29/20 04:51	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 13:43	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 13:43	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP4-5

Lab Sample ID: 570-19024-10

Date Collected: 01/27/20 14:59
Date Received: 01/27/20 19:10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47027	01/29/20 03:58	KA4W	ECL 2
	Instrument ID: GCMSK									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 14:01	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 14:01	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP4-10

Lab Sample ID: 570-19024-11

Date Collected: 01/27/20 15:12
Date Received: 01/27/20 19:10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47256	01/29/20 17:13	V2NZ	ECL 2
	Instrument ID: GCMSAA									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 14:19	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 14:19	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP4-19.5

Lab Sample ID: 570-19024-12

Date Collected: 01/27/20 15:27
Date Received: 01/27/20 19:10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	47260	01/29/20 17:03	KA4W	ECL 2
	Instrument ID: GCMSII									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 14:37	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 14:37	XF3K	ECL 2
	Instrument ID: GC65									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Client Sample ID: SVP5-5

Lab Sample ID: 570-19024-13

Date Collected: 01/27/20 15:48
Date Received: 01/27/20 19:10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	46977	01/28/20 19:22	USQD	ECL 2
	Instrument ID: GCMSAA									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 14:54	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 14:54	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP5-10

Lab Sample ID: 570-19024-14

Date Collected: 01/27/20 16:08
Date Received: 01/27/20 19:10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	46977	01/28/20 20:12	USQD	ECL 2
	Instrument ID: GCMSAA									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 15:12	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 15:12	XF3K	ECL 2
	Instrument ID: GC65									

Client Sample ID: SVP5-15

Lab Sample ID: 570-19024-15

Date Collected: 01/27/20 16:24
Date Received: 01/27/20 19:10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	46977	01/28/20 21:02	USQD	ECL 2
	Instrument ID: GCMSAA									
Total/NA	Analysis	D1946		1	1 mL	1 mL	47019	01/28/20 15:30	XF3K	ECL 2
	Instrument ID: GC65									
Total/NA	Analysis	Fixed Gas Norm		1			47145	01/28/20 15:30	XF3K	ECL 2
	Instrument ID: GC65									

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0781	03-13-20
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Hawaii	State	<cert No.>	07-02-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	ECL 2
D1946	Fixed Gases in Air (GC)	ASTM	ECL 2
Fixed Gas Norm	Fixed Gases from Stationary Sources	EPA	ECL 2

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: SC1029-02

Job ID: 570-19024-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-19024-1	SVP1-5	Air	01/27/20 14:05	01/27/20 19:10	
570-19024-2	SVP1-10	Air	01/27/20 14:25	01/27/20 19:10	
570-19024-3	SVP1-19.5	Air	01/27/20 14:41	01/27/20 19:10	
570-19024-4	SVP2-5	Air	01/27/20 12:22	01/27/20 19:10	
570-19024-5	SVP2-10	Air	01/27/20 13:14	01/27/20 19:10	
570-19024-6	SVP2-19.5	Air	01/27/20 13:39	01/27/20 19:10	
570-19024-7	SVP3-5	Air	01/27/20 10:57	01/27/20 19:10	
570-19024-8	SVP3-10	Air	01/27/20 11:20	01/27/20 19:10	
570-19024-9	SVP3-19.5	Air	01/27/20 11:49	01/27/20 19:10	
570-19024-10	SVP4-5	Air	01/27/20 14:59	01/27/20 19:10	
570-19024-11	SVP4-10	Air	01/27/20 15:12	01/27/20 19:10	
570-19024-12	SVP4-19.5	Air	01/27/20 15:27	01/27/20 19:10	
570-19024-13	SVP5-5	Air	01/27/20 15:48	01/27/20 19:10	
570-19024-14	SVP5-10	Air	01/27/20 16:08	01/27/20 19:10	
570-19024-15	SVP5-15	Air	01/27/20 16:24	01/27/20 19:10	

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CHAIN OF CUSTODY RECORD

DATE: 1/27/20

PAGE: 2 OF 2

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Geosyntec

ADDRESS:

CITY: STATE: ZIP:

TEL: E-MAIL: cliecder@geosyntec.com

CLIENT PROJECT NAME / NUMBER: SC1029-02

P.O. NO.:

PROJECT CONTACT: Chris Lieder

SAMPLER(S): (PRINT) B. Rockwell, V. Serrin

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C8-C36 ☐ C8-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035): ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs: ☐ 8270 ☐ 8270 SIM	T22 Metals: ☐ 6010/747X ☐ 6020/747X	Cr(VI): ☐ 7196 ☐ 7199 ☐ 218.6	TO-15	Fixed Gases (w/ CH4)		
11	SVP4-10	1/27/20	15:12	Air	1																		X	X		
12	SVP4-19.5	↓	15:27	↓	↓																		↓	↓		
13	SVP5-5		15:43																							
14	SVP5-10		16:08																							
15	SVP5 ~~19.5~~ 15	↓	16:24	↓	↓																		↓	↓		
	BR 1/30/2020																									

Relinquished by: (Signature) Serrin	Received by: (Signature/Affiliation) EC	Date: 1/27/20	Time: 16:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 01/27/20	Time: 1910
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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570-19024 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 1/27/20

PAGE: 1 OF 2

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Geosyntec

ADDRESS:

CITY: STATE: ZIP:

TEL: E-MAIL: clieder@geosyntec.com

CLIENT PROJECT NAME / NUMBER: SC1029 - 02

P.O. NO.:

PROJECT CONTACT: Chris Lieder

SAMPLER(S): (PRINT) B. Rockwell + V. Severin

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): ☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035): ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs: ☐ 8270 ☐ 8270 SIM	T22 Metals: ☐ 6010/747X ☐ 6020/747X	Cr(VI): ☐ 7196 ☐ 7199 ☐ 218.6	TO-15	Fixed Gases (W) (HA)		
1	SVP1-5	1/27/20	14:05	Air	1																		X	X		
2	SVP1-10		14:25																							
3	SVP1-19.5		14:41																							
4	SVP2-5		12:22																							
5	SVP2-10		13:14																							
6	SVP2-19.5		13:39																							
7	SVP3-5		10:57																							
8	SVP3-10		11:20																							
9	SVP3-19.5		11:49																							
10	SVP4-5		14:59																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	EL	1/27/20	16:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	01/27/20	1910
Relinquished by: (Signature)	Received by: (Signature/Affiliation)		

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CHAIN OF CUSTODY RECORD

DATE: 1/27/20

PAGE: 2 OF 2

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Geosyntec

ADDRESS:

CITY: STATE: ZIP:

TEL: E-MAIL: clieder@geosyntec.com

CLIENT PROJECT NAME / NUMBER: SC1029-02

P.O. NO.:

PROJECT CONTACT: Chris Lieder

SAMPLER(S): (PRINT) B. Rockwell + V. Severin

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): ☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035): ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs: ☐ 8270 ☐ 8270 SIM	T22 Metals: ☐ 6010/747X ☐ 6020/747X	Cr(VI): ☐ 7196 ☐ 7199 ☐ 218.6	TO-15	Fixed Gases (w/ CH4)		
11	SVP4-10	1/27/20	15:12	Air	1																		X	X		
12	SVP4-19.5	↓	15:27	↓	↓																		↓	↓		
13	SVP5-5	↓	15:48	↓	↓																		↓	↓		
14	SVP5-10	↓	16:08	↓	↓																		↓	↓		
15	SVP5-19.5	↓	16:24	↓	↓																		↓	↓		

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] EC	1/27/20	16:46
[signature]	[signature]	01/27/20	1910

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-19024-1

Login Number: 19024
List Number: 1
Creator: Andujo, Italy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
30251 Golden Lantern, #E-305, Laguna Niguel, CA 92677
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

January 8, 2020

Project Name: Chula Vista

Geosyntec Consultants
2355 Northside Drive, Suite 250
San Diego, CA 92108

Attention: Rosemary Propst

Dear Ms. Propst

Attached is the Environmental (Hazardous/Toxic Waste) Records Search Summary of Olympic Parkway, APN's 644-011-06-00 & 644-020-11-00 ("Chula Vista") site located in Chula Vista, California. Environmental Support Services ("**ESS**") received the request on December 23, 2019 (See Appendix A). Should you have any questions regarding the summary, please call.

Sincerely,
Environmental Support Services

Shannon Castagno

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Records Search Summary

Company:	Geosyntec Consultants
Project Name:	Chula Vista
Attention:	Rosemary Propst
Street Address of Property:	Olympic Parkway Chula Vista, CA APN's 644-011-06-00 & 644-020-11-00

San Diego County Hazardous Materials Management Division

E-mailed request: 12-23-19, Contact: Edwin Andrus

ESS submitted a request for a records search concerning Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 to Mr. Andrus, with the San Diego County Hazardous Materials Management Division (See Appendix B). **ESS** requested information concerning the utilization, manufacture, storage and/or discharge of hazardous materials/waste, and any information concerning previous or on-going site investigations/remediations pertaining to hazardous materials/waste. He informed **ESS** December 26, 2019 that his department had no records for Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix B).

Department of Toxic Substances Control (DTSC) – Cypress Office

E-mailed request: 12-23-19, Contact: Julie Johnson/Jone Barrio

Previous contacts with the DTSC have disclosed that this office only collects and stores information (such as treatment, storage and disposal of hazardous waste) concerning sites which have existing businesses, industries, etc. present. **ESS** requested that Ms. Johnson/Ms. Barrio, with the DTSC, check the file room records for any files/information the concerning Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix C). Ms. Barrio informed **ESS** on December 26, 2019 that her department had no files/information concerning the Chula Vista site (See Appendix C).

Department of Toxic Substances Control (DTSC) – Chatsworth Office

E-mailed request: 12-23-19, Contact: Glenn Castillo/Robert Hardison

Previous contacts with the DTSC have disclosed that this office only collects and stores information (such as treatment, storage and disposal of hazardous waste) concerning sites which have existing businesses, industries, etc. present. **ESS** requested that Mr. Castillo/Mr. Hardison, with the DTSC, check the file room records for any files/information concerning Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix D). Mr. Hardison informed **ESS** on December 26, 2019 that his department had no files/information concerning the Chula Vista site (See Appendix D).

Department of Toxic Substances Control (DTSC) – San Diego Office

E-mailed request: 12-23-19, Contact: Public Records Section

Previous contacts with the DTSC have disclosed that this office only collects and stores information (such as treatment, storage and disposal of hazardous waste) concerning sites which have existing businesses, industries, etc. present. **ESS** requested that the Public Records Section, with the DTSC, check the file room records for any files/information concerning Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix E). Beatriz Davila, with that department informed **ESS** on December 26, 2019 that you must provide a site name or street address to run a search with the Department of Toxic Substances Control (DTSC) – San Diego Office (See Appendix E).

City of Chula Vista Fire Department

On-line request: 12-23-19, Contact: Public Records Section

ESS requested that the Public Records Section, with the City of Chula Vista Fire Department, check their records concerning the storage of hazardous materials/waste and underground storage tanks with regards to the following: Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix F). Tamisha Woods, with that department informed **ESS** on December 27, 2019 that her department had no records for Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix F).

Cal Fire - Office of the State Fire Marshal

E-mailed request: 12-23-19, Contact: Pubic Records Request

ESS requested that the Public Records Section, with Cal Fire - Office of the State Fire Marshal, check their records concerning the storage of hazardous materials/waste, pipelines and underground storage tanks with regards to the following: Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix G). Anne Hennigan, with that department informed **ESS** on January 2, 2020 that her department did have records for the Chula Vista site (See Appendix G).

Chula Vista Public Works Department – Industrial Waste

On-line request: 12-23-19, Contact: Public Records Section

ESS requested that the Public Records Unit, with the Chula Vista Public Works Department – Industrial Waste, check their records for any information concerning industrial waste discharge permits or violations for Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix H). Tamisha Woods, with that department informed **ESS** January 2, 2019 that she needed an extension until January 16, 2020 to complete **ESS'** request (See Appendix H).

Chula Vista Building Department

On-line request: 12-23-19, Contact: Public Records Section

ESS requested that the Public Records Section, with the Chula Vista Building Department, provide the building records (all permits and certificates of occupancy) for Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix I). Tamisha Woods, with that department informed **ESS** on December 23, 2019 that her department had no records for Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix I). No further information concerning the site was obtained from the building department at the time of the investigation

San Diego Air Pollution Control District (SDAPCD)

E-mailed request: 12-23-19, Contact: Cynthia Gould

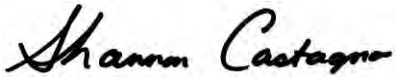
ESS submitted a search request concerning active, inactive and sold files for Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 to Ms. Gould at the SDAPCD (See Appendix J). She informed **ESS** December 30, 2019 that her department had no such records for Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix J).

<u>Regional Water Quality Control Board (RWQCB) – San Diego Region</u>

E-mailed request: 12-23-19, Contact: Public Records Unit

ESS requested that the Public Records Unit, with the RWQCB, provide the files for Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix K). Leah Lorch, with that department informed **ESS** January 6, 2019 that her department had no such records for Olympic Parkway, Chula Vista, CA, APN's 644-011-06-00 & 644-020-11-00 (See Appendix K). No further information was obtained from the RWQCB at the time of the investigation.

Records Search completed by:



_____
Shannon Castagno
Project Manager
Environmental Support Services

The information provided in this report was obtained by a comprehensive examination of public records, public information and public servant communications. The degree of care performed by **ESS** is equivalent to that exercised by environmental companies performing similar records searches.

Appendix A

Environmental (Hazardous/Toxic Waste) Records Search
Order Form

Shannon Castagno

From: Rosemary Propst <RPropst@Geosyntec.com>
Sent: Monday, December 23, 2019 9:15 AM
To: Shannon Castagno
Subject: Olympic Parkway, Chula Vista, CA - Records search
Attachments: 00105855-996_Plots.pdf

Hi Shannon,

I hope you're well, and having a good holiday week! We recently were authorized for a new Phase I down here in San Diego and are looking to do a records search for the property. Could you please contact the applicable agencies for the parcels with APNs 644-011-06-00 & 644-020-11-00, with the associated parcel address 0 Olympic Parkway, Chula Vista, CA 91911? There is no "official" address for the Site as it's undeveloped, but a map is attached. Additionally, will this be for the standard $350 or do you foresee any additional costs associated with these records searches? Please let me know if so and we'll accommodate. Thank you!

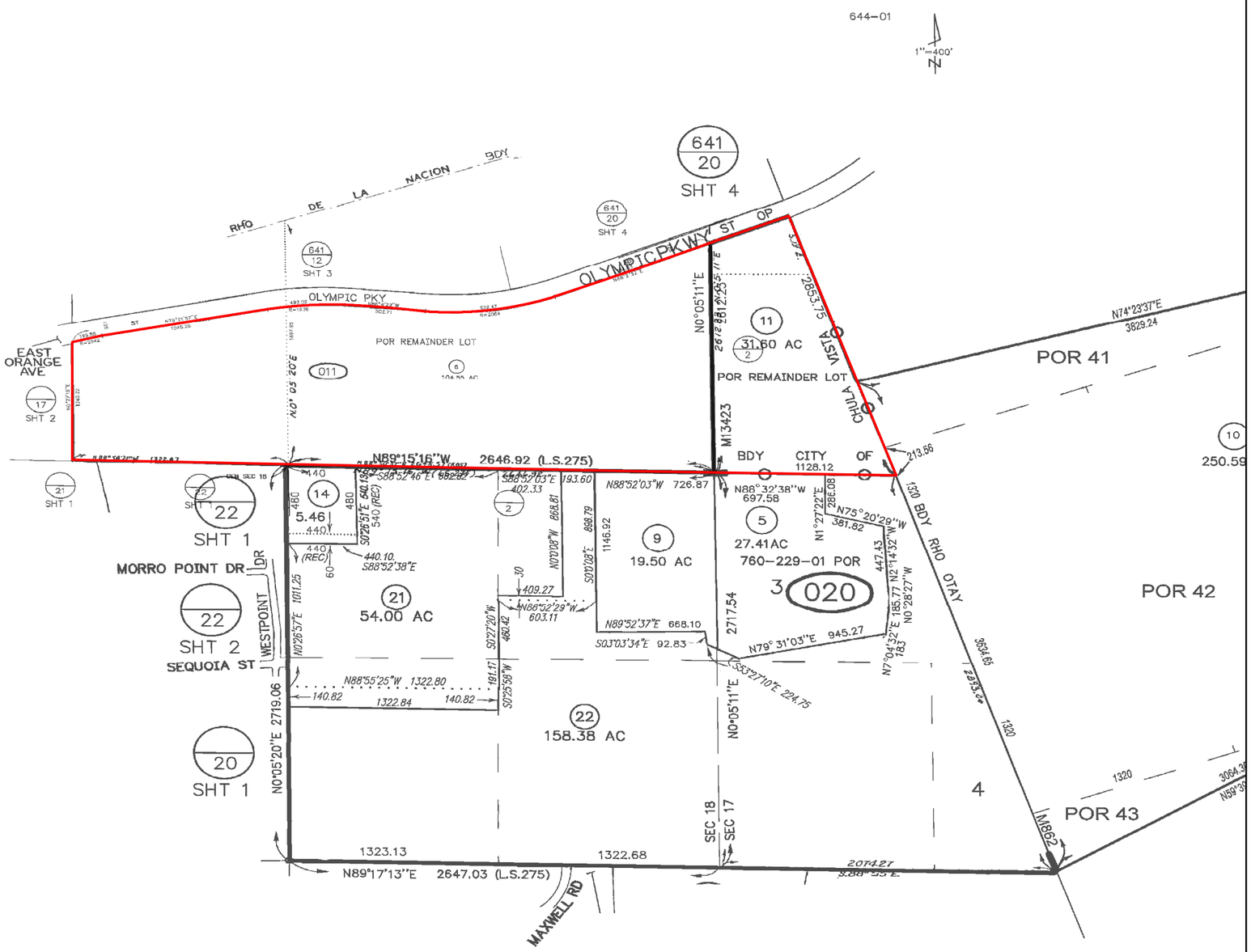
Happy holidays!

Best,

Rose Propst
Senior Staff Professional

2355 Northside Drive
Suite 250
San Diego, CA 92108
Direct: 619.810.4054
www.Geosyntec.com

Geosyntec consultants
engineers | scientists | innovators



Chicago Title Company

ORDER NO.

00105855-996

11/12/2019

APN

644-011-06-00 & 644-020-11-00

Legend

PIQ

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Appendix B

Request for Records Search to the
San Diego County HMMD and
Response Obtained from that Agency

Request # _____

County of San Diego

ELIZABETH POZZEBON
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

AMY HARBERT
ASSISTANT DIRECTOR

PUBLIC RECORDS REQUEST FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Shannon Castagno **E-Mail:** Shannon@EnvironmentalSupportService

Phone: (949) 429-3564 **FAX:** (949) 429-3563

Company Name: Environmental Support Services

Mailing Address: 30251 Golden Lantern, #E305, LN, CA

(You may attach a business card/overprint with business card if preferred)

Additional information may be accessed from the DEH website, www.sdcdeh.org. Fax or email your completed form to the Public Records Program at (858) 505-6848 or deh.publicrecords@sdcounty.ca.gov. The following information is required. Separate forms are needed for each address or parcel number.

APNs 644-011-06-00 & 644-020-11-00, Chula Vista, CA 91911 **or** _____

Exact Address (Street, City and Zip Code) — Assessor Parcel Number

Optional information (establishment permit number, business name, etc.):

Please indicate the purpose of your search by checking all that apply:

- ☒ Contaminated Property Investigation(s) (SAM Cases)
- ☒ SAM Closure Letter/Report
- ☒ Hazardous Materials Permit & Underground Storage Tank Files (HMD/UST)
- ☐ Other (specify):_____

☐ Monitoring Well Files (select conditions that apply)
- ☐ Government agency request
- ☐ Consultant with related case
- ☐ Written authorization from owner (attach letter)

OFFICE USE ONLY BELOW THIS LINE

Files reviewed by: _____ of _____ Date: _____

Files copied for: _____ of _____ Date: _____

Request cancelled by: _____ Date: _____

Photocopies _____ Cost _____ Picked up/mailed on _____ By _____

A search for DEH records checked above has been conducted and the following apply:

☐ SAM files for the permit number(s) listed below are available.

#_____ #_____ #_____ #_____ #_____

☐ HMD/UST files for the permit number(s) listed below are available.

#_____ #_____ #_____ #_____ #_____

☐ Original records were purged. Database-only records are available (at: http://sdcounty.ca.gov/deh/doing_business/hazmat_search.html) for the following permit number(s):

#_____ #_____ #_____ #_____ #_____

☐ No SAM/HMD/UST records were found for the address/APN you requested.

_____ _____

Signature - DEH Representative — Date

DEH complies fully with the California Public Records Act and the Federal Freedom of Information Act. Please be advised that photocopy and/or scanned file fees may apply.

Shannon Castagno

From: DEH, Public Records <PublicRecords.DEH@sdcounty.ca.gov>
Sent: Thursday, December 26, 2019 7:15 AM
To: Shannon Castagno
Subject: Records Request - APN 644-011-06-00 & 644-020-11-00

Good Morning,

No records were found for the requested APNs.

New Search Function: Scanned files for closed Site Assessment and Mitigation Program cases and Monitoring Well Program permits can be downloaded directly through the new DEH Document Library at:

http://www.sandiegocounty.gov/content/sdc/deh/doclibrary/

You can search by Record ID, APN, address, document category, or keyword.

Thank you,

Edwin C. Andrus
Edwin C. Andrus
Office Support Specialist
DEH – LWQ
(858) 505-6921

Help us make sure our customers have a positive experience. Please take 60 seconds to provide us with your feedback.

From: Shannon Castagno <shannon@environmentalsupportservices.com>
Sent: Monday, December 23, 2019 3:52 PM
To: Andrus, Edwin C. <Edwin.Andrus2@sdcounty.ca.gov>; DEH, Public Records <PublicRecords.DEH@sdcounty.ca.gov>
Subject: New Public Records Request

Hi Edwin,

Please see attached public records request. If you have any questions please give me a call.

Thanks again and have a wonderful holiday!

Shannon Castagno
Project Manager
Environmental Support Services
Shannon@EnvironmentalSupportServices.com
(949) 429-3564

Appendix C

Request for Records Search to the
Department of Toxic Substances Control – Cypress Office and
Response Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
30251 Golden Lantern, #E-305, Laguna Niguel, CA 92677
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

December 23, 2019

Dept of Toxic Substances Control
Cypress Office
5796 Corporate Avenue
Cypress, CA 90630

Attention: Julie Johnson/Jone Barrio

Dear Julie/Jone,

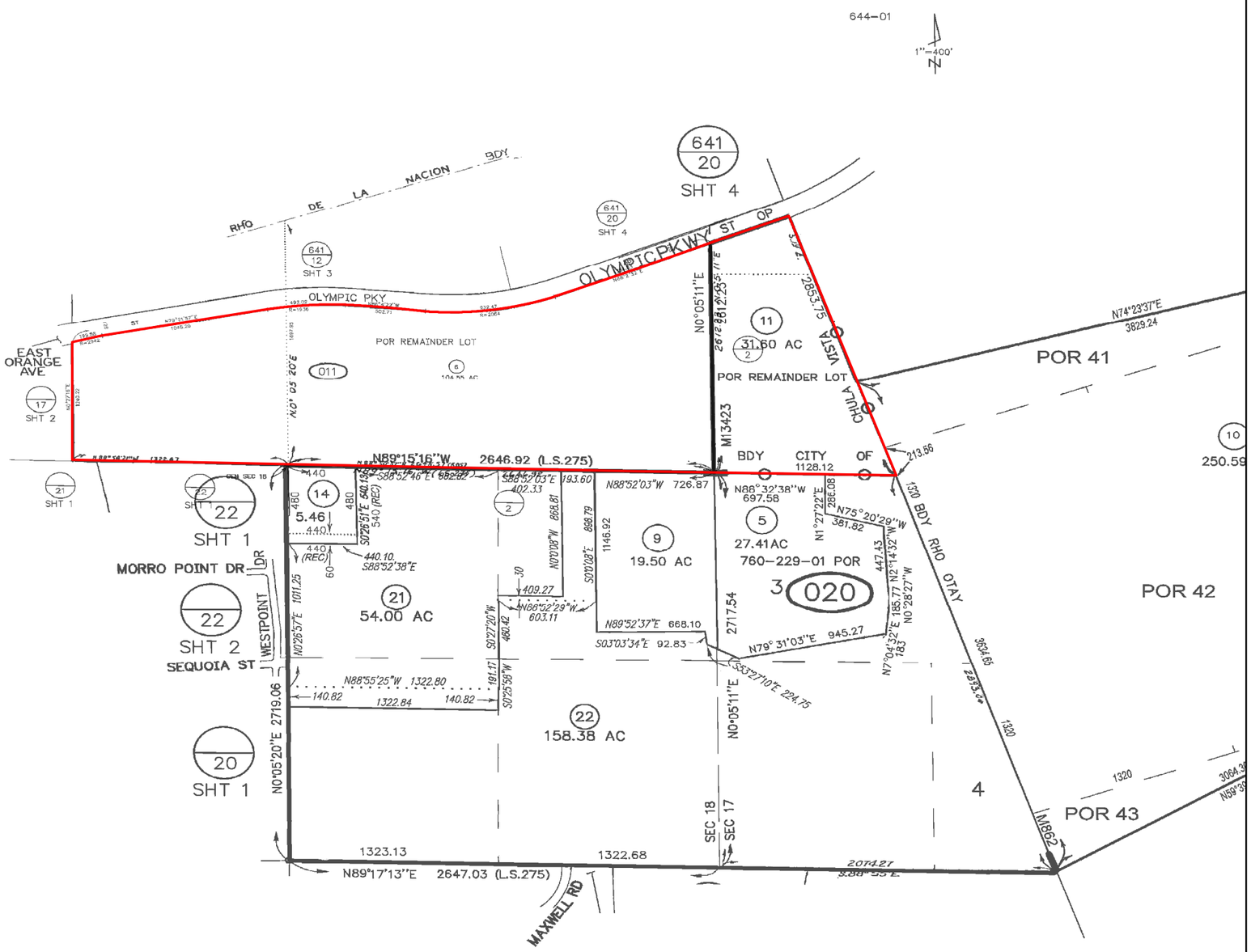
Please check for any files/information on the following site:

Site: Olympic Parkway
Chula Vista, CA 91911
APNs 644-011-06-00 & 644-020-11-00
(See Attached Map)

Sincerely,
Environmental Support Services

Shannon Castagno

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com



Chicago Title Company

ORDER NO.

00105855-996

11/12/2019

APN

644-011-06-00 & 644-020-11-00

Legend

PIQ

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control

Meredith Williams, Acting Director
5796 Corporate Avenue
Cypress, California 90630

Gavin Newsom
Governor

December 26, 2019

Ms. Shannon Castagno
Environmental Support Services
Shannon@EnvironmentalSupportServices.com

Various Sites:

PR4-122619-03

Dear: Ms. Castagno:

We have received your Public Records Act Request (PRAR) for records from Department of Toxic Substances Control (DTSC).

After a thorough review of our files we have found that, no documents/records exist at this office pertaining to the sites/facilities referenced above/below.

N/R: Olympic Parkway, Chula Vista & 644-011-06-00 & 644-020-11-00

We would like to inform you about Envirostor, DTSC's database that provides information and documents on over 5,000 DTSC cleanup sites. Envirostor can be accessed at: http://www.envirostor.dtsc.ca.gov/public.

Please begin using our file room address email to request records. All future DTSC requests PRAR's (Public Records Act Requests) are to be emailed to: **CypressFileRoom@dtsc.ca.gov** and if needed, please continue to fax all requests to (714)484-5318.

If you have any questions, would like further information regarding your request, please contact our Regional Records Coordinator at (714) 484-5336 or jone.barrio@dtsc.ca.gov.

Sincerely,

Jone Barrio

Jone Barrio
Regional Records Coordinator
DTSC-Cypress Administrative Services

Appendix D

Request for Records Search to the
Department of Toxic Substances Control – Chatsworth Office and
Response Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
30251 Golden Lantern, #E-305, Laguna Niguel, CA 92677
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

December 23, 2019

Dept of Toxic Substances Control
Chatsworth Office
9211 Oakdale Avenue
Chatsworth, CA

Attention: Glenn Castillo/Robert Hardison

Dear Glenn/Robert,

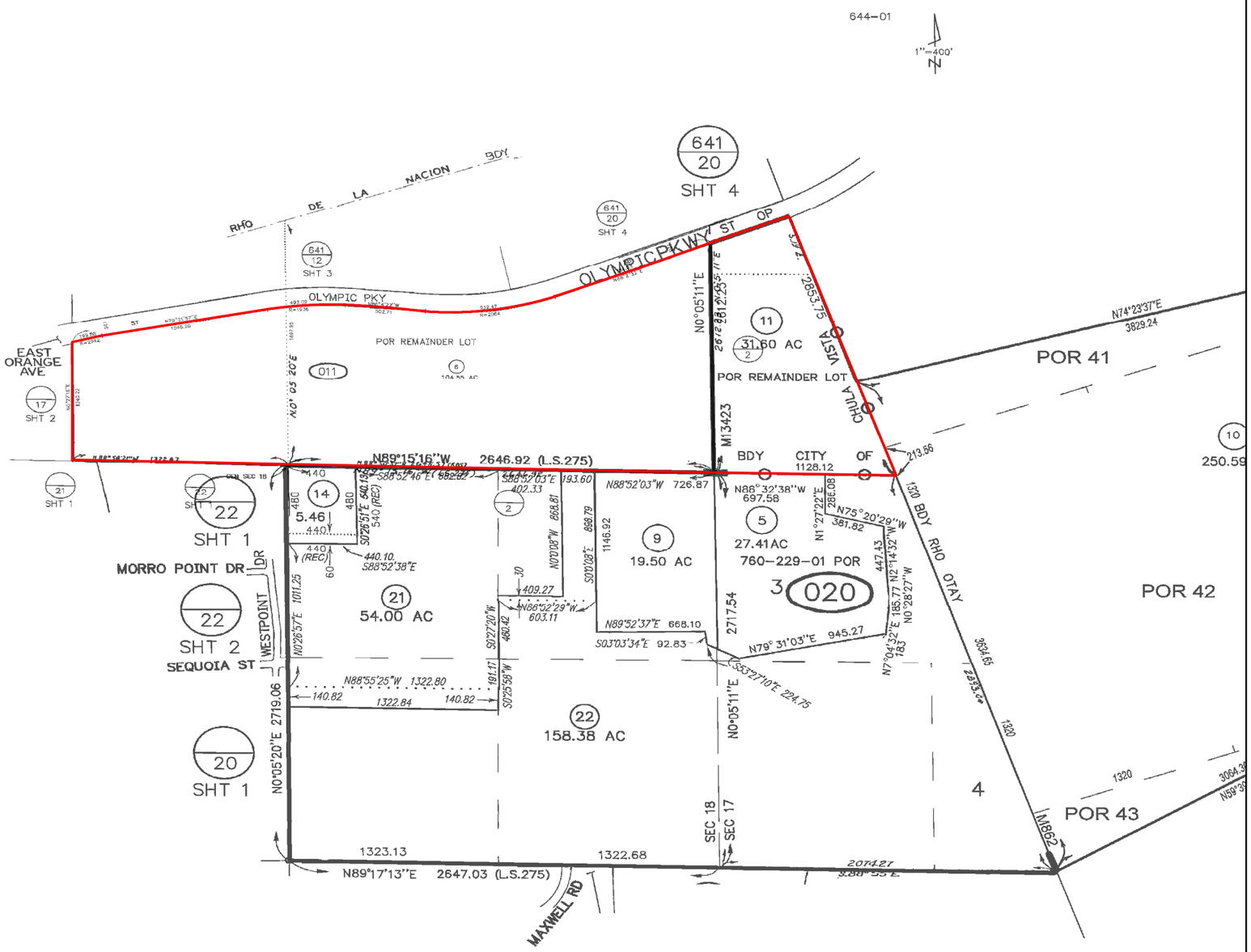
Please check for any files/information on the following site:

Site: Olympic Parkway
Chula Vista, CA 91911
APNs 644-011-06-00 & 644-020-11-00
(See Attached Map)

Sincerely,
Environmental Support Services

Shannon Castagno

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com



Chicago Title Company

ORDER NO.

00105855-996

11/12/2019

APN

644-011-06-00 & 644-020-11-00

Legend

PIQ

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Department of Toxic Substances Control

Jared Blumenfeld
Secretary for
Environmental Protection

Meredith Williams, Ph.D.
Acting Director
9211 Oakdale Avenue
Chatsworth, California 91311

Gavin Newsom
Governor

December 26, 2019

Ms. Shannon Castagno
Environmental Support Services
30251 Golden Lantern, #E-305
Laguna Niguel, CA 92677

Olympic Parkway, Chula Vista, CA 91911
APNs: 644-011-06-00 and 644-020-11-00

PR3-122419-01

Dear Ms. Castagno:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the sites/facilities referenced above.

We would also like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. Envirostor can be accessed at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view Envirostor.

If you have any questions or would like further information regarding your request, please contact me at (818) 717-6522.

Sincerely,

Robert Hardwin, for

Glenn Castillo /SA
Regional Records Coordinator

Appendix E

Request for Records Search to the
Department of Toxic Substances Control – San Diego Office and
Response Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
30251 Golden Lantern, #E-305, Laguna Niguel, CA 92677
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

December 23, 2019

STATE OF CALIFORNIA
Department of Toxic Substances Control
2375 Northside Drive, Suite 100
San Diego, Ca 92108

Attention: Beatriz Davila

Dear Beatriz,

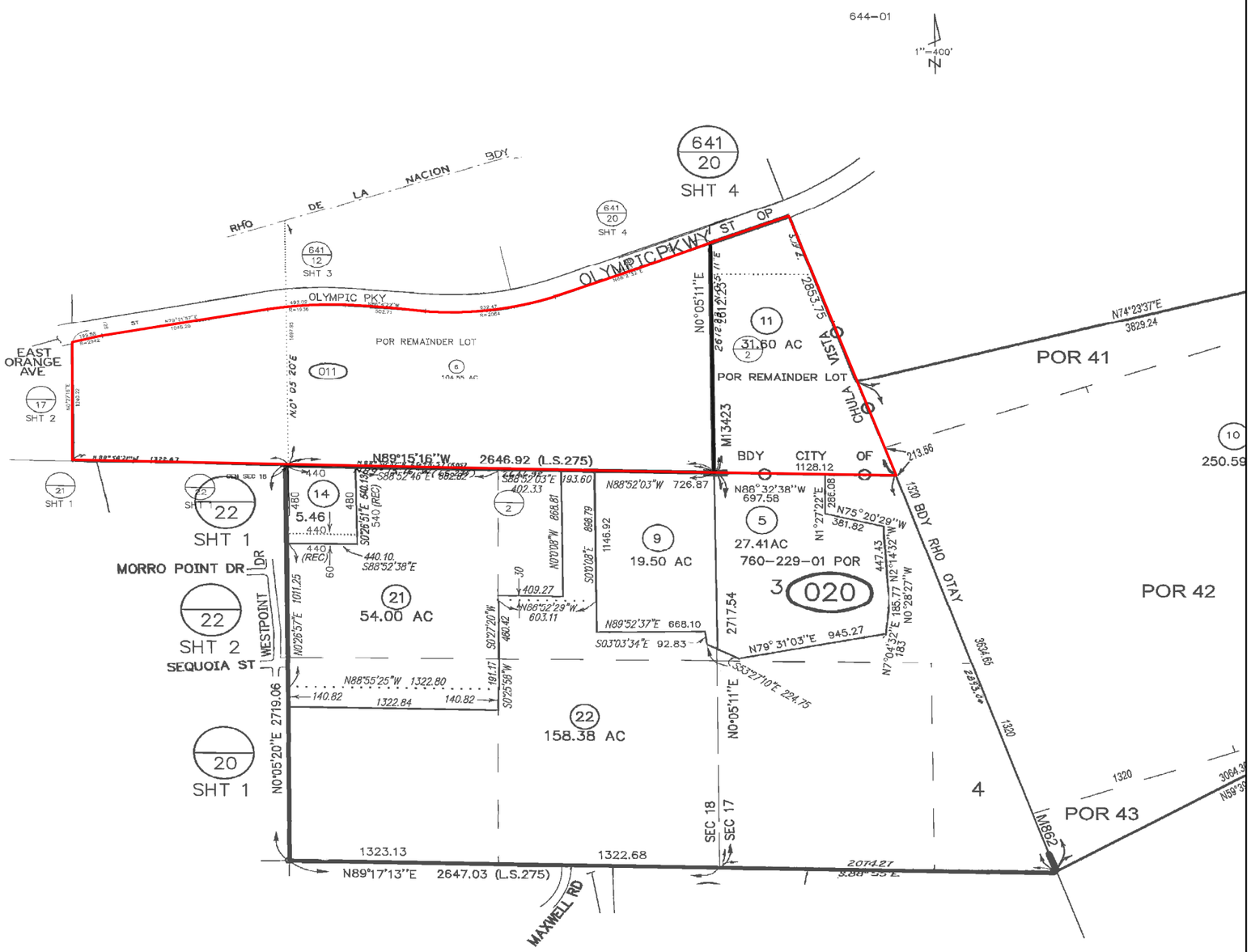
Please check for any files/information on the following site:

Site: Olympic Parkway
Chula Vista, CA 91911
APNs 644-011-06-00 & 644-020-11-00
(See Attached Map)

Sincerely,
Environmental Support Services

Shannon Castagno

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com



Chicago Title Company

ORDER NO.

00105855-996

11/12/2019

APN

644-011-06-00 & 644-020-11-00

Legend

PIQ

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Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control

Meredith Williams, Ph.D.
Acting Director
2375 Northside Drive, Suite 100
San Diego, California 92108

Gavin Newsom
Governor

December 26, 2019

Shannon Castagno
Environmental Support Services
30251 Golden Lantern, #E-305
Laguna Niguel, California 92677

Re: Olympic Parkway, Chula Vista, California 91911
APNs 644-011-06-00 and 644-020-11-00

Dear Ms. Shannon Castagno:

We have received your Public Records Act Request for records from Department of Toxic Substances Control. To complete and process your request, we will **need more information**. We need a specific site name or addresses. Our database/filing system is not set up to locate the information you are requesting.

We would like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. Envirostor can be accessed at: http://www.envirostor.dtsc.ca.gov/public.

If you have any questions, would like further information regarding your request, please contact our Regional Records Coordinator at (619) 516-1982.

Sincerely,

Beatriz Davila
Office Technician

Appendix F

Request for Records Search to the
City of Chula Vista Fire Department and
Response Obtained from that Agency

CITY OF CHULA VISTA

OFFICE OF THE CITY CLERK CITY OF CHULA VISTA

REQUEST FOR PUBLIC RECORDS

276 Fourth Avenue, Chula Vista, CA 91910 Phone: (619) 691-5041

cityclerk@chulavistaca.gov

PURSUANT TO THE CALIFORNIA PUBLIC RECORDS ACT (GOVERNMENT CODE § 6250 ET. SEQ) YOU WILL BE NOTIFIED WITHIN 10-DAYS OF THE STATUS OF YOUR REQUEST.

To expedite your request and to eliminate opportunities for error, please complete this form with as much detail as possible and identify specifically the records you are requesting. Requests should reasonably describe identifiable records prepared, owned, used or retained by the City of Chula Vista. If you need assistance with identifying a specific type of record we would be happy to help (Government Code § 6253.1).

REQUESTOR INFORMATION

Name: *
Shannon Castagno

Date:
12/23/2019

Company/Organization:
Environmental Support Services

Email Address: *
Shannon@EnvironmentalSupportServices.com

Address:

Street Address
30251 Golden Lantern, #E305

Address Line 2

City
Laguna Niguel

State / Province / Region
CA

Postal / Zip Code
92677

Country

Phone Number: *
9494293564

Fax Number:

REQUESTED RECORDS

- [x] Fire Inspection/Incident Records
- [ ] Police Records
- [ ] Animal Control Records
- [ ] Code Enforcement Records
- [ ] Planning Records (i.e. Zoning)
- [ ] Building Records (i.e. Permits, inspections)
- [ ] Copy of Business License
- [ ] Financial Records
- [ ] Other (Describe Below)

DESCRIPTION OF RECORDS: *

Limited to 255 Characters. Add additional pages as necessary by uploading supporting documents.

Site: Olympic Parkway
Chula Vista, CA 91911 APNs 644-011-06-00 & 644-020-11-00
ESS requests the following information concerning the subject site which the fire department may have on file:
Underground Storage Tank and Hazardous Materials Records

Supporting Documents:

For multiple records that cover a period of time please indicate:

TIME PERIOD OF RECORD REQUESTED

From: **To:**

DIRECT COST OF DUPLICATION: $1.00 FOR THE FIRST PAGE/10¢ FOR EACH ADDITIONAL PAGE

- [ ] I wish to inspect the requested records. I do not want copies at this time.
- [x] I wish to receive requested records electronically. (Depending on file size and type of record some records may not be available for electronic delivery.)
- [ ] I wish to receive copies of requested records. Please contact me prior to copying if the cost exceeds: $
- [ ] I wish to receive copies of requested records and I hereby agree to reimburse the City for the direct cost of duplication in accordance with Gov. Code §6253(b).

Signature: Shannon Castagno

PRA Exceptions: Requests requiring computer programming will be charged a fee of the full cost including overhead for the time to create such document or program. Requestor will be required to provide a deposit to cover estimated costs, as calculated by City Staff. Requests for these services must be made in writing.

CITY OF CHULA VISTA

Office of the City Clerk

SENT ELECTRONICALLY

12/27/2019

Attn: Shannon Castagno
Shannon@EnvironmentalSupportServices.com

Re: California Public Records Act Request
CPRAR 2019-943/Castagno

Dear Shannon Castagno,

The City of Chula Vista is in receipt of your 12/23/2019 request for the following public records pursuant to the *California Public Records Act* ("CPRA") (Cal. Gov. Code section 6250 *et seq*.):

"Site: Olympic Parkway, Chula Vista, CA 91911, APNs 644-011-06-00 & 644-020-11-00. ESS requests the following information: Underground Storage Tank and Hazardous Materials Records"

I have been informed by staff that there are no responsive records to your request. I have also been informed by staff that they believe that they have fully responded to your request; however, if you need additional information I will assist you in your efforts pursuant to Government Code section 6253.1.

Sincerely,

Tamisha Woods

Ms. Tamisha Woods
Sr. Records Specialist

Appendix G

Request for Records Search to the
Cal Fire – Office of the State Fire Marshal and
Response and Photocopies Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
30251 Golden Lantern, #E-305, Laguna Niguel, CA 92677
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

December 23, 2019

Cal Fire
Office of the State Fire Marshal

Attention: Public Records Request

Subject: Records Search – Hazardous Materials/Waste/Underground Tanks/Pipelines

Site: Olympic Parkway
Chula Vista, CA 91911
APNs 644-011-06-00 & 644-020-11-00
(See Attached Map)

Dear Public Records Request,

Environmental Support Services (ESS) is in the process of conducting a records search for an environmental audit at a site in Chula Vista, CA. This search includes researching the history of the site, especially as it pertains to hazardous materials/waste. With this in mind, **ESS** requests the following information concerning the subject address which your agency may have on file:

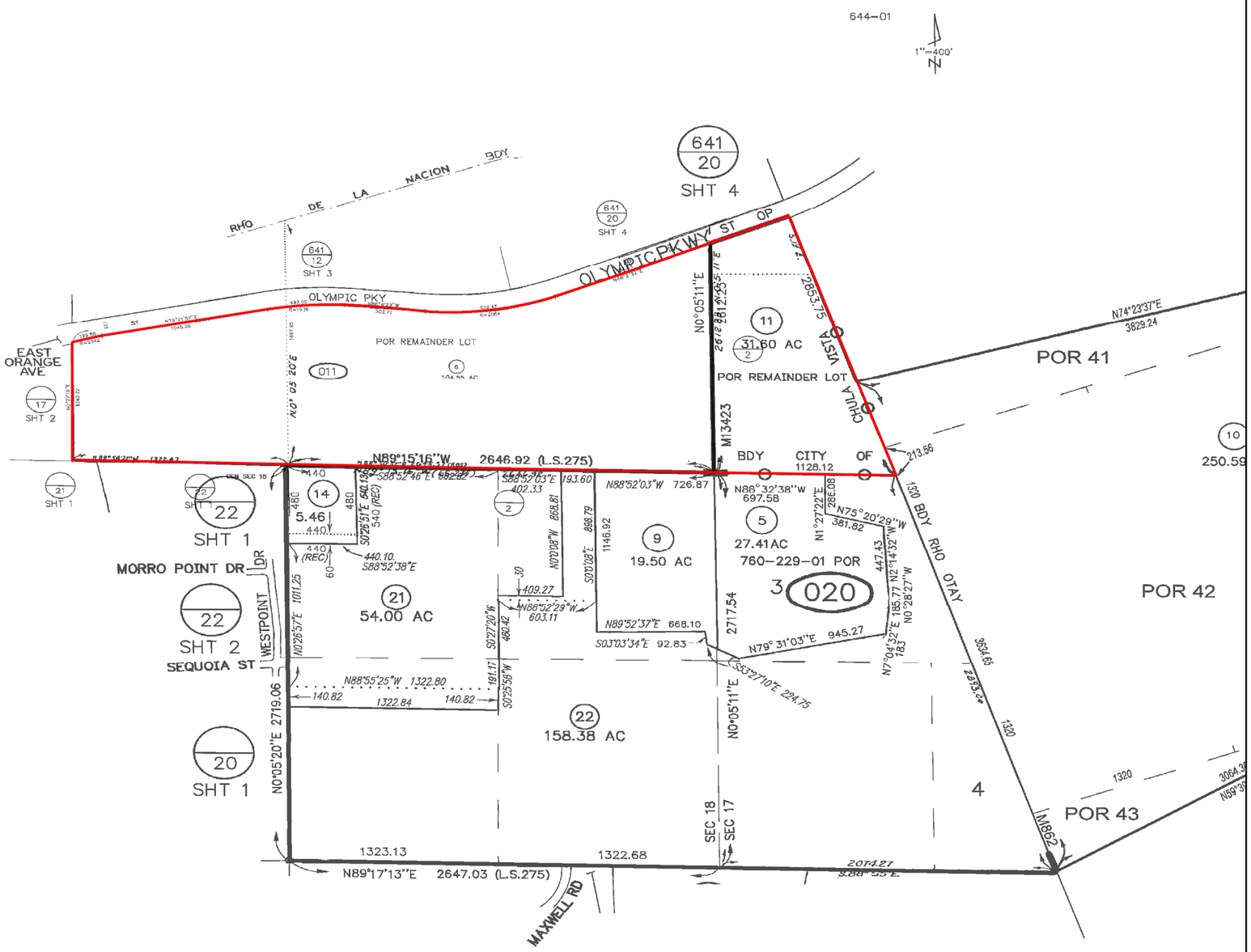
1. utilization, manufacture, storage, or discharge of hazardous materials/waste.
2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste.
3. hazardous materials disclosures concerning the site.
4. pipelines.
5. information regarding underground storage tank present or previously found at the site.

Should you have any questions concerning this request for information, please call. Your expedient processing of this request is appreciated.

Sincerely,
Environmental Support Services

Shannon Castagno

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com



Chicago Title Company

ORDER NO.

00105855-996

11/12/2019

APN

644-011-06-00 & 644-020-11-00

Legend

PIQ

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Shannon Castagno

From: Request, PRA@CALFIRE <pra.request@fire.ca.gov>
Sent: Thursday, January 2, 2020 2:33 PM
To: Shannon Castagno (Shannon@EnvironmentalSupportServices.com)
Subject: FW: 19-P-1298 FW: New Public Records Request
Attachments: Parcel Map.pdf; Olympic1Incident.pdf; Olympic2Incident.pdf; Olympic3Incident.pdf

Good Afternoon Shannon:

The Office of the State Fire Marshall, OSFM, has identified records responsive to your request. Please see the attachments.

Please note, you may also visit the CalEPA regulated site portal at https://siteportal.calepa.ca.gov/nsite/ to see if they have any information for this address.

Thank you.

Sincerely,

Anne Henigan

CAL FIRE Legal Services

From: Shannon Castagno [mailto:shannon@environmentalsupportservices.com]
Sent: Monday, December 23, 2019 3:58 PM
To: Request, PRA@CALFIRE <pra.request@fire.ca.gov>
Subject: New Public Records Request

Warning: this message is from an external user and should be treated with caution.

Environmental Support Services
Environmental Research & Due Diligence Compliance
30251 Golden Lantern, #E-305, Laguna Niguel, CA 92677
Tel) 949-429-3564 • Fax) 949-429-3563
www.EnvironmentalSupportServices.com • Info@EnvironmentalSupportServices.com

December 23, 2019

Cal Fire
Office of the State Fire Marshal

Attention: Public Records Request

Subject: Records Search – Hazardous Materials/Waste/Underground Tanks/Pipelines

Site: Olympic Parkway
Chula Vista, CA 91911
APNs 644-011-06-00 & 644-020-11-00
(See Attached Map)

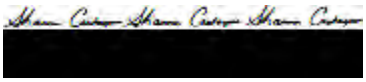
Dear Public Records Request,

Environmental Support Services (ESS) is in the process of conducting a records search for an environmental audit at a site in Chula Vista, CA. This search includes researching the history of the site, especially as it pertains to hazardous materials/waste. With this in mind, **ESS** requests the following information concerning the subject address which your agency may have on file:

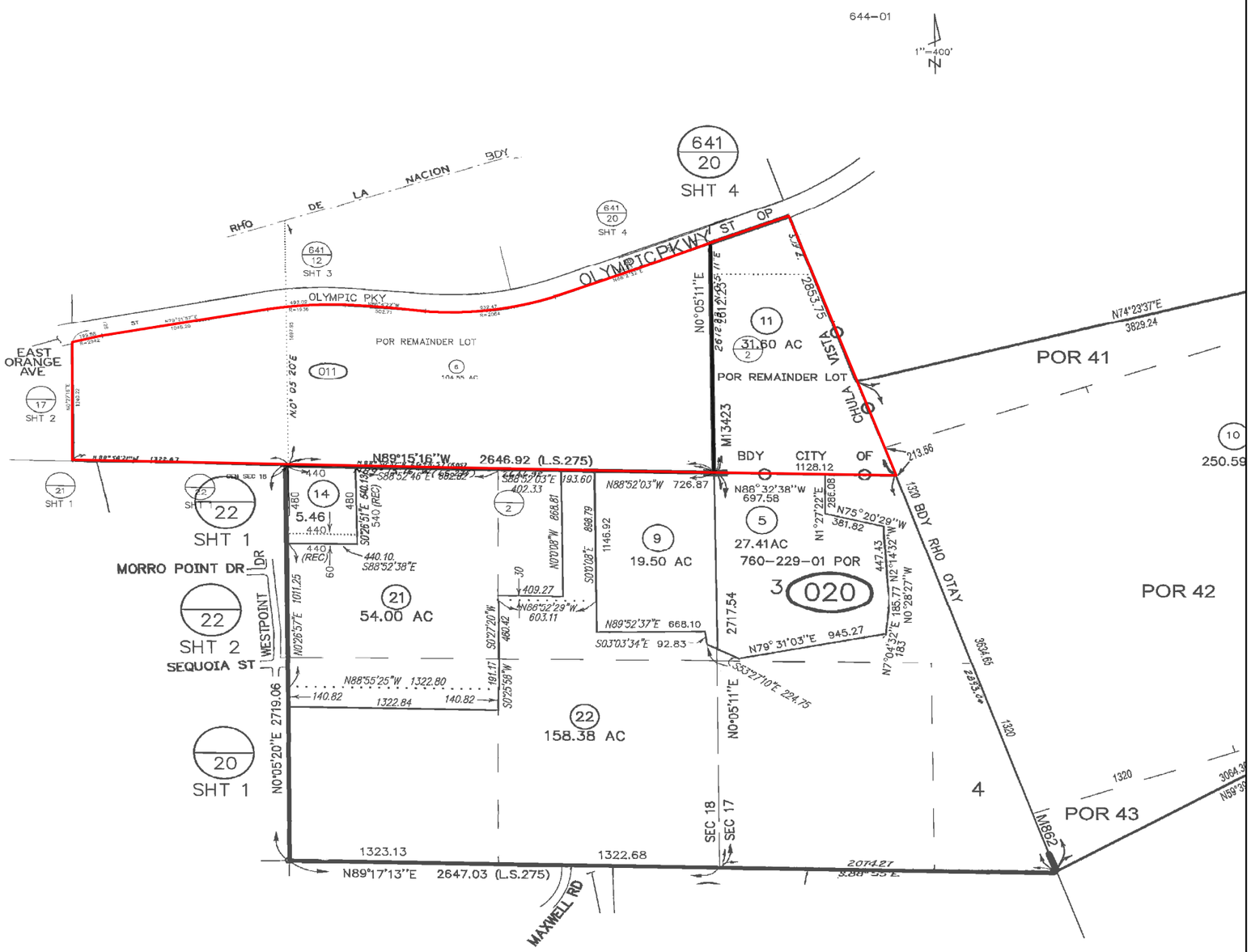
1. utilization, manufacture, storage, or discharge of hazardous materials/waste.
2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste.
3. hazardous materials disclosures concerning the site.
4. pipelines.
5. information regarding underground storage tank present or previously found at the site.

Should you have any questions concerning this request for information, please call. Your expedient processing of this request is appreciated.

Sincerely,
Environmental Support Services



Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com



Chicago Title Company

ORDER NO.

00105855-996

11/12/2019

APN

644-011-06-00 & 644-020-11-00

Legend

PIQ

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A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
37030	CA	10/17/2011	007	0012493	0

NFIRS - 1 Basic

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
1 - Street addres	1250		Olympic	Parkway	

Apt./Suite/Room	City	State	Zip Code
	CHULA VISTA	CA	91913

Census Tract

Cross street or directions, as applicable

C Incident Type

412 - Gas leak (natural

Incident Type

D Aid Given or Received

Their FDID | Their State | Their Incident Number

N - None

Type Aid Given or Recieved

E1 Dates & Times Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	10/17/2011			09:12:08		
Arrival	10/17/2011			09:17:58		
Controlled						
Last Unit Cleared	10/17/2011			09:53:05		

E2 Shifts & Alarms Local Option

Shift or platoon	Alarms	District
C	0	

E3 Special Studies Local Option

Special Study ID# | Special Study Value

F Actions Taken

86 - Investigate

Actions Taken

G1 Resources

[Y] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	2	4
EMS	0	0
Other	0	0

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property $

Contents $

PRE-INCIDENT VALUE: Optional

Property $

Contents $

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release: 1 - Natural gas: slow leak, no evac.

I Mixed Use Property

J Property Use: 215 - High school/junior high school/middle sch

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
37030	CA	10/17/2011	007	0012493	0

NFIRS Remarks

Remarks

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
391	Jeffrey Ewert	CP	E57	10/23/2011

Member making report ID

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
37030	CA	10/17/2011	007	0012493	0

NFIRS - 9
Apparatus or Resources

B Apparatus or Resource (Use codes listed below)	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1 ID: E57 Type: 11	Dispatch: 10/17/2011 09:12 Arrival: 10/17/2011 09:17 Clear: 10/17/2011 09:53	X	3	1 - Suppress	
2 ID: B52 Type: 92	Dispatch: 10/17/2011 09:26 Arrival: 10/17/2011 09:33 Clear: 10/17/2011 09:51	X	1	1 - Suppress	
3 ID: Type:	Dispatch: Arrival: Clear:				
4 ID: Type:	Dispatch: Arrival: Clear:				
5 ID: Type:	Dispatch: Arrival: Clear:				
6 ID: Type:	Dispatch: Arrival: Clear:				
7 ID: Type:	Dispatch: Arrival: Clear:				
8 ID: Type:	Dispatch: Arrival: Clear:				
9 ID: Type:	Dispatch: Arrival: Clear:				
10 ID: Type:	Dispatch: Arrival: Clear:				
11 ID: Type:	Dispatch: Arrival: Clear:				
12 ID: Type:	Dispatch: Arrival: Clear:				
13 ID: Type:	Dispatch: Arrival: Clear:				

A	FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure	NFIRS - 10 Personnel
	37030	CA	10/17/2011	007	0012493	0	

B	Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1	ID E57 Type 11	Dispatch 10/17/2011 09:12:22 Arrival 10/17/2011 09:17:58 Clear 10/17/2011 09:53:05	Sent X	3 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
391	Ewert, Jeffrey	CP	X				
384	Johnson, Thomas	ENG	X				
447	Warren, Brent	FF	X				

2	ID B52 Type 92	Dispatch 10/17/2011 09:26:41 Arrival 10/17/2011 09:33:57 Clear 10/17/2011 09:51:38	Sent X	1 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
451	Davidson, John	BC	X				

3	ID Type	Dispatch Arrival Clear	Sent	#		

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
37140	CA	11/27/2010	CV5	0109067	0

NFIRS Remarks

Remarks

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
SB2318	Steven Bixler	C	1	12/11/2010

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
SB2318	Steven Bixler	C	1	12/11/2010

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
37140	CA	02/16/2018	CV5	0021590	0

NFIRS - 1 Basic

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
2 - Intersection			Olympic	Parkway	

Apt./Suite/Room	City	State	Zip Code
	CHULA VISTA	CA	91911

Census Tract:

Cross street or directions, as applicable: Brandywine

C Incident Type

411 - Gasoline or other

Incident Type

D Aid Given or Received

Their FDID: | Their State: | Their Incident Number:

N - None

Type Aid Given or Recieved

E1 Dates & Times (Midnight is 0000)

	Month	Day	Year	Hour	Min	Seconds
Alarm	02/16/2018			14:57:37		
Arrival	02/16/2018			15:02:01		
Controlled						
Last Unit Cleared	02/16/2018			16:19:04		

E2 Shifts & Alarms (Local Option)

Shift or platoon: | Alarms: | District:

E3 Special Studies (Local Option)

Special Study ID#: | Special Study Value:

F Actions Taken

86 - Investigate
41 - Identify, analyze hazardous materials

Actions Taken

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	1	0
EMS	1	4
Other	0	0

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property $

Contents $

PRE-INCIDENT VALUE: Optional

Property $

Contents $

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector: U - Unknown

H3 Hazardous Materials Release: N - None

I Mixed Use Property:

J Property Use: 960 - Street, other

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
37140	CA	02/16/2018	CV5	0021590	0

NFIRS Remarks

Remarks

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
HZ5857	Kieran Moloney HZ	C	1	02/18/2018

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
HZ5857	Kieran Moloney HZ	C	1	02/18/2018

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
37140	CA	02/16/2018	CV5	0021590	0

NFIRS - 9
Apparatus or Resources

B Apparatus or Resource (Use codes listed below)	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1 ID: HZNOT Type: 93	Dispatch: 02/16/2018 15:24 Arrival: Clear: 02/16/2018 15:25	X	0	1 - Suppress	
2 ID: Hzm1 Type: 93	Dispatch: 02/16/2018 15:08 Arrival: 02/16/2018 15:50 Clear: 02/16/2018 16:15	X	4	2 - EMS	
3 ID: Type:	Dispatch: Arrival: Clear:				
4 ID: Type:	Dispatch: Arrival: Clear:				
5 ID: Type:	Dispatch: Arrival: Clear:				
6 ID: Type:	Dispatch: Arrival: Clear:				
7 ID: Type:	Dispatch: Arrival: Clear:				
8 ID: Type:	Dispatch: Arrival: Clear:				
9 ID: Type:	Dispatch: Arrival: Clear:				
10 ID: Type:	Dispatch: Arrival: Clear:				
11 ID: Type:	Dispatch: Arrival: Clear:				
12 ID: Type:	Dispatch: Arrival: Clear:				
13 ID: Type:	Dispatch: Arrival: Clear:				

A	FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure	NFIRS - 10 Personnel
	37140	CA	02/16/2018	CV5	0021590	0	

B Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID HZNOT Type 93	Dispatch 02/16/2018 15:24:36 Arrival Clear 02/16/2018 15:25:31	X	0 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

2 ID Hzm1 Type 93	Dispatch 02/16/2018 15:08:43 Arrival 02/16/2018 15:50:38 Clear 02/16/2018 16:15:49	X	4 #	2 - EMS		

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
HZ5857	Moloney_HZ, Kieran	C	X				
HZ9701	Lacey_HZ, Charles	FF	X				
HZ3185	DeBoer_HZ, Travis	E	X				
HZ2114	Loftis_HZ, Justin	FFPM	X				

3 ID Type	Dispatch Arrival Clear		#			

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

Appendix H

Request for Records Search to the
City of Chula Vista Public Works – Industrial Waste and
Extension Request Obtained from that Agency

CITY OF CHULA VISTA

OFFICE OF THE CITY CLERK CITY OF CHULA VISTA

REQUEST FOR PUBLIC RECORDS

276 Fourth Avenue, Chula Vista, CA 91910 Phone: (619) 691-5041

cityclerk@chulavistaca.gov

PURSUANT TO THE CALIFORNIA PUBLIC RECORDS ACT (GOVERNMENT CODE § 6250 ET. SEQ) YOU WILL BE NOTIFIED WITHIN 10-DAYS OF THE STATUS OF YOUR REQUEST.

To expedite your request and to eliminate opportunities for error, please complete this form with as much detail as possible and identify specifically the records you are requesting. Requests should reasonably describe identifiable records prepared, owned, used or retained by the City of Chula Vista. If you need assistance with identifying a specific type of record we would be happy to help (Government Code § 6253.1).

REQUESTOR INFORMATION

Name: *
Shannon Castagno

Date:
12/23/2019

Company/Organization:
Environmental Support Services

Email Address: *
Shannon@EnvironmentalSupportServices.com

Address:

Street Address
30251 Golden Lantern, #E305

Address Line 2

City
Laguna Niguel

State / Province / Region
CA

Postal / Zip Code
92677

Country

Phone Number: *
9494293564

Fax Number:

REQUESTED RECORDS

- ☐ Fire Inspection/Incident Records
- ☐ Police Records
- ☐ Animal Control Records
- ☐ Code Enforcement Records
- ☐ Planning Records (i.e. Zoning)
- ☐ Building Records (i.e. Permits, inspections)
- ☐ Copy of Business License
- ☐ Financial Records
- ☑ Other (Describe Below)

DESCRIPTION OF RECORDS: *

Limited to 255 Characters. Add additional pages as necessary by uploading supporting documents.

Site: Olympic Parkway
Chula Vista, CA 91911 APNs 644-011-06-00 & 644-020-11-00
ESS requests the following information from Public Works: copies of applications and permits for industrial waste discharge; and copies of any and all violations.

Supporting Documents:

For multiple records that cover a period of time please indicate:

TIME PERIOD OF RECORD REQUESTED

From: **To:**

DIRECT COST OF DUPLICATION: $1.00 FOR THE FIRST PAGE/10¢ FOR EACH ADDITIONAL PAGE

☐ I wish to inspect the requested records. I do not want copies at this time.

☑ I wish to receive requested records electronically. (Depending on file size and type of record some records may not be available for electronic delivery.)

☐ I wish to receive copies of requested records. Please contact me prior to copying if the cost exceeds: $

☐ I wish to receive copies of requested records and I hereby agree to reimburse the City for the direct cost of duplication in accordance with Gov. Code §6253(b).

Signature: Shannon Castagno

PRA Exceptions: Requests requiring computer programming will be charged a fee of the full cost including overhead for the time to create such document or program. Requestor will be required to provide a deposit to cover estimated costs, as calculated by City Staff. Requests for these services must be made in writing.

CITY OF CHULA VISTA

Office of the City Clerk

SENT ELECTRONICALLY

1/2/2020

Attn: Shannon Castagno
Shannon@EnvironmentalSupportServices.com

Re: California Public Records Act Request
CPRAR 2019-944/Castagno

Dear Shannon Castagno,

The City of Chula Vista is in receipt of your 12/23/2019 request for the following public records pursuant to the *California Public Records Act* ("CPRA") (Cal. Gov. Code section 6250 *et seq*.):

"Site: Olympic Parkway, Chula Vista, CA 91911 APNs 644-011-06-00 & 644-020-11-00. ESS requests the following information: copies of applications and permits for industrial waste discharge; and copies of any and all violations."

Please be advised, your request requires the need to search for, collect, and appropriately examine a number of separate and distinct records that are demanded in a single request; therefore, pursuant to the provisions of Government Code section 6253(c), the City is asserting its authority to extend the time to reply. This assertion of the City's authority to extend the time to reply shall not serve as a waiver of any privileges or exemptions to disclosure pursuant to applicable provisions of the CPRA and any other applicable statutory and/or case law authority.

In light of the above, this office will respond to your request on or before **1/16/2020** to inform you of when responsive records may be available. Thank you in advance for your patience and anticipated consideration regarding this matter.

Should you have any questions please feel free to contact me at (619) 409-5961.

Sincerely,

Tamisha Woods

Ms. Tamisha Woods
Sr. Records Specialist

Appendix I

Request for Records Search to the
City of Chula Vista Building Department and
Response Obtained from that Agency

CITY OF CHULA VISTA

OFFICE OF THE CITY CLERK CITY OF CHULA VISTA

REQUEST FOR PUBLIC RECORDS

276 Fourth Avenue, Chula Vista, CA 91910 Phone: (619) 691-5041

cityclerk@chulavistaca.gov

PURSUANT TO THE CALIFORNIA PUBLIC RECORDS ACT (GOVERNMENT CODE § 6250 ET. SEQ) YOU WILL BE NOTIFIED WITHIN 10-DAYS OF THE STATUS OF YOUR REQUEST.

To expedite your request and to eliminate opportunities for error, please complete this form with as much detail as possible and identify specifically the records you are requesting. Requests should reasonably describe identifiable records prepared, owned, used or retained by the City of Chula Vista. If you need assistance with identifying a specific type of record we would be happy to help (Government Code § 6253.1).

REQUESTOR INFORMATION

Name: *
Shannon Castagno

Date:
12/23/2019

Company/Organization:
Environmental Support Services

Email Address: *
Shannon@EnvironmentalSupportServices.com

Address:

Street Address
30251 Golden Lantern, #E305

Address Line 2

City
Laguna Niguel

State / Province / Region
CA

Postal / Zip Code
92677

Country

Phone Number: *
9494293564

Fax Number:

REQUESTED RECORDS

- ☐ Fire Inspection/Incident Records
- ☐ Police Records
- ☐ Animal Control Records
- ☐ Code Enforcement Records
- ☐ Planning Records (i.e. Zoning)
- ☑ Building Records (i.e. Permits, inspections)
- ☐ Copy of Business License
- ☐ Financial Records
- ☐ Other (Describe Below)

DESCRIPTION OF RECORDS: *

Limited to 255 Characters. Add additional pages as necessary by uploading supporting documents.

I hereby request copies of all building permits and certificates of occupancy for the following site:
Site: Olympic Parkway
Chula Vista, CA 91911
APNs 644-011-06-00 & 644-020-11-00

Supporting Documents:

For multiple records that cover a period of time please indicate:

TIME PERIOD OF RECORD REQUESTED

From: **To:**

DIRECT COST OF DUPLICATION: $1.00 FOR THE FIRST PAGE/10¢ FOR EACH ADDITIONAL PAGE

- [ ] I wish to inspect the requested records. I do not want copies at this time.
- [x] I wish to receive requested records electronically. (Depending on file size and type of record some records may not be available for electronic delivery.)
- [ ] I wish to receive copies of requested records. Please contact me prior to copying if the cost exceeds: $
- [ ] I wish to receive copies of requested records and I hereby agree to reimburse the City for the direct cost of duplication in accordance with Gov. Code §6253(b).

Signature: Shannon Castagno

PRA Exceptions: Requests requiring computer programming will be charged a fee of the full cost including overhead for the time to create such document or program. Requestor will be required to provide a deposit to cover estimated costs, as calculated by City Staff. Requests for these services must be made in writing.

CITY OF CHULA VISTA

Office of the City Clerk

SENT ELECTRONICALLY

12/23/2019

Attn: Shannon Castagno
Shannon@EnvironmentalSupportServices.com

Re: California Public Records Act Request
CPRAR 2019-942/Castagno

Dear Shannon Castagno,

The City of Chula Vista is in receipt of your 12/23/2019 request for the following public records pursuant to the *California Public Records Act* ("CPRA") (Cal. Gov. Code section 6250 *et seq*.):

"I hereby request copies of all building permits and certificates of occupancy for the following site: Olympic Parkway, Chula Vista, CA 91911. APNs 644-011-06-00 & 644-020-11-00"

I have been informed by staff that there are no responsive records to your request. I have also been informed by staff that they believe that they have fully responded to your request; however, if you need additional information I will assist you in your efforts pursuant to Government Code section 6253.1.

Sincerely,

Tamisha Woods

Ms. Tamisha Woods
Sr. Records Specialist

Appendix J

Request for Records Search to the
San Diego Air Pollution Control District and
Response Obtained from that Agency

San Diego Air Pollution Control District

10124 Old Grove Rd, San Diego, CA 92131
www.sdapcd.org
858.586.2600 FAX: 858.586.2601 Email: apcdpermits@sdcounty.ca.gov

PUBLIC RECORDS REQUEST FORM

ATTENTION REQUESTOR: To expedite your request for District records, please fill out this form completely, and identify specifically the type of records you are requesting. Please limit your request to one facility or one site address for each request form filed. Additional forms or pages can be used if requesting information for more than one facility or for records not identified on this form. Requests should reasonably describe identifiable records prepared, owned, used, or retained by the District. District Public Records staff is available to assist you in identifying those records in the District's possession. The District is not required by law to create a new record.

NAME:	Environmental Support Services Shannon Castagno 30251 Golden Lantern, Suite #E-305 Laguna Niguel, CA 92677 Tel: 949-429-3564 - Fax: 949-429-3563 Shannon@EnvironmentalSupportServices.com	DATE: 12/23/19
COMPANY:		
MAILING ADDRESS:		
CITY:		ZIP CODE:
PHONE NUMBER:		
EMAIL ADDRESS:		

REQUESTED RECORDS

☑ Applications (APP)	☑ Complaints (CMP)	☐ Asbestos Notifications/Records (ASB)
☑ Authority to Construct	☑ Site Inspection Reports	☑ Permits to Operate (PTO)
☑ Notices to Comply (NTC)	☑ Source Test Reports	☑ Toxic-Health Risk Assessment (HRA)
☑ Notices of Violation (NOV)	☑ Emissions Inventory	☐ Air monitoring data
☑ Title V Permit	☐ Other (describe below or on additional pages):	

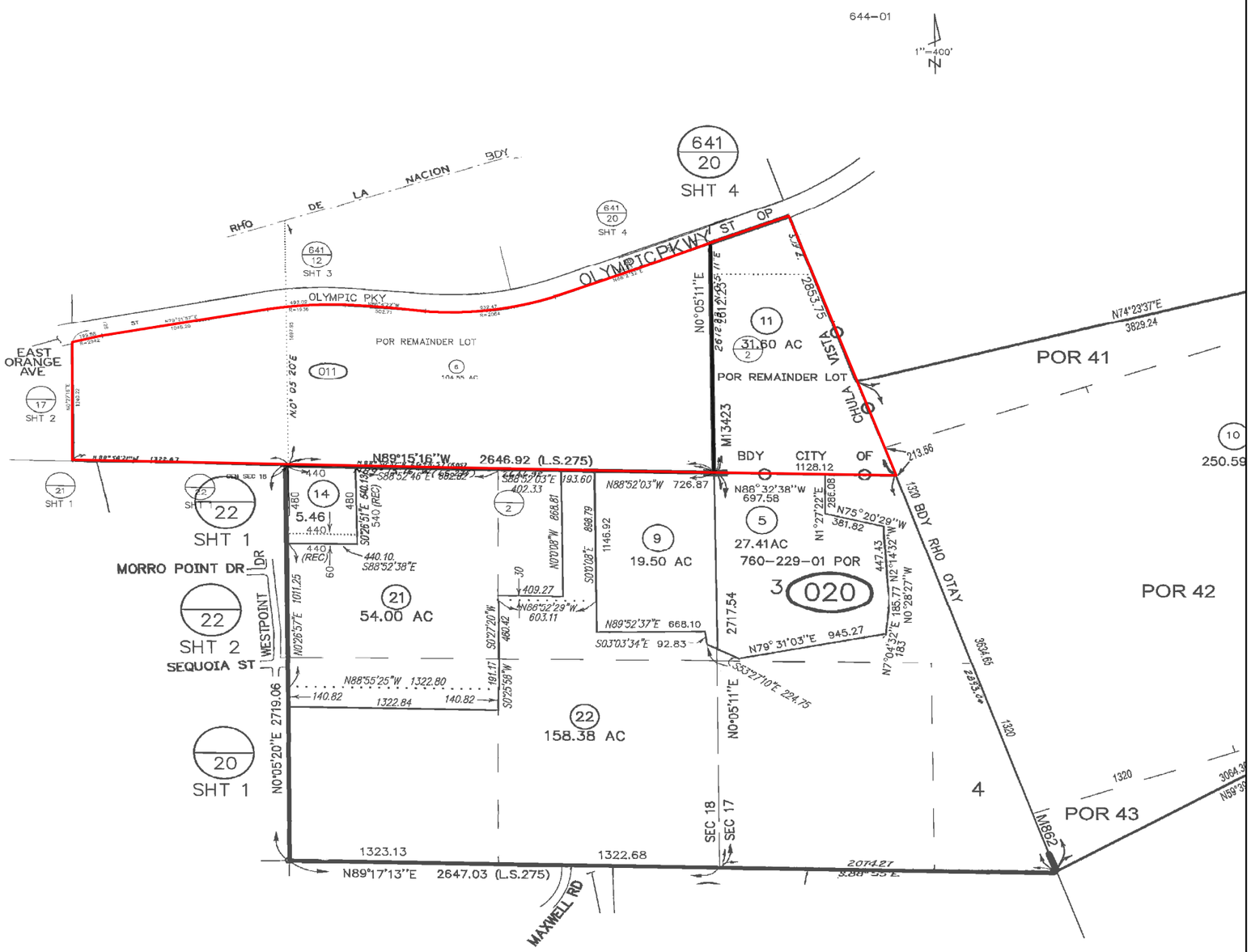
TIME PERIOD OF DOCUMENTS REQUESTED From: All To:

REQUESTED ADDRESS INFORMATION (If Applicable)

☐ Equipment Location Address	Site: Olympic Parkway Chula Vista, CA 91911 APNs 644-011-06-00 & 644-020-11-00 (See Attached Map)
☐ Owner Mailing Address	
☐ Billing Address	
SITE I.D. NO. (if known):	

☐ I wish to inspect the requested records. I do not want copies produced at this time.
☐ I request that the SDAPCD contact me prior to copying the requested records if the cost exceeds $20.00.
☑ I would like copies of the requested records.
☑ I hereby agree to reimburse the SDAPCD for the direct cost of duplication and any other applicable charges (See Paragraph 8 of the Instructions for Requesting Records.

Signature of Requestor Shannon Castagno Date 12/23/19



Chicago Title Company

ORDER NO.

00105855-996

11/12/2019

APN

644-011-06-00 & 644-020-11-00

Legend

PIQ

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Shannon Castagno

From: Gould, Cynthia <Cynthia.Gould@sdcounty.ca.gov>
Sent: Monday, December 30, 2019 11:42 AM
To: Shannon Castagno
Subject: RE: New Public Records Request

Good morning: no records for APNs 644-011-06-00 and 644-020-11-00. Thanks.

Cynthia R. Gould | APCD Aide & Public Records Liaison | Air Pollution Control District
10124 Old Grove Road | San Diego CA 92131 | Phone: 858-586-2616 | Fax: 858-586-2601
Celebrating 64 Years Clean Air Progress

From: Shannon Castagno <shannon@environmentalsupportservices.com>
Sent: Monday, December 23, 2019 4:28 PM
To: Gould, Cynthia <Cynthia.Gould@sdcounty.ca.gov>; LUEG, APCDPermits <apcdpermits@sdcounty.ca.gov>
Subject: New Public Records Request

Hi Cynthia,

Please see attached public records request.

Please let me know if you have any questions.

Thank again and have a wonderful Holiday Season!

Sincerely,
Shannon Castagno
Project Manager
Tel) 949-429-3564
Fax) 949-429-3563
http://EnvironmentalSupportServices.com

Appendix K

Request for Records Search to the
Regional Water Quality Control Board – San Diego Region and
Response Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
30251 Golden Lantern, #E-305, Laguna Niguel, CA 92677
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

December 23, 2019

Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Ste 100
San Diego, CA 92123

Attention: LUST/WIP/SLIC/Site Mitigation Divisions

Dear Public Records Request,

Please check for any files/information on the following sites:

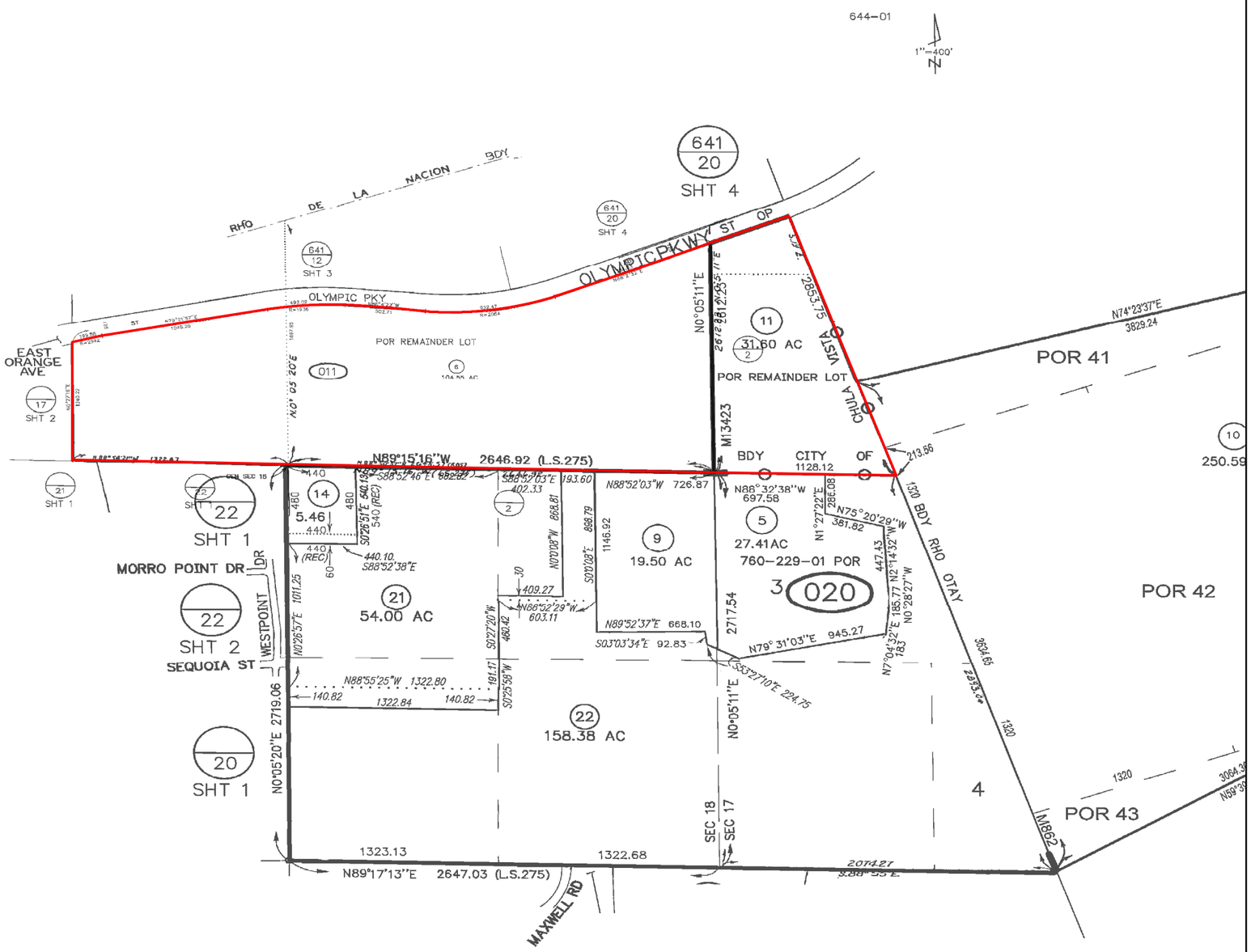
Site: Olympic Parkway
Chula Vista, CA 91911
APNs 644-011-06-00 & 644-020-11-00
(See Attached Map)

I would like to set up an appointment to review this file **as soon as possible**. Anything you can do to expedite this request would be greatly appreciated. Please call me at
(949) 429-3564. Thanks!

Sincerely,
Environmental Support Services

Shannon Castagno

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com



Chicago Title Company

ORDER NO.

00105855-996

11/12/2019

APN

644-011-06-00 & 644-020-11-00

Legend

PIQ

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Shannon Castagno

From: Lorch, Leah@Waterboards <Leah.Lorch@Waterboards.ca.gov>
Sent: Monday, January 6, 2020 1:55 PM
To: Shannon Castagno
Subject: RE: Checking on the Status of my Public Records Request

Good Afternoon Shannon,

I am only able to look up the APN's in one database and no records were found. I also searched GeoTracker using the map and no records were found.

Leah Lorch
Office Technician (T)
Public Records Coordinator
San Diego Regional Water Quality Control Board
2375 Northside Drive, Suite 100
San Diego, CA 92108
(619) 516-1993

From: Shannon Castagno <shannon@environmentalsupportservices.com>
Sent: Friday, January 3, 2020 11:49 AM
To: RB9_Records, WB@Waterboards <rb9_records@waterboards.ca.gov>
Subject: Checking on the Status of my Public Records Request

EXTERNAL:

Could you please give me an update on the status of my request below?

Thanks and have a wonderful Friday!

Sincerely,
Shannon Castagno
Project Manager
Tel) 949-429-3564
Fax) 949-429-3563
http://EnvironmentalSupportServices.com

From: Shannon Castagno <shannon@environmentalsupportservices.com>
Sent: Monday, December 23, 2019 4:17 PM
To: 'rb9_records@waterboards.ca.gov' <rb9_records@waterboards.ca.gov>
Subject: Public Records Request

Environmental Support Services

Environmental Research & Due Diligence Compliance
30251 Golden Lantern, #E-305, Laguna Niguel, CA 92677
Tel) 949-429-3564 • Fax) 949-429-3563
www.EnvironmentalSupportServices.com • Info@EnvironmentalSupportServices.com

December 23, 2019

Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Ste 100
San Diego, CA 92123

Attention: LUST/WIP/SLIC/Site Mitigation Divisions

Dear Public Records Request,

Please check for any files/information on the following sites:

Site: Olympic Parkway
Chula Vista, CA 91911
APNs 644-011-06-00 & 644-020-11-00
(See Attached Map)

I would like to set up an appointment to review this file **as soon as possible**. Anything you can do to expedite this request would be greatly appreciated. Please call me at
(949) 429-3564. Thanks!

Sincerely,
Environmental Support Services

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Shannon Castagno

From: Tamisha Woods <twoods@chulavistaca.gov>
Sent: Wednesday, January 8, 2020 3:15 PM
To: 'Shannon@EnvironmentalSupportServices.com'
Cc: Tyshar Turner
Subject: Request for Public Records-CPRAR 2019-944/Castagno
Attachments: 19-944_Castagno Responsive Records.pdf; CPRAR 2019-944_Castagno - Responsive Records Available - Electronic.doc

Confirmation of receipt of this email is appreciated but not required.

Please see the attached regarding your request for public records.

Should you have any questions or if I can be of assistance, please feel free to contact me.

Thanks.

Ms. Tamisha Woods
Office of the City Clerk
Sr. Records Specialist
619.409.5961 P
twoods@chulavistaca.gov

Connect with us!

| Sign up for our monthly Community Connection newsletter!

SENT ELECTRONICALLY

1/8/2020

Attn: Shannon Castagno
Shannon@EnvironmentalSupportServices.com

Re: California Public Records Act Request
CPRAR 2019-944/Castagno

Dear Shannon Castagno,

The City of Chula Vista is in receipt of your 12/23/2019 request for the following public records pursuant to the *California Public Records Act* ("CPRA") (Cal. Gov. Code section 6250 *et seq*.):

"Site: Olympic Parkway, Chula Vista, CA 91911 APNs 644-011-06-00 & 644-020-11-00. ESS requests the following information: copies of applications and permits for industrial waste discharge; and copies of any and all violations."

The City has identified records responsive to your request. The records that have been identified and are responsive are being sent to you electronically.

I have been informed by staff that they believe that they have fully responded to your request; however, if you need additional information I will assist you in your efforts pursuant to Government Code section 6253.1.

Should you have any questions please contact me at (619) 409-5961.

Regards,

Tamisha Woods

Ms. Tamisha Woods
Sr. Records Specialist

City of Chula Vista
Code Enforcement Case History

Opened:

Status:

Owner:

Type:

Address:

Description:

Workflow

Date	Task	Action	Staff	Comments

Inspection

Date	Inspection	Action	Staff	Comments
07/13/06	Initial Inspection	CL	sg	ssv, looks like water tower although it is red. t/c to stan donn, said he spoke to otay water and it is their easement and is indeed a water tower going up. t/c to (c) she is still unhappy and wanted to know who she could complain to next, she suggested the governor, i suggested otay water. advised her they might plan to paint it green when it's complete, she was still upset. sg

U.S. Environmental Protection Agency

MyProperty

Environmental Databases Search

The search of EPA's Facility Registry System did not locate any records for the search criteria provided below:

Search Criteria:

Street Address: Olympic Parkway
City, State: Chula Vista, CA
Query executed on: 01/15/2020 09:18 PM **EST**

Contact the appropriate state, tribal or local agencies if you seek additional information.

Disclaimer

FINAL
PHASE I ENVIRONMENTAL SITE ASSESSMENT
SUNBOW PROJECT
CHULA VISTA, CALIFORNIA

Prepared for

The City of Chula Vista
Planning and Building Department

Prepared by

ENVIRON International Corporation
Irvine, California

May 24, 2005

Prepared by:

ENVIRON International Corporation
2010 Main Street, Suite 900
Irvine, California 92614
Tel. (949) 261-5151
Fax (949) 261-6202

Kristin Thomas
Associate

Yi Tian
Manager

Carol Serlin, R.G.
Principal

CONTENTS

CONTENTS (Continued)

TABLES

FIGURES

APPENDICES

P:\C\City of Chula Vista\Phase I\City of Chula Vista Sunbow Phase I FINAL- Revised.doc

1.0 SUMMARY OF CONCLUSIONS

Subject to the qualifications and limitations stated in Chapter 2.0 (Introduction), ENVIRON International Corporation (ENVIRON) was retained by the City of Chula Vista to perform a Phase I environmental site assessment (ESA) for two parcels of land (Parcels A and B), located in the City of Chula Vista, San Diego County, California (herein referred to as the "Property"). ENVIRON's assessment was conducted in connection with ACI Sunbow, LLC (Sunbow) and the Ayres Land Company's (Ayres) proposed zoning change and development of the Property as a residential community. This ESA is being completed in connection with a Human Health Risk Assessment to evaluate the potential human health risks associated with the former Hazardous Waste transfer station, the former Class I landfill, and the current Class III Otay Landfill operations located to the east and south of the Property. The ESA described in this report was performed in conformance with the scope and limitations of the American Society of Testing and Materials (ASTM) Practice E1527-00. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report.

Based on ENVIRON's review, no "recognized environmental conditions," (RECs) or historical RECs (HRECs) as defined by ASTM (see Chapter 2.0), were identified as a result of this ESA. However, pertinent findings that are not representative of RECs (i.e., *de minimis* conditions[1]) are presented below:

- The area in the nearby vicinity of the Property consists predominantly of residential developments. The Otay Landfill borders Parcel A to the south and Parcel B consists of the northwestern portion of the Otay Landfill area (but has not been used for landfilling purposes). The Otay Landfill is a Class III municipal solid waste landfill comprising approximately 464 acres, of which approximately 230 acres are currently permitted for landfilling. It is permitted for disposal of non-hazardous waste, which includes residential and commercial municipal solid waste, inert solid waste, and industrial waste.

  Landfill wastes contain significant portions of organic materials that produce a variety of gaseous products, generally referred to as landfill gas (LFG). Anaerobic bacteria thrive

[1] The ASTM Standard defines *de minimis* conditions as those 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 of brought to the attention of appropriate governmental agencies."

in the oxygen-free environment, resulting in the decomposition of the organic materials and the production of LFG. LFG is composed of a mixture of hundreds of different gases. By volume, LFG typically contains 45% to 60% methane and 40% to 60% carbon dioxide. LFG also includes small amounts of nitrogen, oxygen, ammonia, sulfides, hydrogen, carbon monoxide, and nonmethane organic compounds (NMOCs) such as trichloroethylene, benzene, and vinyl chloride.

Methane, which is less soluble in water and lighter than air, is likely to migrate out of the landfill. LFG is created under the landfill surface and generally moves away from the landfill, either by rising up through the landfill surface or migrating underground to surrounding areas. Three factors influence where gas migrates to, permeability of the landfill and its surrounding areas, diffusion (LFG moves to areas with lower gas concentrations), and pressure (LFG moves to areas of lower pressure; changing weather conditions affect LFG migration).

LFG releases may represent physical (explosion), chemical (substances in ambient or indoor air), and/or physiologic or quality of life (odor) public health concerns for those who live and work near the landfill. Based on ENVIRON's experience with landfilling activities, the potential for migration of LFG to the Property cannot be ruled out and will be addressed in more detail in ENVIRON's health risk assessment being prepared in conjunction with this Phase I ESA.

- According to the URS Report, a Class I Landfill site formerly was operated in the vicinity of the Property (approximately 500 feet of the eastern boundary of Parcel B and immediately adjacent to the south of Parcel A) beginning in 1963. The Otay Class III Landfill surrounds the former Class I Landfill. The Class I portion of the landfill occupied approximately 21 acres on the 47-acre County landfill site. According to the URS report, approximately 17 million gallons of liquid hazardous wastes were disposed of in this unlined landfill from 1963 through October 1980. Wastes accepted at this Class I landfill included, but was not limited to, oil and oil/water mixtures; paint and paint sludges; chemical fertilizers; chemical toilet wastes; drilling muds; brines; corrosive pickling liquors; corrosive acids and alkalines; plating wastes; acid wastes; and acid enchants. Based on historic information, approximately 100,000 cubic yards of hazardous solid waste was also disposed at this facility, including, but not limited to, asbestos, oil spill booms, debris, and paint. Reportedly, when the Class I landfill was closed in 1980, a closure plan was prepared and approved by the appropriate regulatory

agencies. As part of the post-closure, ground water monitoring wells are sampled on a regular basis. Ground water monitoring wells are used to establish ground water quality and the ground water flow direction in proximity to both the Class III and former Class I landfills.

According to information provided in the most recent groundwater monitoring report (prepared by GeoLogics Associates, Inc. [GeoLogics], dated October 2004) the ground water flow direction in proximity to the former Class I landfill is toward the west-southwest. Based on this ground water flow direction, monitoring wells OTGW-24, OTGW-25, and OTGW-17 are located generally downgradient of the landfill and upgradient of Parcel B. Based on the most recent ground water sampling data, volatile organic compounds (VOCs) were not detected in ground water in these wells. Assuming that these recent data are indicative of future trends, VOCs have not and likely will not impact ground water underlying Parcel B. Because no VOCs were detected above laboratory detection levels in wells adjacent to Parcel B (downgradient from the former Class I landfill), the potential for off-gassing of VOCs from the ground water to underlying soil gas is considered to be low. Therefore, ENVIRON has no further recommendations for further evaluation of VOCs in ground water underlying or in proximity to Parcel B. Similarly, based on information provided by Ayres, no evidence of the presence of VOCs at Parcel A has been identified.

- Appropriate Technologies II, Inc. (APTEC; approximately 600 feet east of Parcel B and 1,200 feet south of Parcel A) is listed on the "Unconfirmed Properties Referred to Another Agency" (REF) data base as reported by Environmental Data Resources, Inc. (EDR). This data base contains sites at which contamination has not been confirmed and which were determined as not requiring direct Department of Toxic Substances Control (DTSC) Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency. Based on the EDR data base listing, the lead agency for APTEC was turned over from the DTSC to the Environmental Protection Agency (EPA) in 1983 as part of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) screening and assessment activities conducted in 1996. According to the REF data base listing, APTEC was a transfer station for non-hazardous and hazardous liquid sludge and slurry wastes in bulk and hazardous liquid/solid wastes in drums or other approved containers. Waste specifically not accepted at the APTEC facility included polychlorinated biphenyls (PCBs), explosives, and radioactive materials. The listing also indicates that the APTEC

facility was completely surrounded by the Otay Landfill and classified as a hazardous storage and transfer facility zoned for "open space" and park development. Most significantly, the EDR data base listing indicates that there was "no disposal on-site" and that the APTEC facility was solely a temporary storage facility. According to site inspection notes (contained in the data base listing), the facility was "well-run," with "good storage" and housekeeping practices, good security, and "no identified problems." Lastly, no significant objections were noted during public hearing activities during the final DTSC "No Further Action" ruling in 1996 for the APTEC facility. Because this facility was a temporary storage facility and was granted a NFRAP status by the DTSC, it is unlikely that former operations at the APTEC site have adversely impacted the Property.

2.0 INTRODUCTION

2.1 Purpose

ENVIRON was retained by The City of Chula Vista to conduct an ESA of the Property located in Chula Vista, San Diego County, California. ENVIRON's assessment was conducted in connection with Sunbow's and Ayres' proposed zoning change and development of the Property as a residential community. This ESA is being completed in connection with a Human Health Risk Assessment to evaluate the potential human health risks associated with the former Hazardous Waste transfer station, the former Class I landfill, and the current Class III Otay Landfill operations located to the east and south of the Property. The purpose of the assessment was to identify potential RECs and HRECs. The term "REC" is defined by ASTM as:

> "The presence or likely presence of any hazardous substances or petroleum products on a site under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products in structures on the site or into the ground, ground water, or surface water of the site. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not represent a material risk of harm to public health and environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies."

The term HREC is based on the definition in ASTM E1527-00 and refers to an environmental condition that in the past would have been considered a REC, but has been satisfactorily remediated or addressed in such a manner that it is not considered to be a current REC.

For the purposes of this assignment, "non-scope considerations," as defined in the ASTM standard (i.e., asbestos-containing materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and high voltage power lines), were not addressed, except as noted in Section 2.5 of this report.

2.2 Scope of the Assessment

ENVIRON undertook the following tasks, consistent with the ASTM E1527-00 standard, to complete the assessment of the Property:

- An unescorted visit to the Property by Kristin Thomas of ENVIRON on February 10, 2005, to observe and evaluate visible Property conditions (see Appendix A for photographs).

- A telephone interview with Mr. Paul Lazano and Mr. Jim Ambroso for Otay Landfill, Inc., on April 7, 2005.

- A telephone interview with Mr. Sam Holty of Ayres on February 28, 2005.

- A review the report titled, "*Limited Soil-Gas, Soil, and Ground water Sampling Report for Rancho Del Sur Phase II, San Diego, California*", dated June 3, 1994, prepared by Geocon Environmental Consultants (Geocon) and provided to ENVIRON by Ayres.

- A review of the report titled, *Final Closure and Postclosure Maintenance Plan, Otay Class I Landfill*, prepared by URS Greiner Woodward Clyde (the "URS Report"), dated March 24, 2000.

- A review of the report titled, *Water Quality Monitoring Report, Semiannual (April 2004 through September 2004) Report, Otay Landfill*, prepared by GeoLogics Associates (the GeoLogics Report), dated October 2004.

- Historical fire insurance maps covering the Property and vicinity were requested but, according to EDR's response (received February 4, 2005), fire insurance map coverage was not available.

- A review of aerial photographs for the Property and surrounding area, dated 1953, 1963, 1974, 1990, 1994, and 2002, (as shown in Appendix B.1) provided by EDR.

- A review of available historical topographic maps for the Property and vicinity, dated 1930, 1967 (photorevised 1975), and 1996, (as shown in Appendix B.2) provided by EDR.

- A review of city directory abstract information, for select years between 1970 and 2004, (as shown in Appendix B.3) provided by EDR.

- A review of information pertaining to the topography, geology, and hydrogeology of the area, provided in EDR's GeoCheck Physical Setting Source Addendum.

- A review of readily available records for the adjacent landfill facility from the San Diego Department of Environmental Health (SDCDEH) on April 5, 2005.

- A request for records available for the Otay Landfill from landfill division of the County of San Diego.

- A review of the United States Geological Survey (USGS) Imperial Beach, California 7.5 min quadrangle index.

- A review of the search of environmental regulatory agency data base records conducted by EDR, dated February 4, 2005, for the Property and off-site addresses in the vicinity of the Property. A copy of the EDR report is included as Appendix C. EDR conducted searches of federal data bases including: National Priorities List (NPL); Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS); Emergency Response Notification System (ERNS); Corrective Action Report (CORRACTS); and Resource Conservation and Recovery Information System (RCRIS). State data bases included: Active Annual Workplan Sites; Cal Sites data base; California Hazardous Materials Incident Report System (CHMIRS); Cortese; and Leaking Underground Storage Tank (LUST) Information System; Solid Waste Information System; Proposition 65; Toxic Pits; Underground Storage Tank (UST) data base; and Facility Inventory data base (FINDS).

  Because the environmental data bases themselves are sometimes not updated by the specific regulatory agencies for a period of up to one year or more (depending on the data base and the agency), the data base search conducted herein will not necessarily list any Property recently identified as having, or which are suspected of having, environmental problems and/or for which an environmental investigation/ listing has been initiated, or reflect the current status of activities at a particular Property, subsequent to the last update of a given list. The dates of the most recent updates for the aforementioned environmental data bases are listed in the data base report in Appendix C.

2.3 Significant Assumptions

The findings presented in this report represent ENVIRON's professional judgment based on the information available to us during the course of this assignment and are true and correct to the best of ENVIRON's knowledge as of the date of the review. ENVIRON made reasonable efforts to verify the written and oral information provided in this review. Nevertheless, this report is accurate and complete only to the extent that information provided to ENVIRON was itself accurate and complete. However, ENVIRON has found no reason to question the information received.

ENVIRON's work was performed in accordance with generally accepted engineering standards. It is ENVIRON's specific intent that the conclusions and recommendations presented herein be used as guidance and not necessarily as a firm course of action unless explicitly stated as such.

2.4 Exceptions to/Deletions from ASTM Practice E1527-00

ENVIRON made no exceptions to, or deletions from, ASTM Practice E1527-00 during this assessment, except as follows:

- Resumes from personnel conducting the assessment are not included in the report, but will be provided upon request.

- Due to the size of the Property, access limitations, weather conditions at the time of the site visit, and other safety concerns, ENVIRON did not walk the entire area of Property.

- Because the Property does not have a legal address, building department records were not searchable.

2.5 Special Terms and Conditions

This ESA was conducted in accordance with ASTM Practice E1527-00, as agreed upon by ENVIRON, and The City of Chula Vista in January 2005.

2.6 User Reliance

This ESA report has been prepared exclusively for use by The City of Chula Vista and may not be relied upon by any other person or entity without ENVIRON's express written permission.

3.0 PROPERTY DESCRIPTION

3.1 Location and Legal Description

The Property consists of two, undeveloped parcels of land, herein referred to as Parcel A and Parcel B. The location of the Property (Township 18 South, Range 1 West, Section 18 and 17) is shown on the United States Geological Survey (USGS) topographic map for the Imperial Beach, California quadrangle, as depicted in Figure 1. Parcel A consists of approximately 50 acres and is situated on portions of two parcels, parcel 644-011-06 on the western half and parcel 644-011-11 on the eastern half. Parcel B is consists of an approximately 80-acre portion of a larger, 212-acre parcel (Assessor's Parcel Number: 644-020-07); however Parcel B not a legal parcel in and of itself.

3.2 Property and Vicinity General Characteristics

Parcel A currently is owned by Sunbow and is located in a predominantly residential area of the City of Chula Vista. Parcel A consists of an irregularly shaped parcel of undeveloped land that abuts the northern boundary of the Otay Landfill and Parcel B. It is bounded to the north by an open space preserve, which runs along the southern side of Olympic Parkway. Across from Olympic Parkway is a single-family residential community. Undeveloped land borders Parcel A to the east and west.

Parcel B is currently owned by San Diego Landfill Systems and consists of an approximately 80-acre rectangular parcel of land, located on the western section of the Otay Landfill area. It is bounded to the north by Parcel A and undeveloped land, the Otay Landfill to the east, a residential community to the west, and undeveloped land to the south. According to Mr. Holty of Ayres, an approximate five-acre parcel of land, located at the northwest corner of Parcel B (Assessor's Parcel Number: 644-020-08), is owned by the Otay Water District and is not considered a part of the Property.

Parcels A and B lie at an elevation ranging from approximately 300 to 435 feet above mean sea level (USGS; Imperial Beach, California 7.5 min quadrangle index). General topography at the Property is moderately hilly and slopes downward to the south.

In the evaluation of the potential for environmental problems from other sources to impact the Property, one must consider the possibility that ground water could transport contamination from sites in the vicinity to the Property. Therefore, the depth and flow direction of ground water are important. In order to evaluate the possibility of migration of contaminants from other sites onto the Property, this section presents a discussion regarding the geological and hydrogeological setting of the Property.

Based on the report titled, "*Limited Soil-Gas, Soil, and Ground water Sampling Report for Rancho Del Sur Phase II, San Diego, California*", dated June 3, 1994, prepared by Geocon, surficial lithology in the vicinity of the Property is classified as being within the Tertiary-aged Otay Formation. The Otay Formation is described as light-gray and light brown, moderately well-sorted, poorly indurated, massive sandstone and claystone. Soil conditions encountered in the vicinity of the Property during Geocon's investigation consisted of the Otay Formation from the ground surface to an approximate depth of 228 feet bgs. The Otay Formation consists primarily of medium dense to dense, silty, fine to medium, and coarse sandstone, with some clay. A stiff to hard bentonite layer was encountered between depths of approximately 90 and 100 feet below ground surface (bgs). The lower portion of the Otay Formation is silty to clayey, fine to course sand with gravel.

The Property is located within the Otay Valley Hydrologic Area, which is designated as having existing beneficial uses of ground water for municipal, agricultural, and industrial purposes. Based on data obtained from EDR's GeoCheck™ Physical Setting Source Summary, depth to first ground water has been measured between 110 to 180 feet bgs (measured between one-quarter to one-half mile south-southeast of the Property) with an inferred hydrogeologic gradient to the west, towards San Diego Bay. Geocon encountered two water-bearing zones in the vicinity of the Property during its 1994 investigation. Perched, shallow ground water was encountered at approximately 167 feet bgs and a second, unconfined ground water-bearing zone, was encountered at approximately 278 feet bgs.

Based on the EDR GeoCheck® Report, there are no federal public water wells within a ½-mile radius of the Property. In addition, EDR does not report the Property within the 100- or 500-year floodplain.

3.3 Current Use of Property

Parcel A has been undeveloped since as early as 1953 (based on ENVIRON's review of historical aerial photographs). Parcel B is undeveloped and is located within the boundaries of the Otay Landfill; however, it is not permitted for landfilling activities, nor has it historically been used for landfilling activities.

3.4 Description of Structures, Roads, and Other Improvements

The Property consists of two parcels of undeveloped land. The northern parcel (Parcel A) consists of approximately 50 acres, and the southern parcel (Parcel B) consists of approximately 80 acres. Based on ENVIRON's observations of the Property at the time of the site visit and information provided by Mr. Holty, no utilities are or historically have been provided to the Property and no structures currently are present at the Property.

3.5 Current Use of Adjoining Properties

The area in the nearby vicinity of the Property consists predominantly of residential developments. The Otay Landfill borders Parcel A to the south and Parcel B consists of the western portion of the Otay Landfill area. The Otay Landfill is a Class III municipal solid waste landfill comprising approximately 464 acres, of which approximately 230 acres are currently permitted for landfilling. The landfill is permitted for disposal of non-hazardous waste, which includes residential and commercial municipal solid waste, inert solid waste, and industrial waste.

4.0 USER PROVIDED INFORMATION

The "users" of the Phase I ESA (i.e., The City of Chula Vista) are tasked with providing certain information as part of the Phase I ESA process that is outside ENVIRON's scope of work, but is included as part of the ASTM standard. Specifically, the users should provide, if available, the following information or documentation:

- Title records for environmental liens or activity and use limitations on the Property.
- Reasonably ascertainable sources of information for evidence of environmental liens or activity and use limitations on the Property.
- Specialized knowledge or experience regarding the Property.
- Owner and occupant information.
- The purpose for performing the Phase I ESA.

A summary of the information relating to these user tasks provided to ENVIRON is provided below.

4.1 Title Records and Environmental Liens

A review of title records and other reasonably ascertainable information to identify environmental liens or activity and use limitations associated with the Property was not included within ENVIRON's scope for this ESA; however, ENVIRON did not identify and was not provided any information that would indicate that there are any environmental liens associated with the Property.

4.2 Specialized Knowledge

With the exception of the presence of the Otay Landfill (and former Class I hazardous waste transfer station and former Class I landfill) located east and south of the Property, no additional specialized knowledge or experience that is material to RECs at the Property was provided to ENVIRON by Ayres or the City of Chula Vista as part of this ESA.

4.3 Owner and Occupant Information

Parcel A currently is owned by Sunbow and is undeveloped and unoccupied. Parcel B is owned by the San Diego Landfill System and is also undeveloped and unoccupied.

4.4 Reason for Performing the Phase I

It is ENVIRON's understanding that The City of Chula Vista are conducting this assessment in connection with the proposed re-zoning and development of the Property for residential use. This ESA is being completed in connection with a Human Health Risk Assessment to evaluate the potential human health risks associated with the former Class I Hazardous Waste transfer station and the presence of the current Otay Landfill. ENVIRON assumes that the ESA is being conducted to identify potential environmental conditions associated with the Property could materially affect the development, pose potential human health risks, or the value of the Property.

5.0 RECORDS REVIEW

5.1 Environmental Regulatory Data Base Review

To assess the potential for soil and/or ground water contamination at the Property due to on- and off-site sources, ENVIRON conducted a review of a federal and state regulatory agency data base search report prepared by EDR and requested readily available files from local environmental regulatory agency files for the Property.

ENVIRON contracted with EDR to conduct a search of federal and state regulatory agency data bases to identify listings for the Property and nearby sites in the vicinity of the Property. EDR conducted the environmental regulatory agency data base search in accordance with the search radii recommended by the ASTM standard. The EDR report is presented in Appendix C. The Property is not listed on the data bases searched by EDR.

In this section, only facilities that were listed on data bases of environmentally impaired sites, and that are located in the immediate vicinity of the Property or are located upgradient (but are not necessarily located near the Property) are discussed. These facilities were selected based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within the unsaturated soil for a significant distance, but a hazardous material can migrate in the ground water in a generally downgradient direction. However, there are limitations to this interpretation (e.g., ground water gradient where a steep gradient may allow further downgradient migration, a flat gradient may allow spreading both up and downgradient, type of hazardous material released where miscible material may migrate further, and other geologic and hydrogeologic conditions). Based on the most recent ground water monitoring data (GeoLogic, 2004) for the adjacent land landfill, ground water flow direction is from the east-northeast to west-southwest in the vicinity of the Property.

- The Otay Landfill, located immediately adjacent to Parcel A to the south and containing Parcel B (as its western half) is listed on the following data bases:

  - Solid Waste Facility/Landfill (SWF/LF) - The data base listing, as reported by EDR, indicates that wastes accepted at this landfill consist of agricultural, construction/demolition, green materials, mixed, municipal, other designated, sludge (biosolids), and tires. The listing indicated that the owner and operator of this 464-acre solid waste landfill is Allied Waste Industries, Inc. The permitted throughput of this facility is reported as 5,000 tons per day with a total capacity of approximately

59,857,199 cubic yards. No additional pertinent information was available in EDR's data base SWF/LF listing for this facility. A listing on this data base is not, in and of itself, indicative of environmental impact at the site.

- Resource Conservation and Recovery Act Information (RCRAInfo) - The landfill is listed on this data base as a small quantity generator (SQG; generating between 100 and 1,000 kilograms of hazardous waste per month) with no reported violations. 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. No additional pertinent information was available in EDR's RCRA-SQG data base listing for the Otay Landfill facility. A listing on the RCRAInfo data base is not, in and of itself, indicative of environmental impact at the site.

- Hazardous Materials Information System (HAZNET) data base - The HAZNET data base is extracted from the copies of hazardous waste manifests received each year by the California Department of Toxic Substances Control (DTSC) and is not indicative of environmental impairment at the site. According to the EDR data base report, the HAZNET data base was last updated on December 31, 2002. The Otay Landfill is listed for manifests generated as a result of the off-site disposal of the following categories (and total approximate quantities) of hazardous wastes[2]:

  - Aqueous solutions (with ten percent or more organic residues) – 1.95 tons
  - Waste oil and mixed oil – 1.75 tons
  - Unspecified sludge waste – 0.3961 tons
  - Household wastes – 9.6 tons
  - Off-specification, aged, or surplus organics – 0.49 tons
  - Liquids with a pH less than 2 – amount not listed
  - Unspecified oil-containing waste – 0.6255 tons
  - Other organic solids – 0.10 tons

- San Diego County Hazardous Materials Management Division (HMMD) data base - The landfill is listed for its registration as a permitted landfill with the County of San

[2] Specific dates of generation are not included in the HAZNET data base listing information.

Diego. The listing includes such information as emergency and owner and operator contact information and is not an indication of environmental impact at the site.

- APTEC (also listed at 1700 Maxwell Road) is listed on the following data bases:

  - RCRA – This facility is listed as a large quantity generator (LQG; generating over 1,000 kilograms of hazardous waste, or over one kilogram of acutely hazardous waste per month). This facility was formerly a Class I hazardous waste transfer station, located within the boundaries of the Otay Landfill (located south of Parcel A and east of Parcel B). The RCRA-LQG data base was last updated in November of 2004.

  - Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) - The CERCLIS data base contains data on potentially hazardous waste sites that have been reported to the United States Environmental Protection Agency (USEPA) by states, municipalities, private companies, and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLIS data base contains sites, which are either proposed to or on the National Priorities List (NPL) and sites that are in the screening and assessment phase for possible inclusion on the NPL. The CERCLIS data base was last updated in August of 2004. Based on the EDR data base report listing, APTEC is listed on the CERCLIS data base as having been initiated to the screening and assessment phase (i.e., "discovery phase") in August of 1980, with a Preliminary Assessment conducted in November of 1987. The data base listing indicates that a RCRA Facility Assessment and Site Inspection were conducted in September of 1989. Finally, based on this EDR listing, the case was subsequently archived in January of 1996 and put on the "No Further Remedial Action Planned" (NFRAP) list. Because this facility was a temporary storage facility and was granted a NFRAP status by the DTSC, it is unlikely that former operations at the APTEC site have adversely impacted the Property.

  - RCRAInfo - This facility is listed as a waste Transfer, Storage, or Disposal Facility (TSDF). This data base includes selective information on sites, which generate, transport, store, treat and/or dispose of hazardous waste as defined by RCRA. Transporters are individuals or entities that move hazardous waste from the generator to an off-site facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste. The listing includes such information as owner contact

information and EPA identification number (CAT080010101) and is not indicative of environmental impact at the site. The RCRAInfo-TSDF data base was last updated in November of 2004.

- Corrective Action Report (CORRACTS) - The CORRACTS data base identifies hazardous waste handlers with RCRA corrective action activity and was last updated in September of 2004. Thirty-six violations for this facility are listed in the EDR data base report dated August of 1988 through December of 1995. According to the listing all of the violations achieved compliance before the facility was closed and that APTEC was issued a monetary penalty of $10,000 in April of 1994. No additional pertinent information was available in EDR's data base listing regarding this facility.

- REF - This data base contains sites where contamination has not been confirmed and which were determined as not requiring direct DTSC Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency. According to the EDR data base listing, the lead agency for APTEC was turned over from the DTSC to the EPA in 1983 as part of the CERCLA screening and assessment activities conducted in 1996, as discussed above. According to the REF data base listing, APTEC was a transfer station for non-hazardous and hazardous liquid sludge and slurry wastes in bulk and hazardous liquid/solid wastes in drums or other approved containers. Waste specifically not accepted at the APTEC facility included PCBs, explosives, and radioactive materials. The listing also indicates that the APTEC facility was completely surrounded by the Otay Landfill and classified as a hazardous storage and transfer facility zoned for "open space" and park development. Most significantly, the EDR data base listing indicates that there was "no disposal on-site" and that the APTEC facility was solely a temporary storage facility. According to site inspection notes (contained in the data base listing), the facility was "well-run," with "good storage" and housekeeping practices, good security, and "no identified problems." Lastly, no significant objections were noted during public hearing activities during the final DTSC "No Further Action" ruling in 1996 for the APTEC facility. Because this facility was a temporary storage facility and was granted a NFRAP status by the DTSC, it is unlikely that former operations at the APTEC site have adversely impacted the Property.

In conclusion, because this facility was a temporary storage facility and was granted a NFRAP status by the DTSC, it is unlikely that former operations at the APTEC site have adversely impacted the Property.

The EDR report indicates that poor or inadequate address information was identified for several sites located in the vicinity of the Property; therefore, these sites could not be mapped by EDR. Because the location of these sites with respect to the Property could not be evaluated, ENVIRON is limited in its ability to express an opinion regarding the potential for impact to the Property from these sites. Nevertheless, ENVIRON reviewed the list of unmappable sites and did not identify listings for any sites located adjacent to the Property.

5.2 Historical Use Information on the Property and Surrounding Area

To evaluate the historical uses of the Property, ENVIRON interviewed Mr. Samuel Holty, Vice President of Ayres, reviewed selected documents for the Property provided by Ayres, reviewed historical aerial photographs, historical topographic maps, and information obtained from city directory abstracts. The results of ENVIRON's historical review are presented below.

5.2.1 Historical Operations Interview

ENVIRON interviewed Mr. Samuel Holty regarding the historical uses of the Property. Mr. Holty has been familiar with Parcel A since it was purchased from RDR, LP (a partnership representing the Kruer Family) by Ayres in 1996 and familiar with Parcel B since approximately 2000. According to Mr. Holty, Parcel B has been owned by the San Diego Landfill System (d.b.a. Allied Waste, Inc.) or other entities directly associated with the landfill as far back as he could recall, and was unaware of previous ownership. Mr. Holty reported that to the best of his knowledge, there have been no utilities or structures present at either parcel and that no known chemicals and/or wastes have historically or are presently stored, treated, processed, handled, used, or generated at either parcel of the Property and that both parcels consist of unimproved land. According to information provided by Mr. Holty, there are no environmental liens encumbering the Property. With the exception of the current re-zoning application that has been submitted to the City of Chula Vista, no other environmental litigation or administration proceedings are currently ongoing or pending pertaining to the Property.

In addition, ENVIRON conducted a telephone interview with Mr. Jim Ambroso and Mr. Paul Lozano of Allied Waste, Inc. (owner and operator of the Otay Landfill) on April 6, 2005. Mr. Ambroso has been familiar with the landfill site since 1997 and Mr. Lozano had been familiar with the landfill since 1972. According to Messrs. Ambroso and Lozano, Parcels A and B have been undeveloped for as long as they have been familiar with the landfill and

surrounding areas. According to Mr. Lozano, portions of Parcel B were used as backfill during closure operations for the former Class I landfill located at the landfill area east of Parcel B. Mr. Lozano reported that to the best of his knowledge, no other activities or operations currently of historically have been conducted on Parcel B.

5.2.2 Aerial Photographs

Historical aerial photographs of the Property and surrounding area dated 1953, 1963, 1974, 1990, 1994, and 2002, were provided by EDR. A summary of ENVIRON's observations regarding the historical aerial photographs is presented below.

- The aerial photograph dated 1953 depicts the Property as predominantly undeveloped, with the exception of several unimproved dirt paths and/or roads traversing Parcel B. Centrally located on Parcel B, is a small collection of surface features (possibly indicative of a single-family residential dwelling). However, due to the poor quality of the photographic reproduction, additional details regarding these features are not clearly discernable. In addition, an irregularly shaped area of disturbed land is depicted near the eastern boundary of Parcel B. Based on the shadows cast at the time this photograph was taken, it appears that these areas are depressions in the natural topography, where the natural vegetation also has been removed. Based on the knowledge that Parcel B is part of the Otay Landfill, it is possible that these disturbed areas are evidence of activities pertaining to or related to the adjacent landfilling operations (i.e., potentially excavated for soil to be used as ground cover). Again, due to the poor quality of the photographic reproduction, the specific nature of land use in this area of Parcel B cannot be positively identified.

  With the exception of surface features (possibly indicative of grading and/or clearing activities) visible to the east of the Parcel B, both parcels are surrounded by vacant land. An industrial facility is visible approximately 500 feet to the south of the southern border of Parcel B. The area of the Property is depicted as a hilly. With the exception of the aforementioned disturbed areas and unimproved paths/road depicted at Parcel B, the remainder of the Property is covered with low-lying vegetation and trees.

- The aerial photograph dated 1963 depicts the Property as predominantly undeveloped, again with the exception of several unimproved dirt paths and/or roads traversing Parcel B. A small portion of land, close to or at the eastern boundary of Parcel B is

depicted with a series of dark-colored, rectangular shapes (immediately north of the disturbed areas previously identified on the 1953 aerial photograph). These features possibly are indicative of agricultural land use; however, based on the nature of activities (i.e., landfilling) in the adjacent areas, is more likely that these areas have been designated or partitioned (possibly related to the adjacent landfilling operations). Again, due to the poor quality of this photographic reproduction, the specific nature of land use in this area cannot be positively identified.

The small collection of surface features observed on the previous photograph is not visible on the 1963 photograph; however, several smaller features are visible in the general area (not necessarily indicative of structures). Again, due to the poor quality of this photographic reproduction, the specific nature of land use in this area cannot be positively identified.

The disturbed areas identified near the eastern border of Parcel B on the 1953 aerial photograph are visible on the 1963 aerial photograph; however, they appear to have changed in slightly in shape and color. The area still appears to be a depression in the natural topography of the Property, and may be related to the adjacent landfilling operations.

The industrial facility identified 500 feet south of the southern border of Parcel B is visible on the 1963 aerial photograph. It appears to have expanded and included surface features characteristic of setting, percolation, evaporation, and/or aeration ponds for industrial use. Based upon supporting information available in the EDR data base report, this facility is the Omar Rendering Disposal Site. This facility is located topographically and hydrogeologically downgradient from the Property. However the Omar Rendering Disposal Site consists of approximately 40 acres of a former hazardous waste disposal facility that operated from 1959 through 1978 and utilized evaporations ponds for disposal. These ponds were excavated upon closure of the site and the residues were placed in a containment cell at the northwest of the site. Based on information provided by representatives of the City of Chula Vista, the containment cell is monitored by the RWQCB. Based on the fact that this former facility is located topographically and hydrogeologically downgradient from the Property, adverse environmental impact to the Property as a result of former operations at this facility is considered to be low.

- The aerial photograph dated 1974 depicts the Property as predominantly undeveloped. The number of unimproved paths/roads traversing Parcel B appears to have increased since the previous aerial photograph dated 1963. In the area of the previously observed, centrally located collection of surface features, two surface features are depicted (possibly structures), with paths/roads leading to it from the main access roads depicted in the area.

  The disturbed areas identified near the eastern border of Parcel B on the previous aerial photographs are visible on the 1974 aerial photograph; however, they appear to have changed again in shape and color. The area still appears to be a slight depression in the natural topography of the Property.

  Two dark colored, rectangular shaped surface features are visible approximately 1,200 feet east of Parcel B and approximately 600 feet south of Parcel A, that are characteristic of liquid settling ponds. The cleared area of the landfill operations to the east and south of the Property appears to have been expanded since the previous aerial photographs.

- The aerial photograph dated 1990 depicts the Property as predominantly undeveloped. A residential development is observed immediately adjacent to the western boundary of Parcel B. Evidence of the Omar Rendering Disposal Site is not visible on the 1990 aerial photograph. The site of the former disposal facility is depicted as undeveloped with a single, paved access road. Adjacent to the former Omar Rendering Disposal Site and south of Parcel B, is an industrial park and the present-day San Diego Department of Public Works campus.

  In the central area, the two surface features observed on the previous aerial photograph are not visible on the 1990 aerial photograph.

  The disturbed areas identified near the eastern border of Parcel B on the previous aerial photographs are visible on the 1990 aerial photograph; however, they appear to have changed slightly in shape and color. This area still appears to consist of a slight depression in the natural topography of the Property.

  The two dark colored, rectangular shaped surface features (characteristic of settling ponds, depicted on the adjacent landfill area) are not visible on the 1990 aerial

photograph. These former features appear to have been backfilled or covered and are covered with sparse, low-lying vegetation.

Visible approximately 500 feet east of Parcel B and approximately 1,000 feet south of Parcel A is a small industrial facility, primarily consisting of several small buildings and a large exterior storage yard. The storage yard appears to be occupied with various sized containers. Based on ENVIRON's review of the EDR data base report, this facility is most likely the APTEC facility (a former non-hazardous and hazardous transfer station). This facility appears to consist of between eight and ten acres of land.

The industrial development to the south of Parcel B appears to have increased since the previous aerial photographs.

- The aerial photograph dated 1994 depicts the Property as undeveloped. The disturbed areas identified near the eastern border of Parcel B on the previous aerial photographs are visible on the 1994 aerial photograph; however, they appear to have changed slightly in shape and color. This area still appears to consist of a slight depression in the natural topography of the Property. A tall, skinny surface feature (as evident by shadows) is present near the north end of this disturbed area. This surface feature could possibly be a storage vessel or structure; however, due to the poor quality of this photographic reproduction, the identity of this feature cannot be confirmed.

  The APTEC facility is visible on the 1994 aerial photograph.

- The aerial photograph dated 2002 depicts the Property as undeveloped. The disturbed areas identified near the eastern border of Parcel B on the previous aerial photographs are visible on the 2002 aerial photograph; however, they appear to have changed again in shape and color. The tall, skinny surface feature observed on the previous aerial photograph is not visible on the 2002 aerial photograph. The area of the APTEC facility is visible on the 2002 aerial photograph; however, land use at the facility appears to have changed since the previous aerial photograph. The storage yard appears to have been replaced by scattered trees, several unimproved access roads, and various surface features that due to the poor quality of the photographic reproduction, the identity of which cannot be confirmed.

5.2.3 Building Department Records

Because the Property does not have a legal address, building department permits could not be searched.

5.2.4 City Directory Abstracts

Because Parcel A of the Property does not have a legal address, ENVIRON used the address of the Otay Landfill and former APTEC facility (1700 Maxwell Road) for EDR's city directory abstract search. No addresses are listed on Maxwell Road from 1970 through 1995. The 1700 Maxwell Road address first appears in the 1995 Haines Criss-Cross Directory as Otay Landfill and again in 2000 and 2004, along with American Transit Corp (at 1800 Maxwell Road). No other neighboring addresses were listed in the city directory abstract information provided by EDR.

5.2.5 Historical Topographic Maps

ENVIRON reviewed historical topographic maps obtained for the Property and vicinity from EDR, dated 1930, 1967 (photorevised 1975), and 1996. All four maps depict the Property and immediately surrounding areas as undeveloped. With the exception of the unimproved roads, no additional details regarding land use or specific surface features are depicted. The evaporations ponds of the former Omar Rendering Disposal Site are depicted on the 1967 and 1975 maps. The Otay Landfill is depicted on the 1975 and 1996 map. The residential development abutting the western boundary of Parcel B is depicted on the 1996 map. No additional information pertaining to potential on or off-site contamination sources were depicted on the historical topographic maps.

5.2.6 Sanborn Fire Insurance Maps

Historical fire insurance maps covering the Property and vicinity were requested but, according to EDR's response (received February 4, 2005), fire insurance map coverage was not available for the Property and vicinity.

5.2.7 Summary of Previous Reports

ENVIRON reviewed the report titled, *Limited Soil-Gas, Soil, and Groundwater Sampling Report*, prepared by Geocon on June 3, 1994. The scope of Geocon's work involved four tasks, limited vadose moisture monitoring, limited soil gas monitoring, temporary monitoring well installation, and limited ground water sampling of a site located adjacent to the north of the Otay Landfill. Results of vadose zone monitoring did not encounter water in any

of the wells sampled. Detectable concentrations (>1,000 parts per million [ppm]) of methane were identified in Well G6-G (located at the northern boundary of the landfill area) at 35 feet bgs. Maximum concentrations of methane were detected in soil gas samples as high as 3,300 ppm. Analytical results for soil samples collected from two exploratory borings located exhibited lead and copper concentrations as high as 29.1 milligrams per kilogram (mg/kg) and 28.4 mg/kg respectively. Concentrations of halogenated VOCs greater than laboratory detection limits were not exhibited.

Analytical results indicate concentrations of VOC below laboratory detection levels in ground water sampler collected from wells located along the northern boundary of the landfill area. In additions, no concentrations of Title 22 metals were detected in ground water samples above the Maximum Contaminant Levels (MCLs) for the State of California primary drinking water standards.

5.2.8 Historical Summary

Based on ENVIRON's review of the historical information sources described above, the Property has been predominantly undeveloped since as early as 1953 (based on ENVIRON's review of historical aerial photographs).

5.3 Local Agency Record Review

ENVIRON submitted a request to review all readily available public records pertaining to the current Otay Landfill and former Class I hazardous waste transfer facility located at the Property from the San Diego HMMD on February 3, 2005. Subsequently, ENVIRON reviewed the requested documents at the HMMD on April 5, 2005. The following is a summary of ENVIRON's HMMD file review.

ENVIRON reviewed readily available records for the site located at 1700 Maxwell Road, Chula Vista, California dated February 1994 to February 2004. The records consisted of the following documents:

- Compliance Inspection Reports
- Unified Program Facility Reports
- San Diego Regional Hazardous Materials Questionnaires
- Hazardous Materials Business Plans (HMBP)
- Health Permit Applications, a Monitoring Well and Boring Construction and Destruction Permits
- Maintenance of Monitoring Well Certifications

According to information contained in the reviewed records, the Otay Landfill operates a 1,500-gallon diesel fuel aboveground storage tank (AST; installed in 1999) and a 250-gallon propane AST to fuel on-site vehicles (based on a Compliance Inspection Report dated March 4, 2004). No violations were noted regarding the operation of this AST. In addition, according to the most recent Unified Program Facility Report contained in the files (dated November 3, 2003), the Otay Landfill listed acetylene, diesel fuel, ethylene glycol (anti-freeze), compressed oxygen gas, and Stoddard Solvent used in its operations. Hazardous wastes generated at the facility include waste oil and mixed oil, waste organic liquids, waste laboratory chemicals, and used oil filters. According to the Unified Program Facility Report, these wastes are transported off-site by Asbury Environmental Services to an approved disposal, transfer, or recycling facility. No significant environmental concerns were identified by the HMMD between 1994 and 2004 regarding Otay Landfill's hazardous waste disposal practices.

According to a San Diego Regional Hazardous Materials Questionnaire completed by San Diego Landfill Systems (dated February 12, 2001), a permitted methane gas flare station is operated at the Otay Landfill.

Based on ENVIRON's review of the aforementioned records, no obvious evidence of activities and/or practices conducted at the Otay Landfill that pose an environmental threat relative to the Property (specifically related to RECs or suspect RECs) were noted. With the exception of several administrative violations, no other significant environmental concerns were identified pertaining to the Otay Landfill between 1994 and 2004.

The records obtained from the HMMD indicates that various ground water monitoring wells are located throughout and downgradient of the landfill. Based on a Monitoring Well and Boring Construction and Destruction Permit (dated February 3, 1999), six borings were permitted at the landfill by Burns & McDonnell Waste Consultants, Inc. and Tri-County Drilling, Inc. in order to evaluate the presence of perched ground water and the lateral extent and physical properties of the perched zone. An additional four ground water monitoring wells were permitted for installation in September of 1998 by Golder Associates and Layne Christensen Company in order to provide ground water flow direction data for the intermediate aquifer and facilitate future water quality monitoring.

In addition, ENVIRON conducted a review of available documentation pertaining to the Otay Landfill that is maintained by the San Diego County Department of Environmental Health, including the following documents:

- *Final Closure and Postclosure Maintenance Plan, Otay Class I Landfill*, prepared by URS Greiner Woodward Clyde (the "URS Report"), dated March 24, 2000.

- *Water Quality Monitoring Report, Semiannual (April 2004 through September 2004) Report, Otay Landfill*, prepared by GeoLogics Associates (the GeoLogics Report), dated October 2004.

According to the URS Report, a Class I Landfill formerly was operated in the vicinity of the Property (approximately 800 feet of the eastern boundary of Parcel B and approximately 500 feet from the south of Parcel A) beginning in 1963. The Otay Class III Landfill surrounds the former Class I Landfill. The Class I portion of the landfill occupied approximately 21 acres on the 47-acre County landfill site. According to the URS report, approximately 17 million gallons of liquid hazardous wastes were disposed of in this unlined landfill from 1963 through October 1980. Wastes accepted at this Class I landfill included, but was not limited to, oil and oil/water mixtures; paint and paint sludges; chemical fertilizers; chemical toilet wastes; drilling muds; brines; corrosive pickling liquors; corrosive acids and alkalines; plating wastes; acid wastes; and acid enchants. Based on historic information, approximately 100,000 cubic yards of hazardous solid waste was also disposed at this facility, including, but not limited to, asbestos, oil spill booms, debris, was, and paint.

In November of 1980, the County Board of Supervisors directed that the disposal of hazardous wastes be discontinued at the Otay Class I Landfill. Subsequently, a portion of the Otay Landfill site was leased for the establishment of a privately operated industrial waste transfer station (APTEC, discussed in Section 5.1) to provide an alternate service for local generators of hazardous waste material. The transfer station was closed in 1997.

In October 1997 the RWQCB issued Addendum No. 1 for Order 77-44 to separate the inactive Class I Landfill from active Class III facility. This addendum was a result of the ownership, transfer of Otay Class III Landfill from the County of San Diego to a private entity. Concurrently, the site was de-annexed from the City of Chula Vista in 1997. The County of San Diego presently owns the Class I Landfill. The facility has been inactive since 1980 and the County does not intend to operate it in the future. The neighboring Class III portion of the Otay Landfill currently is owned and operated by San Diego Landfill Systems, a division of Allied Waste Industries.

There is a network of 18 landfill gas (LFG) monitoring probes located around the Otay Landfill (Class I and III) boundary to monitor for LFG that may be migrating off the landfill area. In addition to the current LFG probes, ground water monitoring wells have also been installed, located along the periphery of the landfill area, including three near the southwestern boundary of the Class I waste disposal area (near the eastern boundary of Parcel B).

Based on the most recent groundwater sampling data (contained in the GeoLogic Report) provided by the San Diego County Department of Environmental Health (SDCDEH), no volatile organic compounds (VOCs) were detected in concentrations higher than laboratory detection levels

in the three wells located near the eastern boundary of Parcel B (downgradient of the former Class I landfill). Assuming that these recent data are indicative of future trends, there is no evidence (contained in the documents made available to ENVIRON during this assessment) to indicate that former Class I landfill operations will impact ground water underlying the Property at Parcel B.[3]

Reportedly, when the Class I landfill was closed in 1980, a closure plan was prepared and approved by the appropriate regulatory agencies. As part of the post-closure, ground water monitoring wells are sampled on a regular basis. Ground water monitoring wells are used to establish ground water quality and the ground water flow direction in proximity to both the Class III and former Class I landfills.

According to information provided in the most recent groundwater monitoring report (GeoLogics, 2004) the ground water flow direction in proximity to the former Class I landfill is toward the west-southwest. Based on this ground water flow direction, monitoring wells OTGW-24, OTGW-25, and OTGW-17 are located generally downgradient of the landfill and upgradient of Parcel B. Based on the most recent ground water sampling data, volatile organic compounds (VOCs) were not detected in ground water in these wells. Assuming that these recent data are indicative of future trends, VOCs have not and likely will not impact ground water underlying Parcel B. Because no VOCs were detected above laboratory detection levels in wells adjacent to Parcel B (downgradient from the former Class I landfill), the potential for off-gassing of VOCs from the ground water to underlying soil gas is considered to be low. Therefore, ENVIRON has no further recommendations for further evaluation of VOCs in ground water underlying or in proximity to the Property.

Based on ENVIRON's experience with landfilling activities, the potential for migration of methane gas to the Property (generated as a result of decomposition of buried wastes at the landfill) cannot be ruled out and will be addressed in more detail in ENVIRON's health risk assessment being prepared in conjunction with this Phase I ESA.

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[3] Since the former Class I landfill is located down- or cross-gradient from Parcel A, potential environmental issues as a result of former Class I landfilling operations are unlikely.

6.0 PROPERTY RECONNAISSANCE

6.1 Methodology and Limiting Conditions

Kristin Thomas of ENVIRON conducted a visit to the Property on February 10, 2005. During the site visit, observations of the Property (as observed primarily from public thoroughfares) were made to evaluate if any RECs, as defined in Chapter 2, were present. Due to the size of the Property, access limitations, weather conditions at the time of the site visit, and other safety concerns, ENVIRON did not walk the entire area of Property.

6.2 General Property Setting and Observations

The presence or absence of environmental areas of interest or potential areas of environmental concern is summarized in Table 1 Only those areas of environmental interest or concern that were observed to be present at the Property are discussed further below.

TABLE 1
Summary of Property Reconnaissance Observations

Issue	ASTM Section	Observation
Interior and Exterior Issues		
Storage tanks Underground Storage Tanks (fill ports, vent pipes) Aboveground Storage Tanks	8.4.2.4	Absent
Odors (strong, pungent or noxious)	8.4.2.5	Absent
Asbestos	-	Absent
Pools of liquid, standing surface water or sumps	8.4.2.6	Absent
Drums of hazardous substances or petroleum products (five-gallon, 55-gallon or totes)	8.4.2.7	Absent
Unidentified containers suspected of containing hazardous substances or petroleum products	8.4.2.9	Absent
Polychlorinated biphenyls in electrical or hydraulic equipment (excluding light ballasts)	8.4.2.10	Absent
Interior Issues		
Heating/cooling systems	8.4.3.1	Absent
Stains or corrosion on interior floors, walls or ceilings (except for staining from water)	8.4.3.2	Absent
Floor drains and/or interior sumps or clarifiers	8.4.3.3	Absent
Exterior Issues		
Pits, ponds or lagoons on Property or adjacent Sites	8.4.4.1	**Historically Present**
Stained soil or pavement	8.4.4.2	Absent
Stressed vegetation	8.4.4.3	Absent

TABLE 1 Summary of Property Reconnaissance Observations		
Issue	**ASTM Section**	**Observation**
On-Property solid waste disposal; areas apparently filled or graded by non-natural causes; or mounds or depressions suggesting solid waste disposal	8.4.4.4	**Historically Present**
Wastewater or other liquid (including storm water) or any discharge into a drain, ditch or stream	8.4.4.5	Absent
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells)	8.4.4.6	Absent
Septic systems or cesspools	8.4.4.7	Absent

6.2.1 Pits, Ponds or Lagoons on Property or Adjacent Sites

Based on ENVIRON's review of historical aerial photographs, a settling pond associated with the former Class I landfill was formerly located approximately 600 feet east of Parcel B and 300 feet south of Parcel A. In addition, settling ponds (associated with the former Omar Rendering Disposal Site) historically were present to the south of Parcel B.

As previously discussed, volatile organic compounds (VOCs) were not detected in ground water wells downgradient of the former Class I landfill. Assuming that these recent data are indicative of future trends, VOCs have not and likely will not impact ground water underlying Parcel B. Because no VOCs were detected above laboratory detection levels in wells adjacent to Parcel B (downgradient from the former Class I landfill), the potential for off-gassing of VOCs from the ground water to underlying soil gas is considered to be low.

Based on the fact that the former Omar Rendering Disposal Site is located topographically and hydrogeologically downgradient from the Property, adverse environmental impact to the Property as a result of former operations at this facility is considered to be low.

6.2.2 Areas Filled or Graded by Non-natural Causes

Based on ENVIRON's review of historical aerial photographs and supplemental information provided by Messrs. Ambroso and Lozano, disturbed areas (where vegetation had been cleared) depicted on the aerial photographs were a result of the excavation of soil that was used for backfill material during closure activities at the former Class I landfill, east of Parcel B and south of Parcel A. According to information provided to ENVIRON by the SDCDEH, the County of San Diego presently owns the former Class I Landfill area. As previously discussed, the facility has been inactive since 1980 and the County does not intend to operate it in the future. The neighboring Class III portion of the Otay Landfill is

currently owned and operated by San Diego Landfill Systems, a division of Allied Waste Industries.

7.0 INTERVIEWS

7.1 Interviews with Facility Personnel

On February 28, 2005, ENVIRON conducted a telephone interview with Mr. Samuel Holty, Vice President for Ayres. In addition, ENVIRON conducted a telephone interview with Mr. Jim Ambroso and Paul Lozano of Allied Waste, Inc. on April 6, 2005. As indicated throughout the text of this report, ENVIRON relied significantly on information provided by Messrs. Holty, Ambroso, and Lozano. Most notably, the information provided to ENVIRON included:

- An overview of the known history and ownership of the Property, and

- Information regarding the presence or absence of hazardous materials, underground storage tanks (USTs), and/or structures formerly or currently present at the Property.

7.2 Interviews with Local Government Officials

ENVIRON requested information pertaining to the Property from local regulatory agencies (e.g., HMMD). In addition, ENVIRON reviewed information from the landfill division of the County of San Diego.

8.0 REFERENCES

EDR. 2005. "Radius Map, Inquiry Number: 1355633.3r" February 7.

EDR. 2005. "Aerial Photography Print Service, Inquiry Number 1355633-6," February 7.

EDR. 2005. "Historical Topographic Map Report, Inquiry Number 1355633-5," February 7.

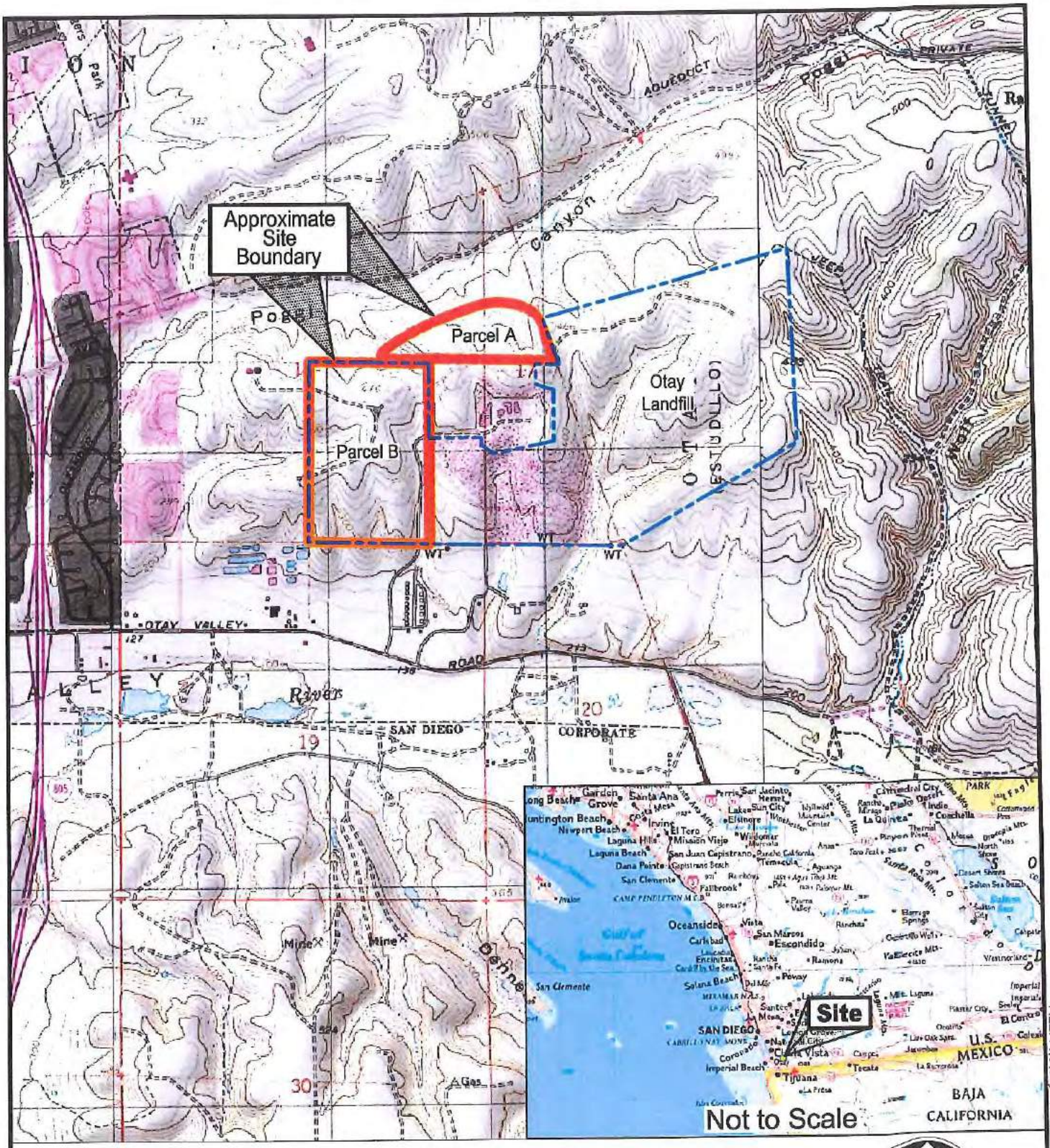
EDR. 2005. "City Directory, *Abstract*, Inquiry Number 1355633-8," February 7.

GEOCON. 1994. *Limited Soil-Gas, Soil, and Ground water Sampling Report for Rancho Del Sur Phase II, San Diego, California.* June 3.

URS. 2000. *Final Closure and Postclosure Maintenance Plan, Otay Class I Landfill.* March 24.

GeoLogics. 2004. *Water Quality Monitoring Report, Semiannual (April 2004 through September 2004) Report, Otay Landfill.* October 28.

FIGURES



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U.S.G.S. 7.5 minute series (topographic)
Imperial Beach, CA Quadrangle, version 1975, current as of 1975

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CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
SCALE 1:24000

ENVIRON

Site Vicinity Map

Sunbow Project Parcel A and B
Chula Vista, California

Figure 1

Drafter: JJC Date: 4/15/05 Contract Number: 05-11157C Approved: Revised:

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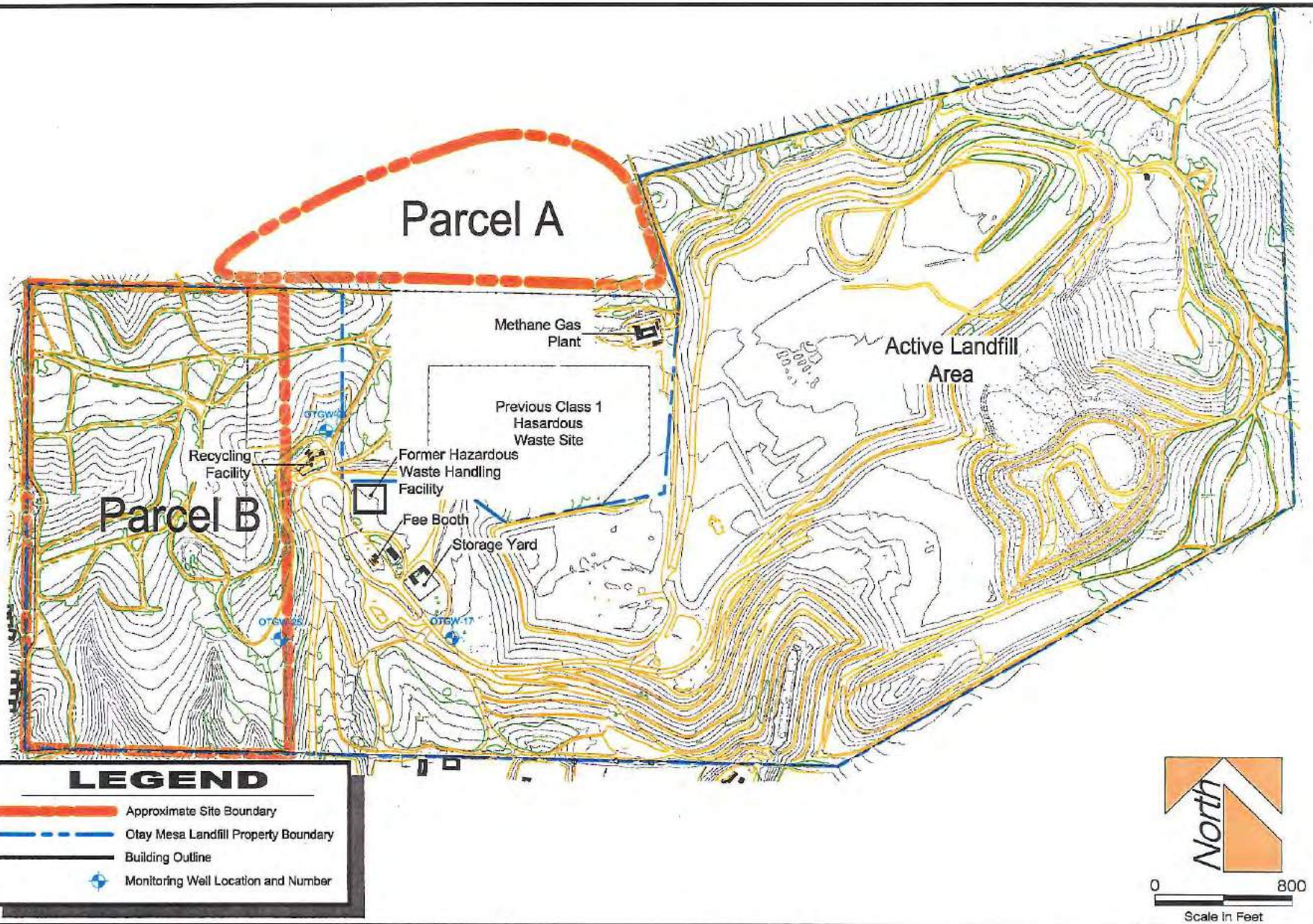

ENVIRON

Site Plan

Sunbow Project Parcel A and B
Chula Vista, California

Figure **2**

Drafter: JJC Date: 4/15/05 Contract Number: 05-11157C Approved: Revised:

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HEALTH RISK AND NUISANCE ANALYSES
TWO LAND PARCELS
ADJACENT TO OTAY LANDFILL
CHULA VISTA, CALIFORNIA

Prepared for

City of Chula Vista
Chula Vista, California

Prepared by

ENVIRON International Corporation
Irvine, California

July 20, 2005

Appendices not included.
Available upon request.

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P:\C\City of Chula Vista\Sunbow HRA\report\HRA Dust Odor and LFG Report Final.doc [05-11157C]

EXECUTIVE SUMMARY

ENVIRON International Corporation (ENVIRON) performed human health risk, nuisance, and odor impact analyses for air emissions from Otay Landfill (the landfill) located at 1700 Maxwell Road, Chula Vista, San Diego County, California. Ayres Land Company, Inc. (Ayres) manages properties for ACI Sunbow, LLC (Sunbow), which owns a 50-acre land parcel adjacent to the north boundary line of the landfill (referred to as "Parcel A" hereinafter). In addition to Parcel A, a second land parcel was included in this evaluation as well, which is located inside the west boundary line of the landfill and is approximately 80 acres (referred to as "Parcel B" hereinafter). ENVIRON was retained by the City of Chula Vista (the City) to evaluate the potential human health risks as well as nuisance issues such as dust deposition and odor, for these two parcels assuming their future potential use as residential, industrial, and/or as a community park.

The air emissions at the landfill include combustion emissions from internal combustion engines (ICEs) and a flare that burns landfill gas, fugitive emissions of landfill gas from the landfill surface, combustion emissions from on-site mobile equipment that burn diesel, combustion emissions from delivery trucks that burn both diesel and gasoline, and fugitive emissions from various landfilling activities such as cover material quarrying, cover material application, dust entrainment from paved and unpaved roads, wind erosion from unpaved areas and disturbed landfill areas, and stockpile handling. The landfill gas (LFG) emissions were estimated using LFG speciation data, default destruction efficiency for the control devices (i.e., the flare and ICEs) and the LFG generation rate. LFG flow rate averaged over the peak 30-year period (2010-2040) was used as the LFG generation rate for estimating the emissions used in the health risk analysis. The emissions of on-site mobile equipment were estimated using the California Air Resources Board (CARB) emission model for off-road equipment (OFFROAD) and the off-road equipment population and activity data provided by Otay Landfill. The emissions of the delivery trucks were estimated using the CARB emission model for on-road vehicles (EMFAC2002) and the activity data provided by the landfill. For the health risk analysis, the emissions between years 2010 to 2040 (to coincide with the peak generation years of LFG) were used to calculate the cancer risks and non-cancer health impacts. The emissions from the fugitive sources were estimated using a combination of the San Diego Air Pollution Control District (SDAPCD) default emission factors and AP-42 equations.

The Hotspots Analysis and Reporting Program (HARP) software was used for the health risk analysis. HARP utilizes the latest *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessment* published by the Office of Environmental Health Hazard Assessment

(OEHHA, 2003), the latest toxicity values published by OEHHA, as well as the United States Environmental Protection Agency (USEPA) *Guideline on Air Quality Models* (USEPA, 2003) to calculate the health risks. In order to estimate the exposure levels at the off-site receptors, HARP uses EPA-approved air dispersion model (Industrial Source Complex Short Term – ISCST3) to simulate the air dispersion from the emission sources and to estimate the concentrations at downwind receptor locations. The model uses facility-specific information such as the source locations, source parameters, meteorological data, receptors in the vicinity, and dimensions of the on-site buildings to estimate the ground level concentrations (GLCs) at various receptors. The GLCs are then used by HARP to estimate the health risks. However, HARP does not have the ability to run the ISCST3 model for deposition calculations. Hence, for the nuisance dust analysis, the ISCST3 model was run separately to provide deposition estimates at receptors located in both land parcels.

ENVIRON used hydrogen sulfide and acetaldehyde as surrogate chemicals to evaluate the potential odor impact from LFG emissions and mobile source emissions, respectively. These chemicals were chosen as they have relatively lower odor thresholds as compared to other chemicals emitted from these sources. Since odor impacts are short-term impacts, ENVIRON calculated the 3-minute GLCs for these chemicals using the maximum 1-hour GLCs obtained from the ISCST3 and compared the 3-minute GLCs with the published odor thresholds.

The results of the health risk assessment indicate that the cancer risks for the potential maximally exposed individual resident (PMEIR or MEIR) at both land parcels are less than 10 excess cancer cases in a million, which is the significance threshold typically used by OEHHA for cancer risks (OEHHA, 2003). The significant threshold for non-cancer health effects (chronic and acute) used in this study is 1.0 expressed as hazard index. The chronic hazard and the acute hazard indices are less than 1.0 for the PMEIR at both land parcels. Since the cancer risk and the non-cancer health impacts are less than the significant thresholds for the PMEIR, the health risks for the maximally exposed other types of receptors (for example, worker or visitor) at the two land parcels are also expected to be less than significant due to the fact that the exposure duration for these types of receptors would be shorter than that of a resident. The diesel particulate matter emissions from the on-site mobile sources (i.e., off-road mobile equipment) and the delivery trucks are the highest contributing air toxic to the cancer risks. The on-site mobile sources are the highest contributing sources to the cancer risks at the PMEIR.

The results of the nuisance dust deposition analysis indicate that the deposition levels for the worst-case receptors are greater than the guideline of 67 to 97 g/m^2-yr as suggested in peer-reviewed publications. A public response study also reported that deposition rates in the range of 69.6-87.0 g/m^2-yr have been perceived as objectionable in industrial settings, which are in general agreement

with the suggested guideline levels. ENVIRON estimated that approximately 20% of the area in Parcel B and approximately 5% in Parcel A would experience deposition rates greater than 67 g/m^2-yr. These levels could generate complaints from residents of homes in Parcels A and B. In addition, dust fallout and deposition on certain individual days resulting from unpredictable wind gusts could generate complaints from the potential residents in much larger areas.

The results of the odor analysis indicate that the H_2S emitted from the landfill operations produces concentrations that are higher than the geometric mean of the odor threshold for one or more receptors in Parcels A and B during approximately 1.2 percent of the time over a one-year period. The odor impacts of acetaldehyde for the worst-case receptors in Parcels A and B are less than the published odor threshold. It should be noted that there may be other odor-causing compounds in the LFG, which have lower odor thresholds but for which no analytical data were provided.

LFG monitoring data reviewed by ENVIRON show that there are no current data indicating that LFG migration is taking place onto Parcels A and B. However, the probe coverage is rather sparse, especially for Parcel B. Based on ENVIRON's experience with landfills at other locations, the potential for migration of LFG generated as a result of decomposition of buried wastes at Otay Landfill to Parcels A and B, cannot be ruled out. To ascertain the presence of LFG at Parcels A and B, a soil gas survey would need to be performed at these two parcels with emphasis on the areas along the common boundaries of these parcels with the landfill. As long as LFG is generated in the landfill, there is the potential for the migration of LFG to the surrounding areas.

1.0 INTRODUCTION

Otay Landfill (hereinafter also referred to as the landfill) is an active Class III municipal solid waste disposal facility located at 1700 Maxwell Road, Chula Vista, San Diego County, California (see Figure 1). The entire landfill property is approximately 464 acres, of which approximately 230 acres are currently permitted for refuse placement. The landfill has been receiving waste since 1963, and is expected to reach its capacity in 2020.

Ayres Land Company, Inc. (Ayres) manages properties for ACI Sunbow, LLC (Sunbow), which owns a 50-acre land parcel adjacent to the north boundary line of the landfill (see Parcel A, as depicted on Figure 2, which will be referred to as "Parcel A" hereinafter). In addition to Parcel A, a second land parcel was included in this evaluation as well, which is located inside the west boundary line of the landfill and is approximately 80 acres (see Parcel B as depicted on Figure 2, which will be referred to as "Parcel B" hereinafter). ENVIRON was retained by the City of Chula Vista (the City) to evaluate the potential human health risks, as well as nuisance issues such as dust deposition and odor, for these two parcels assuming their future potential use as residential, industrial, and/or as a community park. A qualitative evaluation of the potential for landfill gas migration to the two land parcels is also included in this report.

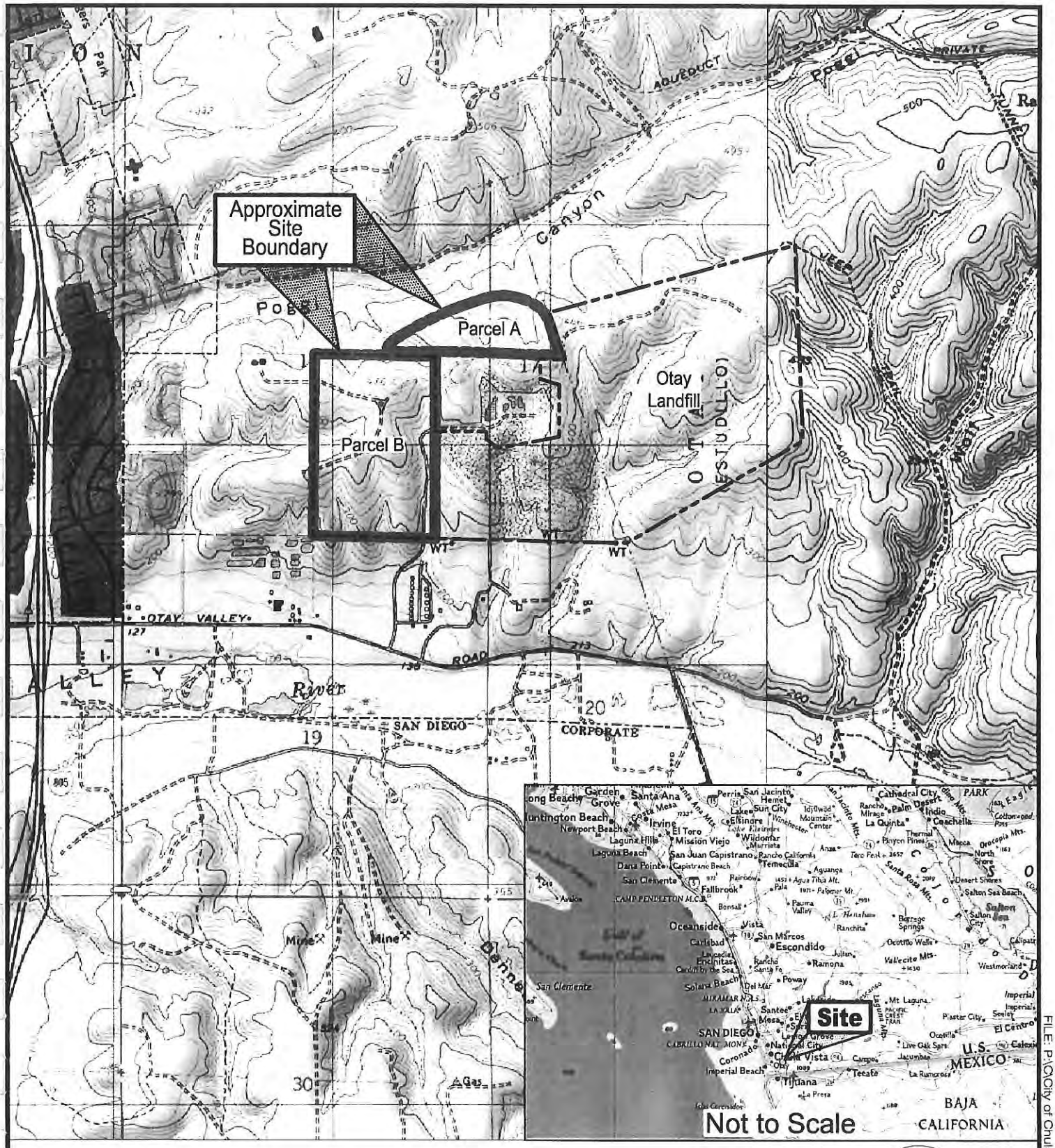
This report is organized as follows:

- Section 2.0 provides a description of the landfill with operational information and estimated emissions of air toxics;
- Section 3.0 describes the air dispersion modeling and the parameters used by the model, such as the model options, source parameters, receptor locations, meteorological data, and organization of the input and output files;
- Section 4.0 explains the exposure factors and risk assessment methodology, as well as the methods used to evaluate the dust deposition and odor impacts;
- Section 5.0 presents the results of the health risk, dust deposition, and odor analyses;
- Section 6.0 presents the conclusions of the health risk, dust deposition, and odor analyses;

- Section 7.0 discusses the uncertainties;
- Section 8.0 presents a qualititative evaluation on landfill gas migration; and
- Section 9.0 presents the references.

This report has been prepared for the City of Chula Vista. The conclusions presented in this report represent ENVIRON's professional judgment based upon the information available and conditions that existed at the landfill. ENVIRON cannot guarantee that implementation of its recommendations will avoid enforcement action by a regulatory agency or litigation by environmental groups. In performing its assignment, ENVIRON had to rely upon publicly available information, analytical and monitoring data provided by others, and information provided by others. Accordingly, the conclusions in the report are valid only to the extent that the information provided to ENVIRON was accurate and complete. Nevertheless, ENVIRON found no reason to question the accuracy of the information it received.

This report is not intended as a substitute for legal advice, nor is it an exhaustive review of site conditions. ENVIRON makes no representations or warranties about the conditions of the site.



SOURCE:
U.S.G.S. 7.5 minute series (topographic)
Imperial Beach, CA Quadrangle, version 1975, current as of 1975

0 1/2 1 MILE
2000 0 2000 4000 FEET

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
SCALE 1:24000

ENVIRON

Site Vicinity Map

Sunbow Project Parcel A and B
Chula Vista, California

Figure **1**

Drafter: JJC Date: 4/15/05 Contract Number: 05-11157C Approved: Revised:

FILE: P:\City of Chula Vista\Phase 1\Figures\11157CF01

2.0 AIR EMISSION CALCULATIONS

The air emissions associated with the landfill operations include combustion emissions from internal combustion engines and a flare that burns landfill gas, fugitive emissions of landfill gas from the landfill surface, combustion emissions from on-site mobile equipment that burn diesel, combustion emissions from delivery trucks that burn both diesel and gasoline, and fugitive emissions from various landfilling activities such as cover material quarrying, cover material application, dust entrainment from paved and unpaved roads, wind erosion from unpaved areas and disturbed landfill areas, and stockpile handling. The methods used for calculating the emissions of various air toxics from these sources are presented below:

2.1 Landfill Gas Emissions

Landfill gas (LFG) is generated during the natural process of bacterial decomposition of organic material contained in the municipal wastes. By volume, LFG typically contains 45% to 60% methane and 40% to 60% carbon dioxide. LFG also includes small amounts of nitrogen, oxygen, ammonia, sulfides, hydrogen, carbon monoxide, and less than 1 percent of non-methane organic compounds (NMOCs) such as trichloroethylene, benzene, and vinyl chloride, as well as trace amounts of inorganic compounds.

Otay Landfill has installed an LFG collection system. The collection system captures a majority of the LFG, with the uncollected LFG being emitted from the landfill surface as fugitive emissions. The system routes a portion of the collected LFG to a flare and the remaining portion of the collected LFG to two internal combustion engines (ICEs). The flare burns 98 percent of the organic compounds in the LFG routed to it. The ICEs burn LFG to generate power at the on-site power plant. The following steps were used to calculate the emissions of air toxics from the combustion of LFG in the ICEs and the flare. Emission calculation tables are presented in Appendix A.

2.1.1 LFG Generation Rate

Since the LFG generation is a long-term process, it is difficult to predict the variation of the generation rate during a short period of time (e.g. hourly, or daily) due to incremental changes in ambient temperature, moisture, and waste composition. Annual LFG generation rates can be estimated by using a theoretical first-order kinetic model of methane production

developed by the United States Environmental Protection Agency (USEPA). The annual LFG generation rates used in this evaluation were estimated by SCS Engineers (SCS), who modeled the LFG generation rates using site-specific data in conjunction with the USEPA model. The estimated LFG generation rate for each year from 1963 to 2076 are listed in Table A-1. The maximum LFG generation is at year 2020, when the landfill reaches its maximum placement capacity. The LFG flow rate averaged over the peak 30-year period (2010-2040) was used as the LFG generation rate for the health risk assessment. Both the peak LFG generation rate and the average LFG generation rates (from 2010 to 2040) were used to evaluate the potential odor impact.

According to the USEPA (AP-42, Chapter 2.4), LFG collection systems are not 100% efficient in collecting LFG. Reported collection efficiencies typically range from 60% to 85%, with an average of 75% most commonly used. In this evaluation, ENVIRON relied on the 80% collection efficiency reported by SCS' evaluation of Otay Landfill's collection system.

2.1.2 Concentrations of LFG Constituents

ENVIRON used the results of LFG sampling done in July 2002 by SCS to generate the concentrations of LFG constituents. Table A-2 presents the concentrations of various LFG constituents. If a particular compound was reported as non-detect, half of the detection limit was used. ENVIRON also used the USEPA's default values in AP-42; Chapter 2.4 for estimating the concentrations of hydrochloric acid (HCl) and mercury.

2.1.3 Emissions from LFG Combustion in ICE and Flare

ENVIRON calculated the controlled LFG emissions from the flare based on the destruction efficiency of 98% as recommended by the San Diego Air Pollution Control District (SDAPCD) guidance document on landfill operations. For the ICEs, ENVIRON relied on the equipment's air permit conditions that require 98% destruction efficiency for all compounds. The emission calculations from the flare and the ICEs are presented in Tables A-3 and A-4, respectively. The maximum heat input ratings of the flares and ICEs were used for calculating the maximum 1-hr emission rates.

2.1.4 Fugitive Emissions of LFG from Landfill Surface

Since the LFG collection system captures only 80% of the LFG generated, the remaining 20% LFG is released from the landfill surface as fugitive emissions. The fugitive emissions of LFG from the landfill surface are presented in Table A-5.

2.2 Fugitive Emissions from Landfilling Activities

Fugitive emissions in the form of particulate matter (PM) occurs from various landfilling activities such as cover material quarrying and application, dust entrainment from the movement of the landfill equipment including waste delivery trucks traveling on paved and unpaved roads, wind erosion from unpaved surface and disturbed landfill areas and stockpile handling. The air toxics emitted from these activities consist of trace metals found in the soil. ENVIRON used the results of sampling done by URS in April 2002[1] from the unpaved and cover soil to estimate the concentrations of various toxic metals in the dust. The results of the URS sampling are presented in Table A-6. ENVIRON used the maximum value of the two samples for each metal to be conservative. The emission calculations for the various landfilling activities resulting in fugitive emissions are described below:

2.2.1 Cover Material Quarrying and Application

ENVIRON used the SDAPCD default emission factor to calculate the emissions of PM_{10} and PM from cover material quarrying and associated activities. The SDAPCD emission factor is a composite emission factor, which includes the emissions generated from all activities related to quarrying (i.e., excavation, quarry vehicles, bulldozing, and loading of the transport trucks). As instructed by the SDAPCD, the same emission factor was also used to estimate the PM_{10} and PM emissions from cover material application. The emission calculations for the cover material quarrying and cover material application are presented in Tables A-7 and A-8, respectively.

2.2.2 Dust Entrainment from Paved Roads

The movement of vehicles on the paved road generates PM emissions. The information on the vehicles (vehicle weight, horsepower [HP], number of tires, etc.), both for the delivery trucks and on-site mobile equipment, is presented in Table A-9. AP-42 equation 13.2.1.3 (1)

[1] Calscience Environmental Laboratories, Inc., 2002. Laboratory Analysis Report, Trace Metal Analysis, April 19, 2002.

was used to calculate the dust entrainment emissions from paved roads. Table A-10 presents the dust entrainment emissions from paved roads.

2.2.3 Dust Entrainment from Unpaved Roads

AP-42 equation 13.2.2.2 (1a) was used to calculate the dust entrainment emissions from unpaved roads. Table A-11 presents the dust entrainment emissions from unpaved roads. A control efficiency of 80% was used, which is the AP-42 recommended default for facility using watering as a control measure.

2.2.4 Wind Erosion of Unpaved Roads and Active Landfill Areas

Emission factor from AP- 42; Table 11.9-4, wind erosion of exposed areas for the coal mine was used to calculate the wind erosion emissions from unpaved roads and disturbed active landfill areas. Table A-12 presents the emissions from wind erosion.

2.2.5 Emissions from Stockpile Handling

AP-42 equation 13.2.4 was used to calculate the PM emissions from stockpiling operations. Table A-13 presents the emissions from stockpiling operations.

2.2.6 Emissions of Toxic Metals from Various Landfilling Activities

Table A-14 summarizes the emissions calculation of toxic metals from the various described above. The emissions of toxic metals were calculated as:

$$E_{toxic\ metal} = E_{PM10} \times Conc_{toxic\ metal}$$

where,

E_{PM10} – PM_{10} emission from the landfilling activity

$Conc_{toxic\ metal}$ – Concentration of toxic metal in soil

2.3 Emissions from On-Site Diesel Mobile Equipment and Delivery Trucks

The emissions of the on-site mobile equipment were estimated using the California Air Resources Board (CARB) emission model for off-road equipment (OFFROAD), the off-road equipment population, and the activity data provided by Otay Landfill for the on-site mobile equipment. For the delivery trucks, the emission estimates were generated using the CARB emission model for on-

road vehicles (EMFAC2002) and the activity data provided by Otay Landfill. Appendix B provides a detailed description on the emission calculation methodology used for estimating the emissions.

For the purposes of this evaluation, the average PM emissions from years 2010 to 2040 were used to calculate the cancer risks and non-cancer health impacts. The average PM emissions from years 2010 to 2040 were estimated assuming that the landfill would have the same number of off-road equipment and on-road vehicles operating in the same manner as current operations (e.g., same usage hours, vehicle miles traveled, etc.). The major difference between the current year emissions (2004) and the average 2010-2040 emission estimates would be that the landfill would have lower emitting off-road equipment and on-road vehicles because of the 2006 ultra low sulfur diesel (ULSD) fuel and 2007 heavy-duty diesel vehicles (HDDVs) emission standard regulations, as well as the Tier 4 off-road engines (USEPA Final Rule[2]), which will phase in from 2011 to 2015.

To estimate the emissions for on-road heavy-duty vehicles, 2010 and 2020 emission factors were generated using the EMFAC model; the 2020 calendar year is the upper bound of the modeling year range in the EMFAC model. Nevertheless, the 2020 emission factors for on-road vehicles account for the 2006 ULSD fuel and 2007 HDDV emission standards. Emissions in year 2040 were assumed to be the same as those of 2020. The average emissions were then calculated using 2010, 2020, and 2040 emissions for on-road vehicles.

For the off-road equipment, the emissions from the construction diesel equipment in the San Diego Air Basin for the 2004, 2010 and 2020 calendar years were generated using the OFFROAD model. Using the 2004, 2010 and 2020 OFFROAD emission results, ratios of 2010/2004 and 2020/2004 were calculated. However, the OFFROAD model does not account for the Tier 4 off-road emission standards. The Tier 4 emission standards would reduce the PM emissions from the Tier 2/Tier 3 engines by more than 90%. It is very likely that the mobile equipment engines (with expected useful lifetime of 20 years or less) at the landfill would meet Tier 4 standards by 2040 since the new engines will be in the market from 2011 to 2015. Therefore, a 90% emission reduction was applied to the 2020 emission to estimate the year 2040 emissions, and the ratio of 2040/2004 was then calculated. The average emissions for the landfill off-road equipment were then calculated using the 2004 baseline emissions and the ratios. The average PM emissions from 2010 to 2040 would be 1.80 tons per year (tpy) without accounting for the Tier 4 regulation. With the Tier 4 reduction, the average emissions of 2010 to 2040 were estimated to be 1.35 tpy. Both emission scenarios (i.e., with or without the Tier 4 reduction) were included in the health risk assessment described later in this report.

[2] Control of Emissions of Air Pollution from Non-road Diesel Engines and Fuel, EPA Final Rule, effective August 30, 2004.

The average 2010-2040 PM and air toxic emissions for the delivery trucks and on-site mobile equipment are shown in Tables A-15 and A-16, respectively.

3.0 AIR DISPERSION MODELING

The Industrial Source Complex – Short Term (ISCST3) model, a USEPA approved model, was used to simulate the air dispersion from the emission sources associated with the landfill operations. The ISCST3 model provides estimates of ground level concentrations at specified distances (i.e., receptors) from an air emission source using a coordinate system such as a Cartesian system.

3.1 Model Options

The following regulatory default options were used in running the ISCST3 model based on the USEPA guidelines[3]:

1. Final Plume Rise
2. Stack-tip Downwash
3. Buoyancy-induced Dispersion
4. Use Calms Processing Routine
5. Not Use Missing Data Processing Routine
6. Default Wind Profile Exponents
7. Default Vertical Potential Temperature Gradients
8. "Upper Bound" Values for Supersquat Buildings
9. No Exponential Decay for URBAN/Non-SO_2

The land use around the landfill was considered as urban area, which was evaluated using the Auer method as specified in the USEPA guidelines on air quality models cited above. The Auer method defines an area as urban if the land-use types of industrial, commercial, and residential account for 50% or more within a 3-kilometer circle.

The topography within the receptor network of Parcel A and B has an elevation difference of about 50 meters between the highest (125 meters) and the lowest (74 meters) points. Some of the receptors are located below the base elevation of stacks, some located below the tip of the stacks (simple terrain), and some others located above the tip of the stacks (complex terrain). The ISCST3 model provides a non-default option of HE>ZI[4] to address the scenario where the receptors are below the

[3] Guidelines on Air Quality Models. Appendix W, 40 CFR 51, April, 2003.

[4] A non-default option of HE>ZI is to address a potential problem that may occur for cases when the receptor elevation is below the stack base elevation. In these cases the mixing height (ZI), which is terrain-following, may drop below the plume centerline height (HE), which is horizontal, resulting in anomalously large concentrations due to the actual plume approaching the centerline of one of the image plumes in the Vertical Term.

stack base. However, ENVIRON's sensitivity analyses suggested that it was not necessary to use this non-default option of HE>ZI for the ISCST3 runs. The "elevated terrain" option was selected in the ISCST3 to allow the model to use either simple or complex terrain, whichever is applicable, based on the receptor elevations.

Building downwash is the effect of nearby structures on the flow of the plumes from their respective emission sources. Building downwash was considered for the building housing the ICEs. The USEPA-approved Building Profile Input Program (BPIP) was used to simulate the downwash effect.

3.2 Source Parameters

Emission source parameters required by the ISCST3 model included source type, emission rate, stack height, stack inside diameter, stack exit velocity, and stack gas temperature. The input source parameters for the various sources are presented in Tables 1a and 1b. As mentioned earlier in the report, the objective of this assessment was to perform health risk, odor, and nuisance analysis. The ISCST3 model was run using the unit emission rate (i.e., 1.0 gram per second [g/sec]) for both the health risk and odor analyses. Consequently, the predicted concentrations in the model output files are actually dispersion factors (i.e., χ/Q, $\mu g/m^3$ per g/sec), which are used by the risk model to calculate the risk values, as discussed later in this report. For the nuisance analysis, the ISCST3 model was run using the actual emission rate of the sources.

3.3 Source Grouping

ENVIRON adopted the following source grouping schemes based on the information provided by the landfill, the limitations of the ISCST3 model in terms of aspect (i.e., length/width) ratio for area sources, and the engineering judgment:

(1) Air emissions from the 475 diesel fueled waste delivery trucks per day were modeled as four point sources located along the roads that the truck travel, namely Delivery Truck 1 through 4 in the ISCST3 model. The same assumption was applied to gasoline fueled waste delivery trucks as well. Two "Point Sources" were used to represent the emissions from the 50 per day gasoline trucks. Therefore, in ISCST3 model six (6) waste delivery trucks (4 diesel fueled and 2 gasoline fueled) were created throughout the landfill;

(2) Four "Point Sources" were used to represent the on-site mobile equipment at the landfill. The five dozers were grouped into a single dozer point source, three compactors were grouped into a single compactor point source, two scrapers were

grouped into a single scraper point source, and the remaining five pieces of equipment were grouped and represented by a single grader point source. The locations for these sources were chosen to represent their actual operating areas and accordingly these sources were placed on the active landfill areas;

(3) Seven rectangular area sources were created in the ISCST3 model to represent the surface area of paved roads, because area sources cannot have an aspect ratio greater than 10 in the ISCST3 model. The total surface area of these seven rectangular sources matches the surface area of the actual paved roads within the landfill;

(4) In lieu of reproducing the actual unpaved road system in the model, two rectangular area sources were used. The total surface area of unpaved road was estimated at approximately 8 acres. Two rectangular area sources were placed near Parcel A and Parcel B for conservative simulation;

(5) A single rectangular area source was used for several stockpiles at the landfill; and

(6) Three rectangular area sources were created in the model to replicate three active landfill areas.

Figure 3 illustrates the various emission source locations used in the ISCST3 model.

3.4 Description of Receptors

The receptors used in the modeling were identified either by a Cartesian grid network or discrete Cartesian coordinates, both using the three-dimensional UTM coordinates. For PM_{10} concentration and odor modeling runs, the receptor height was set at 1.5 meters above ground, at an average person's breathing level. The following sets of receptors were generated and included in the model runs:

Fenceline Receptors: Discrete Cartesian UTM coordinates were used to identify the receptors along the facility's property boundary using a fine receptor spacing of 50 meters. This set included 142 receptors.

Receptor Grid Networks: The Cartesian grid receptor network is a regularly spaced square grid. In this modeling, two receptor grids were generated, one is built over Parcel A area and another one is built over Parcel B. The Parcel A receptor grid network is at 50-meter intervals in each direction

containing 198 receptors. The Parcel B receptor grid network is at 50-meter intervals in each direction containing 170 receptors.

No receptor within the facility's boundary was included in the model.

3.5 Meteorological Data

Otay Landfill is located in San Diego County. As recommended by the San Diego Air Pollution Control District (SDAPCD), the surface meteorological data for Chula Vista (Station number 72290) and the upper air data for Miramar (Station number 3190) were used. The meteorological data from both the stations were processed using PCRAMMET to format the data into an ISCST3 model ready format. Data substitution was performed using the Atkinson-Lee method for missing data. The meteorological data for three years, from 2001 to 2003, were used for all model runs. Of the three years, the highest health risks were for the year 2002, hence this year was considered as more conservative. The wind rose plot for the year 2002 is presented in Figure 3. As shown on the wind rose, wind in the vicinity generally comes from the West. A more detailed report on the meteorological data processing is provided in Appendix C.

3.6 Terrain Data

Otay Landfill is situated in a complex terrain area. In the ISCST3 modeling, the 1-degree Datum data from United States Geological Society (USGS) for San Diego-East and San Diego–West were used to process the terrain profile around the facility. The DEM files from USGS were imported into the ISCST3 model and the model calculated the elevations of the sources and receptors. The model uses an interpolation scheme to calculate the exact elevations of the sources and the receptors. As described earlier, due to the dynamic changes on landfill surface elevations this model analysis manually set elevation at 192 meters[5] for the following sources, the location of which will change over time:

(1) Landfill 1 through Landfill 3;
(2) Stockpile;
(3) Unpaved Road 1 and 2;
(4) Diesel truck No. 4 and gasoline truck No. 2 (on unpaved road); and
(5) Landfill heavy equipment including dozer, compactor, scraper, and grader.

[5] 192 meters was calculated by averaging the current landfill surface elevation of 163 meters and the expected highest elevation of landfill surface of 221 meters.

3.7 Input and Output Files

The ISCST3 model input file created by HARP for the health risk analysis is included in Appendix D. The ISCST3 input file and the excerpts from the output files for the deposition analysis are presented in Appendix F. Appendix G presents the ISCST3 input and excerpts form output file for the odor analysis for Hydrogen Sulfide and Appendix H presents the ISCST3 input and excerpts form output file for the odor analysis for Acetaldehyde.

4.0 METHODOLOGY

4.1 Health Risk Analysis Method

This section provides a brief discussion on the method used for human health risk analysis.

4.1.1 HARP Software

The health risks were calculated using the Hotspots Analysis and Reporting Program (HARP) Version 1.1(Build 23.02.21). HARP is a tool that incorporates the programmatic requirements of the Air Toxics "Hot Spots" Program. It is a computer software package that combines the tools of emission inventory database, facility prioritization, air dispersion modeling, and health risk analysis. The organization of HARP can be briefly described as follows:

- CEIDARS-Lite Database: The main component of HARP is the CEIDARS-Lite database from which all the analysis tools are connected. CEIDARS-Lite can be used to organize and manage criteria and toxics emissions from facilities. This essentially is the emission inventory module of HARP.

- Air Dispersion Analysis: This tool allows easy utilization of the facility emissions data from the CEIDARS-Lite database to perform the air dispersion analysis. This module uses only ISCST3 as the air dispersion model.

- Health Risk Analysis: This portion of the HARP performs health risk analyses, that follow the OEHHA guidelines6. The risk analysis tool integrates the CEIDARS-Lite database and the results of the air dispersion analysis so that risk calculations can be performed within the same program.

Appendix E presents the HARP output file for the residential scenario.

[6] Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessment (OEHHA, 2003).

4.1.2 Exposure Pathways

The OEHHA guidelines recommend that, in addition to the inhalation pathway, non-inhalation primary and secondary exposure pathways be evaluated for multi-pathway pollutants. The primary non-inhalation pathways include dermal exposure, water ingestion, soil ingestion, and crop ingestion (direct deposition). The secondary non-inhalation pathways include ingestion of mother's milk, meat, eggs, dairy products, and crop ingestion (root uptake). All of these exposure pathways were evaluated for applicability to the Otay Landfill and the following pathways were included in the HRA for residential exposure:

- Inhalation
- Dermal exposure
- Soil ingestion
- Home grown produce
- Mother's milk

The water ingestion pathway was not considered, as there is no water body in Parcels A and B that the future residents would use as a source for drinking water. For the worker scenario, the three applicable exposure pathways considered were inhalation, dermal contact and soil ingestion.

4.1.3 Carcinogenic Health Effects

As mentioned earlier, HARP was used to calculate the health risks from the air emission sources associated with the operations of Otay Landfill. For carcinogens, HARP uses the corresponding unit risk factors (URFs) for computing cancer risk through inhalation. If the carcinogen is a multi-pathway pollutant, HARP uses the cancer potency slope (CPS) to estimate the risk from non-inhalation pathways.

Risk assessment modeling for the residential exposure scenario assumed continuous lifetime exposure duration of 30 years. The underlying assumption is that the residential population would remain at the same location for the entire 30 years. This assumption is also consistent with the emission calculations for which the peak 30 years of LFG generation was used.

4.1.4 Non-Carcinogenic Health Effects

In the analyses of non-carcinogenic health effects, it is generally assumed that a threshold exists below which no adverse health impacts are expected. The concept of a threshold is based on studies that indicate the body can tolerate low levels of exposure. The types of non-carcinogenic health effects vary depending on the pollutant, the magnitude of exposure, and the duration of the exposure. These health effects can generally be classified into acute exposures (short-term exposures) and chronic exposures (long-term exposures).

Acute and chronic reference exposure levels (RELs) for inhalation pathway and reference doses (RfDs) for non-inhalation pathway were used to evaluate non-cancer health effects. The non-carcinogenic hazard indices were computed for both chronic and acute exposures using their respective toxicological endpoints (or target organs).

The use of a hazard index approach is recommended in the OEHHA Guidelines to evaluate the cumulative non-carcinogenic health impacts of a mixture of compounds. The hazard index approach assumes that the health effects of a chemical mixture to a given target organ are additive. The hazard index is calculated by dividing the estimated exposure (ground level concentration) to a given substance by the REL for that substance or dividing the dose level by the RfD for that substance.

$$\text{Hazard Index} = \Sigma \frac{\text{Exposure}_i}{\text{Health Standard}_i}$$

Where:

i = the number of pollutants being evaluated.

The hazard index evaluates certain groups of substances that exert their effect on the same target organs. Therefore, a hazard index is calculated for each target organ. The chronic hazard index is based on the annual average emissions and the modeled annual average concentration, whereas the acute hazard index is based on the maximum 1-hour emissions and the modeled maximum 1-hour concentrations. The total hazard index for a target organ is computed as the sum of the hazard indices of all pollutants affecting the same organ.

4.2 Fallout Nuisance Dust Analysis Method

This section discusses the method used for conducting the nuisance dust analysis. The nuisance analysis focused on the fugitive PM emissions from the various landfilling activities at Otay Landfill. The sources of fugitive emissions at the landfill have been presented in Section 3 of the

report. Particles having size less than 100 micrometers (μm) were treated as nuisance dust for the purpose of this analysis.

The ISCST3 model was run to estimate the PM deposition impacts from the various sources using the actual PM emission rates from the sources; and hence the modeled results were actual deposition rates at the receptors. The historical average annual rainfall is quite low for the County of San Diego, hence, only dry deposition calculations were performed. In the absence of any state or federal regulations quantitatively relating to nuisance dust deposition, the modeled deposition results were compared with thresholds in peer-reviewed publications, which are frequently cited in environmental impact analyses.

4.3 Odor Analysis

This section discusses the methodology ENVIRON used to assess the odor impact on Parcel A and Parcel B due to the landfill operations. The odor impact analysis consisted of the following key steps:

4.3.1 Identification of Odor Emission Sources

ENVIRON identified the following sources, which could emit chemicals that have odor impacts:

- LFG combustion in flare and ICEs
- Fugitive emissions of LFG from landfill surface
- Diesel and gasoline combustion emissions from on site mobile equipment and waste delivery trucks

4.3.2 Calculation of the Odorous Compounds' Emission Rates from Each Source

ENVIRON used Hydrogen Sulfide and Acetaldehyde as surrogate chemicals to evaluate the odor impact from LFG emissions and mobile sources emissions respectively. These chemicals were chosen as they have relatively lower odor thresholds as compared to other chemicals emitted from these sources. Since odor impacts are short-term impacts, ENVIRON used the maximum heat input rating for the ICEs and flare to calculate the maximum 1-hr emissions from these sources. For estimating the fugitive emissions of LFG from landfill surface, two scenarios were evaluated; peak LFG generation rate for year 2020 and average LFG generation rate for years 2010-2040. ENVIRON used the 20% (the LFG

control system has a capture efficiency of 80% as mentioned earlier in the report) of the LFG generation rate to calculate the emissions.

4.3.3 Calculation of the Ground-Level Concentration of the Odorous Species

The ISCST3 model was run using the unit emission rate (i.e., 1.0 gram per second [g/sec]) for the odor analysis. Consequently, the predicted concentrations in the model output files are actually dispersion factors (i.e., χ/Q, $\mu g/m^3$ per g/sec), which were used to calculate the maximum 1-hr concentration for odorous compounds. The maximum 1-hr ground level concentration was further converted to a 3-min concentration using the following equation[7]:

$$\chi_s = \chi_k (T_k / T_s)^p = \chi_k (3/60)^p$$

where,

χ_s – the concentration for the averaging time Ts (i.e., 1 hour)

χ_k – the concentration for the averaging time T_k (assumed to be 3 minutes)

p – a constant between 0.17 and 0.2 (used 0.2)

The predicted ground-level concentrations will be higher when using a greater value of p. In this analysis, 0.2 was used to estimate the 3-minute peak concentration.

4.3.4 Comparison of the Ground-Level Concentrations with Odor Thresholds

The calculated worst-case 3-minute ground-level concentrations of hydrogen sulfide and acetaldehyde were compared with the odor thresholds published by the American Industrial Hygiene Association (AIHA).[8] Odor thresholds used in this evaluation were defined as the lowest odorant concentration at which 50% of the people can ascribe a definite character to the odor. The geometric means of the AIHA critiqued thresholds were used as the principle to evaluate the odor nuisance, considering these mean values represent the best estimate of the odor thresholds.

[7] Workbook of Atmospheric Dispersion Estimates: An Introduction to Dispersion Modeling. D. Bruce Turner, 1994.
[8] Odor Thresholds for Chemicals with Established Occupational Health Standards. American Industrial Hygiene Association, 1989.

5.0 RESULTS AND DISCUSSIONS

5.1 Results of the Health Risk Evaluation

This section discusses the results of the health risk analysis, both cancer and non-cancer health effects. Excess individual cancer risk of 10 in a million is a generally accepted significant cancer risk threshold[9]. The significance threshold used to evaluate the non-cancer health impacts in this study is 1.0 for HIA and HIC. The health impacts, both cancer and non-cancer, at the maximally exposed resident are expected to be higher than those at the maximally exposed non-residential receptors such as commercial receptors.

5.1.1 Cancer Risks

Tables 2A through 3B and the table below summarize the results of cancer risk estimates from the landfill operations for receptors in Parcel A and Parcel B. The table below summarizes the predicted cancer risks at the potential maximum exposed individual resident (PMEIR or MEIR) with and without the Tier 4 90% PM emission reduction for the off-road engines. As can be seen from the table below, the MEIR has a cancer risk less than ten (10) in a million for both Parcel A and Parcel B. Figure 5 presents the cancer risk isopleths (with the Tier 4 reduction) for the land parcels showing the areas having risks greater than 10 in a million, which is within the landfill boundary. The 5 in a million contour has also been plotted on Figure 5 for informational purposes. The on-site mobile sources, namely the scrapers, dozers, compactors and graders are the highest contributors to the cancer risk. The contributions from various sources to the cancer risk are presented in Table 2A and 2B. Diesel exhaust particulate matter is the highest contributing chemical to the cancer risk in all scenarios.

Summary of Cancer Risk Estimate

Receptor Scenario	Maximum Cancer Risk in a Million	
	Parcel A	Parcel B
Residential (with Tier 4)	7.9	7.6
Residential (without Tier 4)	8.7	8.2

[9] As recommended by the State of California Office of Environmental Health Hazard Assessment (OEHHA) in Air Toxics Hot Spots Risk Assessment Guidelines.

5.1.2 Non-Carcinogenic Health Impacts

Tables 4A through 7B and the table below summarize the non-carcinogenic health impacts from the landfill on Parcels A and B. The acute hazard index (HIA) for the worst-case receptor for both Parcel A and Parcel B is less than 1. The on site mobile equipments are the highest contributors to the HIA, with Formaldehyde being the highest contributing chemical. The chronic hazard index (HIC) is less than 1 for all the receptors in both the land parcels, with Manganese being the highest contributing chemical.

Summary of Non-Carcinogenic Health Impacts

Non-Cancer Hazard Index	Parcel A	Parcel B
Acute Hazard Index (HIA)	0.64	0.63
Chronic hazard Index (HIC)	0.02	0.031

5.2 Results of the Nuisance Analysis

The table below provides summary of the ground level PM deposition in grams per square meter per year (g/m^2-yr) for the maximally impacted receptors in Parcel A and Parcel B. Table 8 provides the particle size distribution used in the deposition analysis. There are currently no federal or California regulatory standards for nuisance dust deposition. The suggested guidelines[10] for deposited ambient dust in the United States range from 183 to 267 mg/m^2 per day, equivalent to 67 to 97 g/m^2 per year. In addition, deposition rates in the range of 69.6 to 87 g/m^2-yr have been perceived as objectionable, which are generally in the same range as the U.S. suggested guidelines. Examples of dust deposition standards outside of the US are provided in Table 9. Documented[11] public response levels related to dust deposition rates are summarized in Table 10. The deposition contours of 67 to 97 g/m^2 per year are presented in Figure 6. It should be noted that the dust fallout or deposition on individual days could be caused by unpredictable wind gusts and other short-term meteorological conditions, which may result in complaints from the receptors living or working in the areas outside the isopleths as shown on Figure 6.

[10] H.W.Vallack and D.E.Shillito "Suggested Guidelines for Deposited Ambient Dust" *Atmospheric Environmental* Vol. 32, 1998.

[11] www.quarry.leeds.ac.uk/goodquarry article

Annual Averaged PM Depositions (g/m^2-yr)

	2003		2002		2001		Suggested Guidelines for US
	Parcel A	Parcel B	Parcel A	Parcel B	Parcel A	Parcel B	
Maximum	100.0	110.1	90.4	108.1	115.7	98.3	67-97

5.3 Results of the Odor Analysis

Table 11 and the table below present comparisons of the modeled 3-minute concentrations of hydrogen sulfide (H_2S) and acetaldehyde with their respective odor thresholds. The predicted H_2S concentrations are higher than the odor thresholds for both Parcel A and Parcel B, which implicates potential odor nuisance. Figure 7a and 7b present the isopleths of maximum 1-hr concentrations of H_2S. For developing these isopleths, the odor threshold of 0.0045 ppm for H_2S[12] was converted into a maximum 1-hr concentration using the Turner's method discussed in Section 4.0. In addition to the isopleths that present the maximum 1-hour average concentrations at all receptors, ENVIRON also analyzed how many hours during a one-year period that the predicted H_2S concentrations are likely to exceed the odor threshold using the most conservative 2003 meteorological data. The results showed approximately 1.2% in a year (i.e., 111 hours out of 8,760 hours) that the predicted concentrations would exceed the odor threshold at one or more receptors on the two land parcels.

It should be noted that the odor evaluations were performed based on normal operation conditions. The odor nuisance may be worse during periods of flare maintenance when the LFG is emitted from the landfill surface. In addition, there may be other odor-causing compounds in the LFG (e.g., methyl mercaptan and ethyl mercaptan) that have much lower odor thresholds than that of H_2S, for which the analytical data were not provided to ENVIRON. The potential odor impacts of those compounds were not evaluated in this study.

[12] Since odor is a short term impact, the odor threshold of 0.0045 ppm was assumed to be a 3-min concentration.

Comparison with Odor Thresholds

Odor Surrogate	Modeled 3-min Ground Level Concentration (ppm)		Odor Threshold (ppm)
	Parcel A	Parcel B	
Hydrogen Sulfide (peak LFG generation rate)	0.0157	0.0190	0.0045
Hydrogen Sulfide (average LFG generation rate)	0.0124	0.0151	0.0045
Acetaldehyde	0.0071	0.0068	0.067

6.0 CONCLUSIONS

6.1 Health Risk Analysis

The excess individual cancer risk of 10 in a million and non-cancer risk of 1.0 expressed as hazard index are generally accepted health risk thresholds by the State of California[13]. The SDAPCD also considers cancer risks less than 10 in a million as acceptable under SDAPCD regulations and California Environmental Quality Act (CEQA) guidelines. The cancer risk isopleth of 10 in a million is within the landfill boundary for the residential scenario. The non-cancer acute and chronic hazard indices for the maximally exposed receptors in Parcels A and B are less than the significance threshold of 1.0. Therefore, ENVIRON concludes that the cancer risks and the non-carcinogenic health impacts for the proposed residents on Parcels A and B are less than significant. Because the exposure durations of other types of receptors (such as a commercial receptor or a visitor) are expected to be much shorter than those of the residents, the cancer and non-cancer health risks for those receptors are also expected to be less than significant.

6.2 Nuisance Dust Analysis

In the absence of any California state or federal standards, ENVIRON has relied on guidelines available in peer reviewed publications to draw its conclusion for the nuisance dust deposition analysis. As discussed in the results section, the predicted dust deposition rates for the maximally exposed receptors in Parcels A and B exceeded the suggested guidelines of 67 to 97 g/m^2-yr. Approximately 20% of the area in Parcel B and approximately 5% area in Parcel A have deposition rates greater than 67 g/m^2-yr. In those areas, nuisance dust could be a significant issue for the residential or industrial receptors. In addition, short-term wind conditions could cause much worse daily dust deposition problems covering a much larger area on the two land parcels.

6.3 Odor Analysis

The results of the odor analysis indicate that the H_2S emitted from the landfill operations produces concentrations that are higher than the odor thresholds for one or more receptors in Parcels A and B during approximately 1.2 percent of the time over a one-year period. Although odor is a highly subjective matter, these results implicate that there could be odor related complaints if the land

[13] As recommended by the State of California Office of Environmental Health Hazard Assessment (OEHHA).

parcels are developed as residential. Furthermore, the odor impact is expected to be more noticeable during the flare maintenance periods when most of the LFG is being emitted from the landfill as fugitive emissions.

7.0 UNCERTAINTY ANALYSIS

ENVIRON has used appropriate engineering and scientific methods in the health risk analysis, nuisance dust, and odor impact analyses presented in this report. However, there is a great deal of uncertainty associated with the process of risk assessment. Uncertainty may be defined as what is not known and maybe reduced with further scientific studies. The uncertainty arises from lack of data in many areas necessitating the use of assumptions. Sources of uncertainty, which may either underestimate or overestimate the off-site impact, include:

- Emission estimates
- Air dispersion models
- Exposure estimates
- Toxicity data
- Wind gusts
- Odor thresholds

This section discusses the uncertainties associated with the sources outlined above. In general, a reasonably conservative approach was used throughout the risk assessment.

7.1 Emission Estimates

The emission estimates from the landfill are based on LFG modeling and composition analysis, emission factors, and engineering calculations. As discussed in Section 2.0 of the report, most of the emission sources at the landfill are fugitive. ENVIRON has used emission factors from SDAPCD and engineering equations from AP-42 to estimate emissions from these sources. The default emission factors from SDAPCD are generic in nature and not site-specific and hence introduce uncertainty in emission estimates. The equations from AP-42 used to estimate emissions contain certain parameters such as silt loading, moisture content, etc. that vary from site to site. ENVIRON has relied on the values available for municipal solid waste landfills in AP-42 to estimate the emissions. The use of non site-specific parameters introduces a level of uncertainty and may over /under estimate the emissions. The emissions from the on-site mobile sources and the delivery trucks have been estimated assuming that certain risk reduction measures that the CARB plans to implement in the future will be implemented by the landfill. This assumption introduces a level of

uncertainty in the emission estimates and under estimates the potential impact if the control measures are not implemented.

7.2 Air Dispersion Modeling

The ISCST3 model, the sir dispersion model used in this analysis, utilizes Gaussian dispersion equation and a number of assumptions to determine the ground level concentrations and depositions of various pollutants. Sensitivity analyses conducted on Gaussian dispersion models have concluded that it is unrealistic to expect the dispersion models to consistently predict real world pollutant concentrations, which introduces a level of uncertainty in the risk assessment.

7.3 Exposure Assessment

Conservative assumptions on exposure likely overestimate the risks for the residential receptors. For the health risk analysis it has been assumed that the residents are exposed for 24 hours per day, 365 days per year for 30 years at the same location. However, residents usually leave their houses on daily basis for work, shopping, errands, etc. USEPA's data indicate that the residents typically do not live in the same residence for 30 years. In addition, there is a natural range or variability in the human population in such properties as height, weight, and susceptibility to air toxicants.

7.4 Toxicity Data

Uncertainty in toxicity data include:

- The differences among species and human populations cannot be easily quantified and incorporated into risk analysis. Factors including metabolism, target site sensitivity, diet, immunological responses, and genetics may influence the response to toxic pollutants.

- Uncertainties in the assumptions underlying the dose-response level used.

- Extrapolation from large experimental doses, where, for example, other toxic effects mat compromise the assessment of carcinogenic potential, to usually much smaller environmental doses.

- Lack of data on absorption efficiencies for most compounds.

- Lack of knowledge about interactions from simultaneous exposures to a number of compounds, i.e., synergistic or antagonistic effects that could over or under estimate the risks.

Therefore, the risk estimates generated by this health analysis should not be interpreted as the expected rates of disease in the exposed population but rather as estimates of potential risk, based on current knowledge and a number of assumptions.

7.5 Wind Gusts

The nuisance dust analysis presented in this report represents dust deposition (i.e., dust fallout) over a one-year period. However, nuisance dust event is often caused by sudden wind gusts, which is completely unpredictable and was not evaluated in this report.

7.6 Odor Thresholds

Odor is a subjective matter; reactions to odor vary from one person to another significantly. The published odor thresholds often have a wide range for a particular chemical due to the variability in the individual responses. Other odor-causing chemicals may be emitted from the landfill, for which there are no established odor thresholds. The potential odor impacts from those chemicals are not evaluated in this report.

8.0 LANDFILL GAS MIGRATION QUALITATIVE EVALUATION

ENVIRON qualitatively evaluated the potential for LFG migration beyond the landfill boundary. The findings and the potential impacts to the future residents adjacent to the landfill are discussed in this section.

8.1 Background

The wastes at Otay Landfill contain significant portions of organic materials that produce a variety of gaseous products, generally referred to as LFG. Anaerobic bacteria thrive in the oxygen-free environment, resulting in the decomposition of the organic materials and the production of LFG. LFG is composed of a mixture of hundreds of different gases. By volume, LFG typically contains 45% to 60% methane and 40% to 60% carbon dioxide. LFG also includes small amounts of nitrogen, oxygen, ammonia, sulfides (such as hydrogen sulfide), hydrogen, carbon monoxide, and non-methane organic compounds (NMOCs) such as trichloroethylene, benzene, and vinyl chloride. Methane, which is less soluble in water and lighter than air, is likely to migrate out of the landfill. LFG is created under the landfill surface and generally moves away from the landfill, either by rising up through the landfill surface or migrating underground to surrounding areas. Three factors influence where LFG migrates to, permeability of the landfill and its surrounding areas, diffusion (LFG moves to areas with lower gas concentrations), and pressure (LFG moves to areas of lower pressure; changing weather conditions affect LFG migration).

LFG released from the landfill could potentially represent physical (explosion), chemical (substances in ambient or indoor air), and/or physiologic or quality of life (odor) public health concerns for those who live and work near the landfill. One of the main concerns with methane is that it poses explosion hazard. Methane is explosive between its Lower Explosion Limit (LEL) of 5% by volume and its Upper Explosion Limit (UEL) of 15% by volume. Because methane concentrations within the landfill are typically 50% (much higher than its UEL), methane is unlikely to explode within the landfill boundaries. As methane migrates and is diluted, however, the methane gas mixture may be within the explosive range. Also, oxygen is a key component for creating an explosion. The biological processes that produce methane below the landfill surface are anaerobic (or oxygen-depleted), which is an environment that does not support combustion or explosion. At the surface of the landfill, enough oxygen is present to support an explosion, but the methane gas usually diffuses into the ambient air to concentrations below the 5% LEL. In order to pose an explosion hazard, methane must migrate from the landfill and be present between its LEL and UEL.

8.2 LFG Migration Review

ENVIRON reviewed a report titled, *Landfill Gas Remediation Plan, Otay Sanitary Landfill, 1700 Maxwell Road, San Diego, California (stamped as Draft),* prepared by SCS Engineers, dated July 2002 (SCS, 2002). The Landfill Gas Remediation Plan was compiled to evaluate and develop a remediation plan for LFG issues at the Otay Sanitary Landfill (the Class III Landfill). The report stated that there was evidence of both deep and shallow off-site LFG migration in the vadose (unsaturated) zone beneath the landfill.

According to the SCS (2002) report, a lined cell was built in 1999 in the southern half of the landfill property, and was used in 2002 as the operating cell. Filling was next to be moved further east to a new lined cell that was to be built east of the cell being operated in 2002. SCS stated that in 2002, LFG control in the Class III landfill was comprised of two separately run systems. The first system was comprised of a network of approximately 90 to 100 extraction wells connected via header lines to a gas to energy facility that was operated by Covanta Energy. The second system was an LFG-fired flare that had been installed at the landfill in 2001. Nineteen multilevel perimeter probes had been installed at Otay Landfill (both Class I and III) to monitor migration of methane to the surrounding areas. The probes were monitored on a quarterly basis and were generally screened in the shallow (S), middle (M), and deep (D) zones. The surface of the landfill was also periodically monitored for the presence of surface emissions of methane.

According to the SCS (2002) report, methane migration had been observed in three perimeter probes, Probes G-2 and G-3 located on the southern perimeter of the landfill, and Probe GP-13 located on the northern perimeter of the landfill next to the southeastern corner of Parcel A (see Figure 8). For this probe, SCS noted that the pressure gradient pattern showed that the middle zone was the zone of greatest gas migration. SCS also noted that while no other probes detected methane, the reduced oxygen levels detected in many probes, including Probe GP-12 located at the southeastern side of Parcel A, were evidence of extensive LFG migration. SCS reviewed several alternatives as possible mitigation measures of LFG migration.

ENVIRON also reviewed a report titled, *Addendum to Landfill Gas Remediation Plan, Otay Sanitary Landfill, 1700 Maxwell Road, Chula Vista, California,* prepared by SCS, dated July 2003 (SCS, 2003). According to SCS, a further study of the LFG conditions at the landfill had been conducted by SCS after implementation of corrective measures recommended in SCS (2002). Methane concentrations at the deep zone of Probe GP-3 (Probe GP-D) were still above the regulatory limit (5% methane by volume). SCS noted that because the methane concentrations in Probe GP-13, which is located next to the southeastern corner of Parcel A, had consistently been

below regulatory concentration levels, there was no need to further address mitigation measures for this probe.

SCS (2003) concluded that health and safety was not an issue because the methane concentrations in the probes did not place the public or employees at risk as there were no structures, residences, or any other receptors near the boundary of the landfill. As part of its additional mitigation measures for LFG migration in the southern area of the landfill, SCS recommended, among others,

- The installation of additional multi-nested gas probes between Probes GP-2 and GP-3.
- The installation of a larger capacity flare and blower system as the existing system appeared to be inadequate to control LFG migration, surface emissions, and odor concurrently. SCS noted that the installation of a 5,000 standard cubic feet per minute (scfm) flare system was anticipated by the end of 2003.

Regarding surface emissions, SCS (2003) stated that recent data had indicated surface emissions of total organic compounds (TOCs) greater than 500 parts per million by volume (ppmv) along south and southeast of the landfill in various locations. According to SCS, although those exceedances had been corrected, they might be indicative of inadequate collection capacity.

ENVIRON reviewed four tables, titled *Otay Landfill Probe Data*, which were prepared by SCS Field Services. These four tables, which include five LFG monitoring episodes conducted between November 15, 2004 and February 28, 2005, are dated (i) 10/1/2004 through 12/31/2004; (ii) 12/01/2004 through 12/31/2004; (iii) 1/01/2005 through 1/31/2005; and (iv) 03/02/3005 through 02/28/2005. During the latest episode, 23 probes were monitored, of which 15 probes were screened in all 3 zones, and the remaining probes were screened in 1 or 2 zones. The probes adjacent to the Parcel A boundary are Probes GP-10, GP-11, and GP-12 on the eastern side of the parcel, Probe GP-13 at the southeastern corner of the parcel, and Probe GP-14 and GP-15 on the southern side. No probes were installed along the eastern side of Parcel B; the closest probe to this parcel is Probe GP-21, which is approximately 500 feet east of Parcel B. The tables show that during the five monitoring episodes, the measured methane concentrations were zero percent for all six probes that are along the Parcel A boundary and for Probe GP-21 that is the closest one to Parcel B.

8.3 Conclusions and Recommendations

LFG data reviewed by ENVIRON show that there are no current data to indicate that LFG migration is taking place onto Parcels A and B. However, the probe coverage is rather sparse, especially for Parcel B. Based on ENVIRON's experience with landfills at other locations, the potential for

migration of LFG generated as a result of decomposition of buried wastes at Otay Landfill to Parcels A and B, cannot be ruled out. To ascertain the presence of LFG at Parcels A and B, a soil gas survey would need to be performed at these two parcels with emphasis on the areas along the common boundaries of these parcels with the landfill.

As stated by SCS (2002), while no probes other than Probes GP-2, GP-3, and GP-13 detected methane, the reduced oxygen levels detected in many probes, including Probe GP-12 located at the southeastern side of Parcel A, were evidence of extensive LFG migration from the landfill. Further, ENVIRON notes that as long as LFG is generated in the landfill, there is the potential for the migration of LFG to the surrounding areas.

9.0 REFERENCES

American Industrial Hygiene Association (AIHA), *Odor Thresholds for Chemicals with Established Occupational Health Standards,* 1989.

California Air Resources Board (CARB), *DRAFT OFFROAD Model received from Archana Agrawal via email on April 15, 2005, and associated technical support documents MSC# 99-32* (http://www.arb.ca.gov/msei/off-road/pubs.htm).

California Air Resources Board (CARB), *EMFAC2002 Model,* (http://www.arb.ca.gov/msei/on-road/latest_version.htm)

California Air Resources Board (CARB), *Hotspots Analysis and Reporting Program (HARP) Version 1.1(Build 23.02.21)* (http://www.arb.ca.gov/toxics/harp/downloads.htm).

Calscience Environmental Laboratories, Inc., *Laboratory Analysis Report, Trace Metal Analysis,* April 19, 2002.

D. Bruce Turner, *Workbook of Atmospheric Dispersion Estimates: An Introduction to Dispersion Modeling,* 1994.

GeoLogics Associates, Inc. (GeoLogics), *Water Quality Monitoring Report, Semiannual (April 2004 through September 2004) Report, Otay Landfill,* October 28, 2004.

Office of Environmental Health Hazard Assessment (OEHHA), *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessment,* August 2003.

San Diego Air Pollution Control District (SDAPCD), *Landfill Operations*, October 1998.

SCS Engineers (SCS), *Addendum to Landfill Gas Remediation Plan, Otay Sanitary Landfill, 1700 Maxwell Road, Chula Vista, California*, prepared for Otay Landfill, Inc., September, 2003.

SCS Engineers (SCS), *Air Toxics Human Health Risk Assessment, Otay Ranch Company, Property Adjacent to Otay Landfill,* March 2004.

SCS Engineers (SCS), *Landfill Gas Remediation Plan, Otay Sanitary Landfill, 1700 Maxwell Road, San Diego, California (stamped as Draft),* prepared for Otay Landfill, Inc., July, 2002.

United States Environmental Protection Agency (USEPA), *Control of Emissions of Air Pollution from Non-road Diesel Engines and Fuel, EPA Final Rule, effective* August 30, 2004.

United States Environmental Protection Agency (USEPA), *Guideline on Air Quality Models,* April 2003.

URS Greiner Woodward Clyde (URS), *Closure and Post closure Maintenance Plan, Otay Class I Landfill*, March 24, 2000.

TABLES

Table 1A. List of Emission Sources and Source Parameters
Point Sources

Source ID	Description	E	N	Base H	Stack H	Temp	Velocity	Stack Dia
		meter	meter	meter	meter	K	m/sec	meter
DELIVER1	Delivery Truck 1	498359.8	3607258	117	3	622	42.8	0.15
DELIVER2	Delivery Truck 2	498444.2	3607105.4	101	3	622	42.8	0.15
DELIVER3	Delivery Truck 3	498751.3	3606921.7	80	3	622	42.8	0.15
DELIVER4	Delivery Truck 4	499022.8	3607251.3	192	3	622	42.8	0.15
ICENG	IC Engines	498931.6	3607515.5	122	6.1	677.6	50	1.37
FLARE	Flare	498904.1	3606777.8	68	15.24	1088.7	1.89	1.26
DOZER	Dozer	499208.9	3607217.1	192	3	622	31.2	0.2
COMPACT	Compactor	499147.9	3607282.9	192	3	622	50	0.15
SCRAPER	Scraper	499272.5	3607631.4	192	3	622	50	0.15
GRADER	Grader	499774.4	3607274.2	192	3	622	27.1	0.15
Gtruck1	Gas Truck 1	498427.4	3607126.4	102	0.61	622	0.001	0.15
Gtruck2	Gas Truck 2	499022.7	3607275.1	192	0.61	622	0.001	0.15

P:\C\City of Chula Vista\Sunbow HRA\Emission Calculations\[Source Parameters.xls]Point Sources

Table 1B. List of Emission Sources and Source Parameters
Area Sources

Source ID	Description	E	N	Base H	Release H	X length	Y length	Angle
		meter	meter	meter	meter	meter	meter	°
LANDFIL1	Landfill 1	498736.5	3606988.2	192	0	210	180	0
LANDFIL2	Landfill 2	499089.7	3607053.1	192	0	450	300	0
LANDFIL3	Landfill 3	499603.7	3607151.9	192	0	300	200	0
UNPAVED1	Unpaved Rd 1	499018.3	3607409	192	0	320	50	0
UNPAVED2	Unpaved Rd 2	498998.9	3607356.6	192	0	320	50	90
STOCK	Stock Pile	499161.1	3607505.4	192	0	700	220	0
PAVED1	Paved Rd 2	498337	3606988.7	93	0	20	200	0
PAVED2	Paved Rd 3	498335.5	3607222.6	119	0	100	50	0
PAVED3	Paved Rd 4	498388.6	3607188	111	0	20	200	140
PAVED4	Paved Rd 5	498525.1	3607028.2	89	0	20	110	140
PAVED5	Paved Rd 7	498837.3	3606935	80	0	20	100	90
PAVED6	Paved Rd 1	498337	3606783.2	70	0	20	200	0
PAVED7	Paved Rd 6	498625.5	3606935	80	0	20	200	90

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Table 2A. Cancer Risk by Emission Sources for the MEIR at Parcel A

Stack ID	Source Names	Inhalation	Dermal	Soil	Mother's Milk	Plants	Total Cancer Risk	Cancer risk (without Tier 4 reduction)*
90001	Delivery Truck 1 (Diesel)	3.08E-06	6.07E-10	3.08E-10	0.00E+00	6.32E-11	3.08E-06	3.08E-06
90002	Delivery Truck 2 (Diesel)	5.14E-07	1.01E-10	5.14E-11	0.00E+00	1.05E-11	5.14E-07	5.14E-07
90003	Delivery Truck 3 (Diesel)	1.42E-07	2.79E-11	1.42E-11	0.00E+00	2.91E-12	1.42E-07	1.42E-07
90004	Delivery Truck 4 (Diesel)	2.22E-07	4.38E-11	2.22E-11	0.00E+00	4.56E-12	2.22E-07	2.22E-07
90005	Delivery Truck 1 (Gasoline)	8.74E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-10	8.74E-10
90006	Delivery Truck 2 (Gasoline)	7.50E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-10	7.50E-10
90007	IC Engine	8.75E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-11	8.75E-11
90008	Flare	3.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-09	3.13E-09
90009	Dozer	1.06E-06	2.10E-10	1.07E-10	0.00E+00	2.19E-11	1.06E-06	1.41E-06
90010	Compactor	1.66E-08	1.68E-10	8.52E-11	0.00E+00	1.75E-11	1.68E-08	2.24E-08
90011	Scraper	9.92E-07	1.96E-10	9.95E-11	0.00E+00	2.04E-11	9.93E-07	1.32E-06
90012	Grader	2.85E-07	1.89E-10	9.60E-11	0.00E+00	1.97E-11	2.86E-07	3.81E-07
90013	Landfill 1	1.26E-07	5.64E-08	2.76E-08	0.00E+00	5.14E-09	2.15E-07	2.15E-07
90014	Landfill 2	3.53E-07	3.42E-08	1.67E-08	0.00E+00	3.12E-09	4.07E-07	4.07E-07
90015	Landfill 3	1.34E-07	1.29E-08	6.33E-09	0.00E+00	1.18E-09	1.54E-07	1.54E-07
90016	Unpaved Road 1	3.48E-08	1.61E-07	7.88E-08	0.00E+00	1.47E-08	2.89E-07	2.89E-07
90017	Unpaved Road 2	1.71E-08	7.91E-08	3.87E-08	0.00E+00	7.22E-09	1.42E-07	1.42E-07
90018	Stock Pile	1.31E-09	6.04E-09	2.95E-09	0.00E+00	5.51E-10	1.08E-08	1.08E-08
90019	Paved Road 1	3.67E-09	1.69E-08	8.29E-09	0.00E+00	1.55E-09	3.05E-08	3.05E-08
90020	Paved Road 2	8.82E-09	4.08E-08	1.99E-08	0.00E+00	3.72E-09	7.33E-08	7.33E-08
90021	Paved Road 3	1.65E-08	7.63E-08	3.74E-08	0.00E+00	6.96E-09	1.37E-07	1.37E-07
90022	Paved Road 4	6.23E-09	2.88E-08	1.41E-08	0.00E+00	2.63E-09	5.17E-08	5.17E-08
90023	Paved Road 5	2.17E-09	1.00E-08	4.90E-09	0.00E+00	9.13E-10	1.80E-08	1.80E-08
90024	Paved Road 6	1.98E-09	9.16E-09	4.48E-09	0.00E+00	8.35E-10	1.65E-08	1.65E-08
90025	Paved Road 7	1.11E-09	5.15E-09	2.52E-09	0.00E+00	4.70E-10	9.25E-09	9.25E-09
SUM		**7.02E-06**	**5.38E-07**	**2.63E-07**	**0.00E+00**	**4.91E-08**	**7.88E-06**	**8.66E-06**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Can_30yr_DerOEH_Rec184_AllSrc_AllCh_BySrc_2002A.xls]Table 2A no tier 4

* No Tier 4 emission reduction for offroad mobile vehicles (scraper, dozers, compactors, and grader).

Table 2B. Cancer Risk by Emission Sources for the MEIR at Parcel B

Stack ID	Source Names	Inhalation	Dermal	Soil	Mother's Milk	Plant	Total	Cancer risk (without Tier 4 reduction)*
90001	Delivery Truck 1 (Diesel)	3.34E-06	6.58E-10	3.34E-10	0.00E+00	6.85E-11	3.34E-06	3.34E-06
90002	Delivery Truck 2 (Diesel)	5.34E-07	1.05E-10	5.33E-11	0.00E+00	1.09E-11	5.34E-07	5.34E-07
90003	Delivery Truck 3 (Diesel)	1.44E-07	2.82E-11	1.43E-11	0.00E+00	2.94E-12	1.44E-07	1.44E-07
90004	Delivery Truck 4 (Diesel)	1.88E-07	3.72E-11	1.88E-11	0.00E+00	3.87E-12	1.89E-07	1.89E-07
90005	Delivery Truck 1 (Gasoline)	1.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-09	1.31E-09
90006	Delivery Truck 2 (Gasoline)	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-09	1.19E-09
90007	IC Engine	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-09	1.04E-09
90008	Flare	2.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-09	2.96E-09
90009	Dozer	1.11E-06	2.19E-10	1.11E-10	0.00E+00	2.28E-11	1.11E-06	1.48E-06
90010	Compactor	1.39E-08	1.41E-10	7.16E-11	0.00E+00	1.47E-11	1.42E-08	1.89E-08
90011	Scraper	3.01E-07	5.96E-11	3.02E-11	0.00E+00	6.20E-12	3.01E-07	4.01E-07
90012	Grader	3.47E-07	2.30E-10	1.17E-10	0.00E+00	2.40E-11	3.47E-07	4.63E-07
90013	Landfill 1	1.83E-07	8.19E-08	4.01E-08	0.00E+00	7.47E-09	3.12E-07	3.12E-07
90014	Landfill 2	4.70E-07	4.55E-08	2.23E-08	0.00E+00	4.15E-09	5.42E-07	5.42E-07
90015	Landfill 3	1.36E-07	1.32E-08	6.44E-09	0.00E+00	1.20E-09	1.57E-07	1.57E-07
90016	Unpaved Road 1	1.91E-08	8.84E-08	4.32E-08	0.00E+00	8.06E-09	1.59E-07	1.59E-07
90017	Unpaved Road 2	2.86E-08	1.32E-07	6.47E-08	0.00E+00	1.21E-08	2.37E-07	2.37E-07
90018	Stock Pile	3.07E-10	1.42E-09	6.94E-10	0.00E+00	1.29E-10	2.55E-09	2.55E-09
90019	Paved Road 1	1.43E-09	6.63E-09	3.25E-09	0.00E+00	6.05E-10	1.19E-08	1.19E-08
90020	Paved Road 2	3.22E-09	1.49E-08	7.28E-09	0.00E+00	1.36E-09	2.67E-08	2.67E-08
90021	Paved Road 3	1.59E-08	7.37E-08	3.61E-08	0.00E+00	6.72E-09	1.32E-07	1.32E-07
90022	Paved Road 4	3.52E-09	1.63E-08	7.97E-09	0.00E+00	1.49E-09	2.93E-08	2.93E-08
90023	Paved Road 5	1.19E-09	5.50E-09	2.69E-09	0.00E+00	5.02E-10	9.89E-09	9.89E-09
90024	Paved Road 6	1.58E-09	7.31E-09	3.58E-09	0.00E+00	6.67E-10	1.31E-08	1.31E-08
90025	Paved Road 7	1.35E-09	6.26E-09	3.06E-09	0.00E+00	5.71E-10	1.12E-08	1.12E-08
SUM		**6.84E-06**	**4.94E-07**	**2.42E-07**	**0.00E+00**	**4.51E-08**	**7.62E-06**	**8.22E-06**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Can_30yr_DerOEH_Rec332_AllSrc_AllCh_BySrc_2002B.xls]Table 2B no Tier 4

* No Tier 4 emission reduction for offroad mobile vehicles (scraper, dozers, compactors, and grader).

Table 3A. Cancer Risk by Chemicals for the MEIR at Parcel A

Chemicals	Inhalation	Dermal	Soil	Mother's Milk	Plants	Total
Diesel, engine exhaust, PM	6.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-06
Formaldehyde	5.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-08
Benzene	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-07
Acetaldehyde	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-08
Styrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-Butadiene	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-08
Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	2.69E-10	4.29E-11	1.42E-09	0.00E+00	1.01E-09	2.74E-09
Manganese	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mercury	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nickel	6.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-09
Arsenic	8.07E-08	5.38E-07	2.62E-07	0.00E+00	4.81E-08	9.29E-07
Cadmium	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-08
Chromium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon tetrachloride	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-09
Isopropyl alcohol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroform	2.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-10
Methyl chloroform	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl bromide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl chloride	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-07
Methylene chloride	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-08
Carbon disulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Bromodichloromethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1-Dichloroethane	4.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-09
Vinylidene Chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dichlorofluoromethane (Freon 12)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorodifluoromethane (Freon 22)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichlorofluoromethane (Freon 11)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorinated flourocarbon (CFC-113)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2-Dichloropropane	4.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-09
Methyl ethyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2-Trichloroethane	6.88E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-10
Trichloroethylene	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-08

Table 3A. Cancer Risk by Chemicals for the MEIR at Parcel A

Chemicals	Inhalation	Dermal	Soil	Mother's Milk	Plants	Total
1,1,2,2-Tetrachloroethane	3.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-09
Hexachlorobutadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2,4-Trimethylbenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzyl chloride	5.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-09
p-Dichlorobenzene	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-07
Ethylene dibromide	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-09
Ethylene dichloride	8.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-09
Acrylonitrile	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-08
Methyl isobutyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hexane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2,4-Trichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Perchloroethylene	9.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-08
Carbonyl sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2-Dichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-Dichloropropene	7.37E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-10
Xylenes	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hydrochloric Acid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Barium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beryllium	5.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-09
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zinc	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Selenium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chromium (hexavalent)	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-08
SUM	**7.02E-06**	**5.38E-07**	**2.63E-07**	**0.00E+00**	**4.91E-08**	**7.88E-06**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Can_30yr_DerOEH_Rec184_AllSrc_AllCh_ByRec_ByChem_2002A.xls]Table 3A

Table 3B. Cancer Risk by Chemicals for the MEIR at Parcel B

Chemicals	Inhalation	Dermal	Soil	Mother's Milk	Plants	Total
Diesel, engine exhaust, PM	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06
Formaldehyde	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-08
Benzene	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-07
Acetaldehyde	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-08
Styrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-Butadiene	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-08
Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	2.47E-10	3.95E-11	1.30E-09	0.00E+00	9.28E-10	2.52E-09
Manganese	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mercury	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nickel	5.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-09
Arsenic	7.41E-08	4.94E-07	2.41E-07	0.00E+00	4.42E-08	8.53E-07
Cadmium	9.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-09
Chromium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon tetrachloride	3.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-09
Isopropyl alcohol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroform	2.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-10
Methyl chloroform	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl bromide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl chloride	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-07
Methylene chloride	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-08
Carbon disulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Bromodichloromethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1-Dichloroethane	6.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-09
Vinylidene Chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dichlorofluoromethane (Freon 12)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorodifluoromethane (Freon 22)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichlorofluoromethane (Freon 11)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorinated flourocarbon (CFC-113)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2-Dichloropropane	5.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-09
Methyl ethyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2-Trichloroethane	8.84E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-10
Trichloroethylene	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-08

Table 3B. Cancer Risk by Chemicals for the MEIR at Parcel B

Chemicals	Inhalation	Dermal	Soil	Mother's Milk	Plants	Total
1,1,2,2-Tetrachloroethane	3.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-09
Hexachlorobutadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2,4-Trimethylbenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzyl chloride	6.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-09
p-Dichlorobenzene	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-07
Ethylene dibromide	5.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-09
Ethylene dichloride	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-08
Acrylonitrile	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-08
Methyl isobutyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hexane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2,4-Trichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Perchloroethylene	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-07
Carbonyl sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2-Dichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-Dichloropropene	9.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-10
Xylenes	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hydrochloric Acid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Barium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beryllium	5.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-09
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zinc	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Selenium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chromium (hexavalent)	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-08
SUM	**6.84E-06**	**4.94E-07**	**2.42E-07**	**0.00E+00**	**4.51E-08**	**7.62E-06**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Can_30yr_DerOEH_Rec332_AllSrc_AllCh_ByRec_ByChem_2002B.xls]Table 3B

Table 4A. Chronic Hazard Index by Sources for MEIR at Parcel A

Stack ID	Source Names	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
90001	Delivery Truck 1 (Diesel)	7.44E-06	1.36E-04	0.00E+00	1.80E-05	0.00E+00	2.31E-03	1.71E-07	1.11E-04	2.39E-04	4.48E-06	6.16E-03	5.17E-06	2.12E-05	**0.0062**
90002	Delivery Truck 2 (Diesel)	1.24E-06	2.27E-05	0.00E+00	3.00E-06	0.00E+00	3.86E-04	2.85E-08	1.86E-05	3.98E-05	7.48E-07	1.03E-03	8.63E-07	3.53E-06	**0.0010**
90003	Delivery Truck 3 (Diesel)	3.42E-07	6.26E-06	0.00E+00	8.27E-07	0.00E+00	1.06E-04	7.84E-09	5.11E-06	1.10E-05	2.06E-07	2.84E-04	2.38E-07	9.73E-07	**0.00028**
90004	Delivery Truck 4 (Diesel)	5.37E-07	9.82E-06	0.00E+00	1.30E-06	0.00E+00	1.67E-04	1.23E-08	8.02E-06	1.72E-05	3.23E-07	4.45E-04	3.73E-07	1.53E-06	**0.00045**
90005	Delivery Truck 1 (Gasoline)	0.00E+00	5.21E-07	0.00E+00	3.37E-07	0.00E+00	2.37E-05	2.30E-08	0.00E+00	0.00E+00	2.44E-07	2.50E-05	0.00E+00	1.07E-06	**0.000025**
90006	Delivery Truck 2 (Gasoline)	0.00E+00	4.48E-07	0.00E+00	2.89E-07	0.00E+00	2.04E-05	1.98E-08	0.00E+00	0.00E+00	2.09E-07	2.14E-05	0.00E+00	9.21E-07	**0.000021**
90007	IC Engine	9.48E-09	6.41E-06	0.00E+00	2.93E-07	1.10E-08	2.60E-09	1.52E-07	5.77E-06	5.91E-06	6.15E-08	9.23E-05	0.00E+00	1.72E-08	**0.000092**
90008	Flare	3.40E-07	2.03E-04	0.00E+00	1.05E-05	3.92E-07	9.31E-08	5.46E-06	1.82E-04	1.86E-04	2.20E-06	3.30E-03	0.00E+00	6.18E-07	**0.0033**
90009	Dozer	2.58E-06	4.61E-05	0.00E+00	5.15E-06	0.00E+00	6.42E-04	5.91E-08	3.85E-05	8.26E-05	1.24E-06	1.95E-03	1.79E-06	6.25E-06	**0.0020**
90010	Compactor	2.06E-06	3.69E-05	0.00E+00	4.22E-06	0.00E+00	5.29E-04	4.72E-08	3.08E-05	6.60E-05	1.03E-06	6.38E-04	1.43E-06	5.10E-06	**0.00064**
90011	Scraper	2.40E-06	4.30E-05	0.00E+00	4.85E-06	0.00E+00	6.05E-04	5.51E-08	3.59E-05	7.71E-05	1.17E-06	1.83E-03	1.67E-06	5.88E-06	**0.0018**
90012	Grader	2.32E-06	4.10E-05	0.00E+00	4.19E-06	0.00E+00	5.12E-04	5.32E-08	3.47E-05	7.44E-05	9.91E-07	9.24E-04	1.61E-06	5.18E-06	**0.00092**
90013	Landfill 1	7.05E-04	1.89E-03	0.00E+00	5.91E-04	1.42E-05	3.38E-06	2.04E-04	2.03E-04	3.28E-04	7.99E-05	5.58E-04	4.81E-04	1.15E-04	**0.0019**
90014	Landfill 2	4.57E-04	2.69E-03	0.00E+00	1.28E-03	4.33E-05	1.03E-05	6.06E-04	4.44E-04	9.42E-04	2.43E-04	1.45E-03	2.91E-04	1.24E-04	**0.0027**
90015	Landfill 3	1.73E-04	1.02E-03	0.00E+00	4.86E-04	1.64E-05	3.89E-06	2.29E-04	1.68E-04	3.57E-04	9.20E-05	5.48E-04	1.10E-04	4.71E-05	**0.0010**
90016	Unpaved Road 1	1.98E-03	3.59E-03	0.00E+00	6.02E-04	0.00E+00	0.00E+00	1.61E-05	2.03E-04	6.55E-05	0.00E+00	2.96E-04	1.37E-03	2.65E-04	**0.0036**
90017	Unpaved Road 2	9.72E-04	1.76E-03	0.00E+00	2.96E-04	0.00E+00	0.00E+00	7.93E-06	9.99E-05	3.22E-05	0.00E+00	1.45E-04	6.74E-04	1.30E-04	**0.0018**
90018	Stock Pile	7.42E-05	1.34E-04	0.00E+00	2.26E-05	0.00E+00	0.00E+00	6.05E-07	7.62E-06	2.45E-06	0.00E+00	1.11E-05	5.15E-05	9.92E-06	**0.00013**
90019	Paved Road 1	2.08E-04	3.77E-04	0.00E+00	6.34E-05	0.00E+00	0.00E+00	1.70E-06	2.14E-05	6.89E-06	0.00E+00	3.11E-05	1.44E-04	2.79E-05	**0.00038**
90020	Paved Road 2	5.01E-04	9.08E-04	0.00E+00	1.52E-04	0.00E+00	0.00E+00	4.09E-06	5.15E-05	1.66E-05	0.00E+00	7.49E-05	3.47E-04	6.70E-05	**0.00091**
90021	Paved Road 3	9.38E-04	1.70E-03	0.00E+00	2.85E-04	0.00E+00	0.00E+00	7.65E-06	9.64E-05	3.10E-05	0.00E+00	1.40E-04	6.51E-04	1.25E-04	**0.0017**
90022	Paved Road 4	3.54E-04	6.41E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00	2.88E-06	3.63E-05	1.17E-05	0.00E+00	5.29E-05	2.45E-04	4.73E-05	**0.00064**
90023	Paved Road 5	1.23E-04	2.23E-04	0.00E+00	3.74E-05	0.00E+00	0.00E+00	1.00E-06	1.26E-05	4.07E-06	0.00E+00	1.84E-05	8.53E-05	1.65E-05	**0.00022**
90024	Paved Road 6	1.12E-04	2.04E-04	0.00E+00	3.42E-05	0.00E+00	0.00E+00	9.18E-07	1.16E-05	3.72E-06	0.00E+00	1.68E-05	7.80E-05	1.50E-05	**0.00020**
90025	Paved Road 7	6.32E-05	1.15E-04	0.00E+00	1.92E-05	0.00E+00	0.00E+00	5.16E-07	6.50E-06	2.09E-06	0.00E+00	9.45E-06	4.39E-05	8.46E-06	**0.00012**
SUM		6.68E-03	1.58E-02	0.00E+00	4.04E-03	7.43E-05	5.32E-03	1.09E-03	1.83E-03	2.60E-03	4.28E-04	2.00E-02	4.59E-03	1.05E-03	**0.02**

es\[Rep_Chr_Res_DerOEH_Rec184_AllSrc_AllCh_BySrc_2002A.xls]Table 4A

Table 4B. Chronic Hazard Index by Sources for MEIR at Parcel B

Stack ID	Source Names	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
90001	Delivery Truck 1 (Diesel)	1.23E-06	2.26E-05	0.00E+00	2.98E-06	0.00E+00	3.83E-04	2.83E-08	1.84E-05	3.96E-05	7.43E-07	1.02E-03	8.57E-07	3.51E-06	**0.0010**
90002	Delivery Truck 2 (Diesel)	1.96E-06	3.58E-05	0.00E+00	4.73E-06	0.00E+00	6.08E-04	4.49E-08	2.92E-05	6.27E-05	1.18E-06	1.62E-03	1.36E-06	5.57E-06	**0.0016**
90003	Delivery Truck 3 (Diesel)	1.35E-06	2.46E-05	0.00E+00	3.25E-06	0.00E+00	4.18E-04	3.09E-08	2.01E-05	4.31E-05	8.10E-07	1.12E-03	9.35E-07	3.83E-06	**0.0011**
90004	Delivery Truck 4 (Diesel)	3.07E-07	5.62E-06	0.00E+00	7.43E-07	0.00E+00	9.55E-05	7.04E-09	4.59E-06	9.85E-06	1.85E-07	2.54E-04	2.13E-07	8.74E-07	**0.00025**
90005	Delivery Truck 1 (Gasoline)	0.00E+00	6.23E-07	0.00E+00	4.02E-07	0.00E+00	2.83E-05	2.75E-08	0.00E+00	0.00E+00	2.91E-07	2.98E-05	0.00E+00	1.28E-06	**0.000030**
90006	Delivery Truck 2 (Gasoline)	0.00E+00	5.46E-07	0.00E+00	3.53E-07	0.00E+00	2.49E-05	2.41E-08	0.00E+00	0.00E+00	2.56E-07	2.62E-05	0.00E+00	1.12E-06	**0.000026**
90007	IC Engine	5.28E-08	3.57E-05	0.00E+00	1.63E-06	6.09E-08	1.45E-08	8.47E-07	3.21E-05	3.29E-05	3.42E-07	5.13E-04	0.00E+00	9.59E-08	**0.00051**
90008	Flare	7.81E-07	4.68E-04	0.00E+00	2.41E-05	9.02E-07	2.14E-07	1.26E-05	4.18E-04	4.29E-04	5.06E-06	7.60E-03	0.00E+00	1.42E-06	**0.0076**
90009	Dozer	1.96E-06	3.51E-05	0.00E+00	3.93E-06	0.00E+00	4.90E-04	4.50E-08	2.94E-05	6.30E-05	9.48E-07	1.49E-03	1.37E-06	4.77E-06	**0.0015**
90010	Compactor	1.39E-06	2.50E-05	0.00E+00	2.86E-06	0.00E+00	3.58E-04	3.19E-08	2.08E-05	4.47E-05	6.94E-07	4.32E-04	9.68E-07	3.45E-06	**0.00043**
90011	Scraper	6.99E-07	1.25E-05	0.00E+00	1.41E-06	0.00E+00	1.76E-04	1.60E-08	1.05E-05	2.24E-05	3.41E-07	5.31E-04	4.86E-07	1.71E-06	**0.00053**
90012	Grader	1.87E-06	3.30E-05	0.00E+00	3.37E-06	0.00E+00	4.12E-04	4.28E-08	2.79E-05	5.98E-05	7.97E-07	7.43E-04	1.30E-06	4.16E-06	**0.00074**
90013	Landfill 1	2.49E-03	6.68E-03	0.00E+00	2.09E-03	5.03E-05	1.19E-05	7.20E-04	7.18E-04	1.16E-03	2.82E-04	1.97E-03	1.70E-03	4.07E-04	**0.0067**
90014	Landfill 2	7.04E-04	4.13E-03	0.00E+00	1.98E-03	6.66E-05	1.58E-05	9.32E-04	6.83E-04	1.45E-03	3.74E-04	2.22E-03	4.48E-04	1.91E-04	**0.0041**
90015	Landfill 3	1.76E-04	1.03E-03	0.00E+00	4.95E-04	1.67E-05	3.96E-06	2.33E-04	1.71E-04	3.63E-04	9.36E-05	5.57E-04	1.12E-04	4.79E-05	**0.0010**
90016	Unpaved Road 1	1.09E-03	1.98E-03	0.00E+00	3.33E-04	0.00E+00	0.00E+00	8.93E-06	1.13E-04	3.62E-05	0.00E+00	1.64E-04	7.60E-04	1.47E-04	**0.0020**
90017	Unpaved Road 2	1.49E-03	2.71E-03	0.00E+00	4.55E-04	0.00E+00	0.00E+00	1.22E-05	1.54E-04	4.94E-05	0.00E+00	2.23E-04	1.04E-03	2.00E-04	**0.0027**
90018	Stock Pile	1.53E-05	2.77E-05	0.00E+00	4.65E-06	0.00E+00	0.00E+00	1.25E-07	1.57E-06	5.05E-07	0.00E+00	2.28E-06	1.06E-05	2.04E-06	**0.000028**
90019	Paved Road 1	2.51E-04	4.56E-04	0.00E+00	7.65E-05	0.00E+00	0.00E+00	2.05E-06	2.58E-05	8.32E-06	0.00E+00	3.76E-05	1.74E-04	3.36E-05	**0.00046**
90020	Paved Road 2	5.79E-03	1.05E-02	0.00E+00	1.76E-03	0.00E+00	0.00E+00	4.73E-05	5.96E-04	1.92E-04	0.00E+00	8.66E-04	4.02E-03	7.75E-04	**0.011**
90021	Paved Road 3	5.84E-04	1.06E-03	0.00E+00	1.78E-04	0.00E+00	0.00E+00	4.76E-06	6.00E-05	1.93E-05	0.00E+00	8.73E-05	4.05E-04	7.81E-05	**0.0011**
90022	Paved Road 4	3.57E-04	6.47E-04	0.00E+00	1.09E-04	0.00E+00	0.00E+00	2.91E-06	3.67E-05	1.18E-05	0.00E+00	5.33E-05	2.48E-04	4.77E-05	**0.00065**
90023	Paved Road 5	2.39E-04	4.33E-04	0.00E+00	7.27E-05	0.00E+00	0.00E+00	1.95E-06	2.45E-05	7.90E-06	0.00E+00	3.57E-05	1.66E-04	3.19E-05	**0.00043**
90024	Paved Road 6	3.36E-04	6.10E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00	2.74E-06	3.46E-05	1.11E-05	0.00E+00	5.03E-05	2.33E-04	4.50E-05	**0.00061**
90025	Paved Road 7	2.08E-04	3.77E-04	0.00E+00	6.33E-05	0.00E+00	0.00E+00	1.70E-06	2.14E-05	6.88E-06	0.00E+00	3.11E-05	1.44E-04	2.78E-05	**0.00038**
SUM		1.38E-02	3.14E-02	0.00E+00	7.77E-03	1.35E-04	3.03E-03	1.98E-03	3.25E-03	4.12E-03	7.62E-04	2.17E-02	9.47E-03	2.07E-03	**0.031**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Chr_Res_DerOEH_Rec470_AllSrc_AllCh_BySrc_2002B.xls]Table 4B

Table 5A. Chronic Hazard Index by Chemicals for the MEIR at Parcel A

Chemicals	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
Diesel, engine exhaust, PM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-03	0.00E+00	0.00E+00	**0.0070**
Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03	0.00E+00	0.00E+00	**0.0053**
Benzene	0.00E+00	1.53E-04	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	**0.00015**
Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-04	0.00E+00	0.00E+00	**0.00088**
Styrene	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000028**
1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	**0.000011**
Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	**0.000033**
Lead	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Manganese	0.00E+00	9.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.010**
Mercury	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0013**
Nickel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	8.87E-04	0.00E+00	8.87E-04	**0.00089**
Arsenic	6.60E-03	2.01E-03	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03	0.00E+00	**0.0066**
Cadmium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	2.16E-04	0.00E+00	0.00E+00	**0.00048**
Chromium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Carbon tetrachloride	0.00E+00	2.87E-06	0.00E+00	2.87E-06	0.00E+00	0.00E+00	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000029**
Isopropyl alcohol	0.00E+00	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000075**
Chloroform	0.00E+00	0.00E+00	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00000022**
Methyl chloroform	0.00E+00	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00000057**
Methyl bromide	0.00E+00	1.06E-05	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	**0.000011**
Methyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethyl chloride	0.00E+00	0.00E+00	0.00E+00	2.37E-08	0.00E+00	0.00E+00	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000000024**
Vinyl chloride	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	**0.00012**
Methylene chloride	6.44E-05	6.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000064**
Carbon disulfide	0.00E+00	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-06	0.00E+00	0.00E+00	0.00E+00	**0.0000011**
Bromodichloromethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,1-Dichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Vinylidene Chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000011**
Dichlorofluoromethane (Freon 12)	0.00E+00	9.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000096**
Chlorodifluoromethane (Freon 22)	0.00E+00	0.00E+00	0.00E+00	8.08E-08	8.08E-08	0.00E+00	0.00E+00	0.00E+00	8.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000000081**
Trichlorofluoromethane (Freon 11)	0.00E+00	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000029**
Chlorinated flourocarbon (CFC-113)	0.00E+00	7.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00000076**
1,2-Dichloropropane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Methyl ethyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	**0.00016**
1,1,2-Trichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Trichloroethylene	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000018**
1,1,2,2-Tetrachloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Hexachlorobutadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2,4-Trimethylbenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	7.43E-05	7.43E-05	0.00E+00	7.43E-05	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000074**
Benzyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	**0.000016**
p-Dichlorobenzene	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	3.25E-05	0.00E+00	3.25E-05	0.00E+00	0.00E+00	**0.000033**
Ethylene dibromide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	**0.00013**
Ethylene dichloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000019**
Acrylonitrile	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	**0.000025**
Methyl isobutyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Toluene	0.00E+00	1.65E-03	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	**0.0017**
Chlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-06	0.00E+00	1.36E-06	1.36E-06	0.00E+00	0.00E+00	0.00E+00	**0.0000014**
Hexane	0.00E+00	7.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000078**

Table 5A. Chronic Hazard Index by Chemicals for the MEIR at Parcel A

Chemicals	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	**MAX**
1,2,4-Trichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Perchloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00079**
Carbonyl sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2-Dichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,3-Dichloropropene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Xylenes	0.00E+00	6.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04	0.00E+00	0.00E+00	**0.00064**
Hydrochloric Acid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	0.00E+00	0.00E+00	**0.0034**
Barium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Beryllium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00062**
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	**0.000032**
Zinc	9.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-06	0.00E+00	9.92E-06	**0.000010**
Selenium	8.24E-07	8.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-07	0.00E+00	0.00E+00	0.00E+00	8.24E-07	0.00E+00	0.00E+00	**0.00000082**
Chromium (hexavalent)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-06	0.00E+00	1.19E-06	**0.0000012**
SUM	6.68E-03	1.58E-02	0.00E+00	4.04E-03	7.43E-05	5.32E-03	1.09E-03	1.83E-03	2.60E-03	4.28E-04	2.00E-02	4.59E-03	1.05E-03	**0.020**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Chr_Res_DerOEH_Rec184_AllSrc_AllCh_ByRec_ByChem_2002A.xls]Table 5A

Table 5B. Chronic Hazard Index by Chemicals for MEIR at Parcel B

Chemicals	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
Diesel, engine exhaust, PM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-03	0.00E+00	0.00E+00	**0.0037**
Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	**0.0030**
Benzene	0.00E+00	2.33E-04	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	**0.00023**
Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	**0.00049**
Styrene	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00005**
1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00E+00	0.00E+00	0.00E+00	**0.0000062**
Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	**0.000040**
Lead	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Manganese	0.00E+00	2.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.020**
Mercury	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0021**
Nickel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	1.81E-03	**0.0018**
Arsenic	1.36E-02	4.15E-03	0.00E+00	4.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-03	0.00E+00	**0.014**
Cadmium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-04	0.00E+00	2.29E-04	0.00E+00	0.00E+00	**0.00051**
Chromium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Carbon tetrachloride	0.00E+00	5.21E-06	0.00E+00	5.21E-06	0.00E+00	0.00E+00	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000052**
Isopropyl alcohol	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000014**
Chloroform	0.00E+00	0.00E+00	0.00E+00	4.04E-07	0.00E+00	0.00E+00	4.04E-07	0.00E+00	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00000040**
Methyl chloroform	0.00E+00	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000010**
Methyl bromide	0.00E+00	1.93E-05	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	**0.000019**
Methyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethyl chloride	0.00E+00	0.00E+00	0.00E+00	4.29E-08	0.00E+00	0.00E+00	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000000043**
Vinyl chloride	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	**0.00022**
Methylene chloride	1.17E-04	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00012**
Carbon disulfide	0.00E+00	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-06	0.00E+00	0.00E+00	0.00E+00	**0.0000021**
Bromodichloromethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,1-Dichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Vinylidene Chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000020**
Dichlorofluoromethane (Freon 12)	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000017**
Chlorodifluoromethane (Freon 22)	0.00E+00	0.00E+00	0.00E+00	1.46E-07	1.46E-07	0.00E+00	0.00E+00	0.00E+00	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00000015**
Trichlorofluoromethane (Freon 11)	0.00E+00	5.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000053**
Chlorinated flourocarbon (CFC-113)	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000014**
1,2-Dichloropropane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Methyl ethyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	**0.00029**
1,1,2-Trichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Trichloroethylene	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000032**
1,1,2,2-Tetrachloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Hexachlorobutadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2,4-Trimethylbenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	1.34E-04	1.34E-04	0.00E+00	1.34E-04	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00013**
Benzyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	**0.000029**
p-Dichlorobenzene	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	5.88E-05	0.00E+00	5.88E-05	0.00E+00	0.00E+00	**0.000059**
Ethylene dibromide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	**0.00024**
Ethylene dichloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000034**
Acrylonitrile	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	**0.000045**
Methyl isobutyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Toluene	0.00E+00	2.99E-03	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	**0.0030**
Chlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-06	0.00E+00	2.46E-06	2.46E-06	0.00E+00	0.00E+00	0.00E+00	**0.0000025**

Table 5B. Chronic Hazard Index by Chemicals for MEIR at Parcel B

Chemicals	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
Hexane	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.000014**
1,2,4-Trichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Perchloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0014**
Carbonyl sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2-Dichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,3-Dichloropropene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Xylenes	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	**0.0012**
Hydrochloric Acid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-03	0.00E+00	0.00E+00	**0.0081**
Barium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Beryllium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0013**
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05	0.00E+00	0.00E+00	**0.000066**
Zinc	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	2.05E-05	**0.000021**
Selenium	1.70E-06	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-06	0.00E+00	0.00E+00	0.00E+00	1.70E-06	0.00E+00	0.00E+00	**0.0000017**
Chromium (hexavalent)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-06	0.00E+00	2.47E-06	**0.0000025**
SUM	1.38E-02	3.14E-02	0.00E+00	7.77E-03	1.35E-04	3.03E-03	1.98E-03	3.25E-03	4.12E-03	7.62E-04	2.17E-02	9.47E-03	2.07E-03	**0.031**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Chr_Res_DerOEH_Rec470_AllSrc_AllCh_ByRec_ByChem_2002B.xls]Table 5B

Table 6A. Acute Hazard Index by Sources for MEIR at Parcel A

Stack ID	Source Names	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
90001	Delivery Truck 1 (Diesel)	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	1.42E-02	0.00E+00	1.43E-02	0.00E+00	2.03E-04	1.42E-02	0.00E+00	9.87E-05	**0.014**
90002	Delivery Truck 2 (Diesel)	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	1.30E-02	0.00E+00	1.31E-02	0.00E+00	1.49E-04	1.30E-02	0.00E+00	6.06E-05	**0.013**
90003	Delivery Truck 3 (Diesel)	0.00E+00	0.00E+00	0.00E+00	9.08E-05	0.00E+00	1.08E-02	0.00E+00	1.08E-02	0.00E+00	9.08E-05	1.08E-02	0.00E+00	3.15E-05	**0.011**
90004	Delivery Truck 4 (Diesel)	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	1.65E-02	0.00E+00	1.65E-02	0.00E+00	1.37E-04	1.65E-02	0.00E+00	4.72E-05	**0.017**
90005	Delivery Truck 1 (Gasoline)	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	4.46E-02	0.00E+00	1.58E-03	0.00E+00	2.00E-05	4.46E-02	0.00E+00	2.00E-05	**0.045**
90006	Delivery Truck 2 (Gasoline)	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	2.35E-02	0.00E+00	8.30E-04	0.00E+00	1.06E-05	2.35E-02	0.00E+00	1.06E-05	**0.024**
90007	IC Engine	0.00E+00	1.03E-07	0.00E+00	5.66E-07	0.00E+00	1.65E-05	2.38E-10	2.49E-08	0.00E+00	5.66E-07	1.65E-05	0.00E+00	2.49E-08	**0.000017**
90008	Flare	0.00E+00	5.12E-05	0.00E+00	2.78E-04	0.00E+00	8.32E-03	5.57E-08	5.81E-06	0.00E+00	2.78E-04	8.32E-03	0.00E+00	5.81E-06	**0.0083**
90009	Dozer	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	1.63E-01	0.00E+00	1.64E-01	0.00E+00	1.22E-03	1.63E-01	0.00E+00	2.82E-04	**0.16**
90010	Compactor	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	1.46E-01	0.00E+00	1.46E-01	0.00E+00	1.44E-03	1.46E-01	0.00E+00	4.51E-04	**0.15**
90011	Scraper	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	1.14E-01	0.00E+00	1.14E-01	0.00E+00	1.02E-03	1.14E-01	0.00E+00	3.18E-04	**0.11**
90012	Grader	0.00E+00	0.00E+00	0.00E+00	6.14E-04	0.00E+00	6.28E-02	0.00E+00	6.30E-02	0.00E+00	6.14E-04	6.28E-02	0.00E+00	1.74E-04	**0.063**
90013	Landfill 1	0.00E+00	5.04E-04	0.00E+00	1.26E-03	0.00E+00	1.98E-03	2.60E-07	9.85E-05	0.00E+00	1.26E-03	2.06E-03	0.00E+00	2.71E-05	**0.0021**
90014	Landfill 2	0.00E+00	2.10E-03	0.00E+00	6.22E-03	0.00E+00	8.25E-03	1.40E-06	4.42E-04	0.00E+00	6.22E-03	8.58E-03	0.00E+00	1.45E-04	**0.0086**
90015	Landfill 3	0.00E+00	6.63E-04	0.00E+00	1.66E-03	0.00E+00	2.61E-03	3.43E-07	1.30E-04	0.00E+00	1.66E-03	2.72E-03	0.00E+00	3.57E-05	**0.0027**
90016	Unpaved Road 1	0.00E+00	0.00E+00	0.00E+00	3.96E-02	0.00E+00	0.00E+00	0.00E+00	3.01E-03	0.00E+00	3.96E-02	3.32E-03	0.00E+00	0.00E+00	**0.040**
90017	Unpaved Road 2	0.00E+00	0.00E+00	0.00E+00	2.55E-02	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	2.55E-02	2.54E-03	0.00E+00	0.00E+00	**0.026**
90018	Stock Pile	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	4.33E-04	3.69E-05	0.00E+00	0.00E+00	**0.00043**
90019	Paved Road 1	0.00E+00	0.00E+00	0.00E+00	2.18E-02	0.00E+00	0.00E+00	0.00E+00	9.97E-04	0.00E+00	2.18E-02	1.10E-03	0.00E+00	0.00E+00	**0.022**
90020	Paved Road 2	0.00E+00	0.00E+00	0.00E+00	3.65E-02	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	3.65E-02	1.38E-03	0.00E+00	0.00E+00	**0.037**
90021	Paved Road 3	0.00E+00	0.00E+00	0.00E+00	3.35E-02	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	3.35E-02	1.56E-03	0.00E+00	0.00E+00	**0.034**
90022	Paved Road 4	0.00E+00	0.00E+00	0.00E+00	1.69E-02	0.00E+00	0.00E+00	0.00E+00	6.25E-04	0.00E+00	1.69E-02	6.91E-04	0.00E+00	0.00E+00	**0.017**
90023	Paved Road 5	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	1.23E-02	6.55E-04	0.00E+00	0.00E+00	**0.012**
90024	Paved Road 6	0.00E+00	0.00E+00	0.00E+00	4.24E-03	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	4.24E-03	2.51E-04	0.00E+00	0.00E+00	**0.0042**
90025	Paved Road 7	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	1.48E-03	1.50E-04	0.00E+00	0.00E+00	**0.0015**
SUM		0.00E+00	3.32E-03	0.00E+00	2.06E-01	0.00E+00	6.29E-01	2.06E-06	5.55E-01	0.00E+00	2.06E-01	6.42E-01	0.00E+00	1.71E-03	**0.64**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Acu_Rec184_AllSrc_AllCh_BySrc_2002A.xls]Table 6A

Table 6B. Acute Hazard Index by Sources for MEIR at Parcel B

Stack ID	Source Names	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
90001	Delivery Truck 1 (Diesel)	0.00E+00	0.00E+00	0.00E+00	6.07E-04	0.00E+00	7.44E-02	0.00E+00	7.47E-02	0.00E+00	6.07E-04	7.45E-02	0.00E+00	2.06E-04	**0.075**
90002	Delivery Truck 2 (Diesel)	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	5.40E-02	0.00E+00	5.42E-02	0.00E+00	4.42E-04	5.40E-02	0.00E+00	1.51E-04	**0.054**
90003	Delivery Truck 3 (Diesel)	0.00E+00	0.00E+00	0.00E+00	9.71E-05	0.00E+00	1.57E-02	0.00E+00	1.57E-02	0.00E+00	9.71E-05	1.57E-02	0.00E+00	2.57E-05	**0.016**
90004	Delivery Truck 4 (Diesel)	0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	1.24E-02	0.00E+00	1.24E-02	0.00E+00	7.95E-05	1.24E-02	0.00E+00	2.20E-05	**0.012**
90005	Delivery Truck 1 (Gasoline)	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	6.04E-02	0.00E+00	2.14E-03	0.00E+00	2.71E-05	6.04E-02	0.00E+00	2.71E-05	**0.060**
90006	Delivery Truck 2 (Gasoline)	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	5.16E-02	0.00E+00	1.82E-03	0.00E+00	2.32E-05	5.16E-02	0.00E+00	2.32E-05	**0.052**
90007	IC Engine	0.00E+00	9.17E-07	0.00E+00	5.01E-06	0.00E+00	1.47E-04	2.19E-09	2.00E-07	0.00E+00	5.01E-06	1.47E-04	0.00E+00	2.00E-07	**0.00015**
90008	Flare	0.00E+00	7.04E-05	0.00E+00	3.81E-04	0.00E+00	1.15E-02	4.99E-08	5.20E-06	0.00E+00	3.81E-04	1.15E-02	0.00E+00	5.20E-06	**0.012**
90009	Dozer	0.00E+00	0.00E+00	0.00E+00	9.31E-04	0.00E+00	1.22E-01	0.00E+00	1.23E-01	0.00E+00	9.31E-04	1.22E-01	0.00E+00	2.38E-04	**0.12**
90010	Compactor	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	8.44E-02	0.00E+00	8.46E-02	0.00E+00	6.18E-04	8.45E-02	0.00E+00	1.46E-04	**0.085**
90011	Scraper	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	4.75E-02	0.00E+00	4.76E-02	0.00E+00	3.49E-04	4.75E-02	0.00E+00	8.08E-05	**0.048**
90012	Grader	0.00E+00	0.00E+00	0.00E+00	4.79E-04	0.00E+00	5.55E-02	0.00E+00	5.56E-02	0.00E+00	4.79E-04	5.55E-02	0.00E+00	1.19E-04	**0.056**
90013	Landfill 1	0.00E+00	9.47E-04	0.00E+00	2.71E-03	0.00E+00	3.72E-03	6.01E-07	1.97E-04	0.00E+00	2.71E-03	3.87E-03	0.00E+00	6.25E-05	**0.0039**
90014	Landfill 2	0.00E+00	4.28E-03	0.00E+00	1.10E-02	0.00E+00	1.68E-02	2.36E-06	8.48E-04	0.00E+00	1.10E-02	1.75E-02	0.00E+00	2.42E-04	**0.018**
90015	Landfill 3	0.00E+00	1.27E-03	0.00E+00	3.25E-03	0.00E+00	4.98E-03	7.14E-07	2.51E-04	0.00E+00	3.25E-03	5.18E-03	0.00E+00	7.11E-05	**0.0052**
90016	Unpaved Road 1	0.00E+00	0.00E+00	0.00E+00	4.31E-02	0.00E+00	0.00E+00	0.00E+00	3.94E-03	0.00E+00	4.31E-02	4.35E-03	0.00E+00	0.00E+00	**0.043**
90017	Unpaved Road 2	0.00E+00	0.00E+00	0.00E+00	5.16E-02	0.00E+00	0.00E+00	0.00E+00	4.72E-03	0.00E+00	5.16E-02	5.22E-03	0.00E+00	0.00E+00	**0.052**
90018	Stock Pile	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	1.58E-04	1.54E-05	0.00E+00	0.00E+00	**0.00016**
90019	Paved Road 1	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	2.47E-03	2.50E-04	0.00E+00	0.00E+00	**0.0025**
90020	Paved Road 2	0.00E+00	0.00E+00	0.00E+00	7.84E-03	0.00E+00	0.00E+00	0.00E+00	5.79E-04	0.00E+00	7.84E-03	6.39E-04	0.00E+00	0.00E+00	**0.0078**
90021	Paved Road 3	0.00E+00	0.00E+00	0.00E+00	5.86E-02	0.00E+00	0.00E+00	0.00E+00	4.66E-03	0.00E+00	5.86E-02	5.14E-03	0.00E+00	0.00E+00	**0.059**
90022	Paved Road 4	0.00E+00	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	1.28E-02	1.14E-03	0.00E+00	0.00E+00	**0.013**
90023	Paved Road 5	0.00E+00	0.00E+00	0.00E+00	2.75E-03	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	2.75E-03	2.78E-04	0.00E+00	0.00E+00	**0.0028**
90024	Paved Road 6	0.00E+00	0.00E+00	0.00E+00	3.91E-03	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	3.91E-03	3.96E-04	0.00E+00	0.00E+00	**0.0039**
90025	Paved Road 7	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	3.32E-03	2.64E-04	0.00E+00	0.00E+00	**0.0033**
SUM		0.00E+00	6.56E-03	0.00E+00	2.08E-01	0.00E+00	6.15E-01	3.73E-06	4.89E-01	0.00E+00	2.08E-01	6.34E-01	0.00E+00	1.42E-03	**0.63**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Acu_Rec378_AllSrc_AllCh_BySrc_2002B.xls]Table 6B

Table 7A. Acute Hazard Index by Chemicals for MEIR at Parcel A

Chemicals	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
Diesel, engine exhaust, PM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-01	0.00E+00	5.42E-01	0.00E+00	0.00E+00	5.42E-01	0.00E+00	0.00E+00	**0.54**
Benzene	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	1.71E-03	0.00E+00	0.00E+00	1.71E-03	**0.0017**
Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Styrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	**0.00025**
1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-02	0.00E+00	0.00E+00	**0.066**
Lead	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Manganese	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Mercury	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	0.00E+00	**0.0029**
Nickel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	**0.012**
Arsenic	0.00E+00	0.00E+00	0.00E+00	1.99E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-01	0.00E+00	0.00E+00	0.00E+00	**0.20**
Cadmium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Chromium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Carbon tetrachloride	0.00E+00	2.06E-06	0.00E+00	2.06E-06	0.00E+00	0.00E+00	2.06E-06	0.00E+00	0.00E+00	2.06E-06	0.00E+00	0.00E+00	0.00E+00	**0.0000021**
Isopropyl alcohol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	**0.0032**
Chloroform	0.00E+00	1.52E-05	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	**0.000015**
Methyl chloroform	0.00E+00	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000016**
Methyl bromide	0.00E+00	2.70E-06	0.00E+00	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-06	2.70E-06	0.00E+00	0.00E+00	**0.0000027**
Methyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Vinyl chloride	0.00E+00	3.46E-06	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	**0.0000035**
Methylene chloride	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00036**
Carbon disulfide	0.00E+00	5.80E-06	0.00E+00	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06	0.00E+00	0.00E+00	0.00E+00	**0.0000058**
Bromodichloromethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,1-Dichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Vinylidene Chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Dichlorofluoromethane (Freon 12)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Chlorodifluoromethane (Freon 22)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Trichlorofluoromethane (Freon 11)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Chlorinated flourocarbon (CFC-113)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2-Dichloropropane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Methyl ethyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	**0.0025**
1,1,2-Trichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Trichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,1,2,2-Tetrachloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Hexachlorobutadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2,4-Trimethylbenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Benzyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	**0.00016**
p-Dichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethylene dibromide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethylene dichloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Acrylonitrile	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Methyl isobutyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Toluene	0.00E+00	2.65E-03	0.00E+00	2.65E-03	0.00E+00	2.65E-03	0.00E+00	0.00E+00	0.00E+00	2.65E-03	2.65E-03	0.00E+00	0.00E+00	**0.0027**
Chlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**

Table 7A. Acute Hazard Index by Chemicals for MEIR at Parcel A

Chemicals	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
Hexane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2,4-Trichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Perchloroethylene	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	**0.00027**
Carbonyl sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2-Dichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,3-Dichloropropene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Xylenes	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03	0.00E+00	0.00E+00	**0.0040**
Hydrochloric Acid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-03	0.00E+00	0.00E+00	**0.0081**
Barium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Beryllium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	**0.0012**
Zinc	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Selenium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Chromium (hexavalent)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
SUM	0.00E+00	3.32E-03	0.00E+00	2.06E-01	0.00E+00	6.29E-01	2.06E-06	5.55E-01	0.00E+00	2.06E-01	6.42E-01	0.00E+00	1.71E-03	**0.64**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Acu_Rec184_AllSrc_AllCh_ByRec_ByChem_2002A.xls]Table 7A

Table 7B. Acute Hazard Index by Chemicals for MEIR at Parcel B

Chemicals	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
Diesel, engine exhaust, PM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-01	0.00E+00	4.70E-01	0.00E+00	0.00E+00	4.70E-01	0.00E+00	0.00E+00	**0.47**
Benzene	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	1.42E-03	0.00E+00	0.00E+00	1.42E-03	**0.0014**
Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Styrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	**0.00048**
1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	**0.11**
Lead	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Manganese	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Mercury	0.00E+00	0.00E+00	0.00E+00	3.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03	0.00E+00	0.00E+00	0.00E+00	**0.0030**
Nickel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-02	0.00E+00	0.00E+00	1.74E-02	0.00E+00	0.00E+00	**0.017**
Arsenic	0.00E+00	0.00E+00	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	**0.20**
Cadmium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Chromium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Carbon tetrachloride	0.00E+00	3.73E-06	0.00E+00	3.73E-06	0.00E+00	0.00E+00	3.73E-06	0.00E+00	0.00E+00	3.73E-06	0.00E+00	0.00E+00	0.00E+00	**0.0000037**
Isopropyl alcohol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03	0.00E+00	0.00E+00	**0.01**
Chloroform	0.00E+00	2.75E-05	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	**0.000028**
Methyl chloroform	0.00E+00	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.0000033**
Methyl bromide	0.00E+00	5.34E-06	0.00E+00	5.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06	5.34E-06	0.00E+00	0.00E+00	**0.0000053**
Methyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Vinyl chloride	0.00E+00	6.85E-06	0.00E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	**0.0000069**
Methylene chloride	0.00E+00	7.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0.00072**
Carbon disulfide	0.00E+00	1.03E-05	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	**0.000010**
Bromodichloromethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,1-Dichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Vinylidene Chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Dichlorofluoromethane (Freon 12)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Chlorodifluoromethane (Freon 22)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Trichlorofluoromethane (Freon 11)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Chlorinated flourocarbon (CFC-113)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2-Dichloropropane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Methyl ethyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03	0.00E+00	0.00E+00	**0.0049**
1,1,2-Trichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Trichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,1,2,2-Tetrachloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Hexachlorobutadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2,4-Trimethylbenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Benzyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	**0.00031**
p-Dichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethylene dibromide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Ethylene dichloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Acrylonitrile	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Methyl isobutyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Toluene	0.00E+00	5.24E-03	0.00E+00	5.24E-03	0.00E+00	5.24E-03	0.00E+00	0.00E+00	0.00E+00	5.24E-03	5.24E-03	0.00E+00	0.00E+00	**0.0052**
Chlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**

Table 7B. Acute Hazard Index by Chemicals for MEIR at Parcel B

Chemicals	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
Hexane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2,4-Trichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Perchloroethylene	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	**0.00054**
Carbonyl sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,2-Dichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
1,3-Dichloropropene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Xylenes	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-03	0.00E+00	0.00E+00	**0.0080**
Hydrochloric Acid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	**0.01**
Barium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Beryllium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	**0.0018**
Zinc	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Selenium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
Chromium (hexavalent)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**0**
SUM	0.00E+00	6.56E-03	0.00E+00	2.08E-01	0.00E+00	6.15E-01	3.73E-06	4.89E-01	0.00E+00	2.08E-01	6.34E-01	0.00E+00	1.42E-03	**0.63**

P:\C\City of Chula Vista\Sunbow HRA\report\revised HARP tables\[Rep_Acu_Rec378_AllSrc_AllCh_ByRec_ByChem_2002B.xls]Table 7B

Table 8: Particle Size Distributions

Paved Roads[1]			Unpaved Roads[2]			Other Sources[3]		
Particle Size (micron)	Cumulative Fraction	Mass Fraction	Particle Size (micron)	Cumulative Fraction	Mass Fraction	Particle Size (micron)	Cumulative Fraction	Mass Fraction
2.5	0.045	0.045	2.5	0.047	0.047	1	0.001	0.001
10	0.192	0.147	10	0.306	0.259	5	0.120	0.119
15	0.229	0.037	30	1.000	0.694	10	0.340	0.220
30	1.000	0.771		Sum	1.000	20	0.670	0.330
	Sum	1.000				30	0.810	0.140
						50	0.930	0.120
						70	0.970	0.040
						100	1.000	0.030
							Sum	1.000

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Note:

(1) Particle size distributions for paved roads were obtained from USEPA AP-42 Table 13.2-1.1.

(2) Particle size distributions for unpaved roads were obtained from USEPA AP-42 Table 13.2.2-2.

(3) Particle size distributions for other sources were obtained from USEPA dated May 12, 2003.

Table 9. Examples of Non-US Dust Deposition Standards[1]

Country	Averaging Period	Deposition Rates	
		mg/m^2-day	g/m^2-year
Argentina	Annual	333	121.5
Australia	(Not specified)	333	121.5
Canada, Alberta	Annual	180	65.7
Canada, Manitoba	Annual	153	55.8
Canada, Newfoundland	Annual	153	55.8
Canada, Ontario	Annual	170	62.1
Finland	Annual	333	121.5
Germany	Long term, Short term	350, 650	127.8, 237.3
Spain	Annual	200	73.0

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Note:
1. H.W.Vallack and D.E.Shillito "Suggested Guidelines for Deposited Ambient Dust" *Atmospheric Environmental* Vol. 32, 1998.

Table 10. Public Response Levels to Dust Deposition Rates[1]

Public Response	Typical Situation	Deposition Rates	
		mg/m^2-day	g/m^2-year
Noticeable	Urban area	71.5 – 95.3	26.1 – 34.8
Objectionable	Industrial	190.6 – 238.2	69.6 – 87.0
Probable Complaint		476.4	173.9

P:\C\City of Chula Vista\Sunbow HRA\report\Table 8-10.doc

Note:

1. www.quarry.leeds.ac.uk/goodquarry article

Table 11. Comparison Of Hydrogen Sulfide and Acetaldehyde Concentrations with Odor Thresholds

Chemical Name	Modeled Max 1-hr Concentration		Calculated 3-min Ground Level Concentration				Odor Threshold[1]
	Parcel A	Parcel B	Parcel A		Parcel B		
	ug/m^3		ug/m^3	ppm	ug/m^3	ppm	ppm
Hydrogen Sulfide (peak LFG generation)	12.0	14.6	21.8	0.0157	26.5	0.0190	0.0045
Hydrogen Sulfide (average LFG generation)	9.5	11.5	17.3	0.0124	21.0	0.0151	0.0045
Acetaldehyde	7.1	6.7	12.9	0.0071	12.2	0.0068	0.067

P:\C\City of Chula Vista\Sunbow HRA\Emission Calculations\[Odor analysis 050905.xls]Odor threshold

Notes:

1. The odor threshold is from "Chemicals with Established Occupational Health Standards (American Industrial Hygiene Association (AIHA))". The geometric means of the AIHA critiqued thresholds were used.

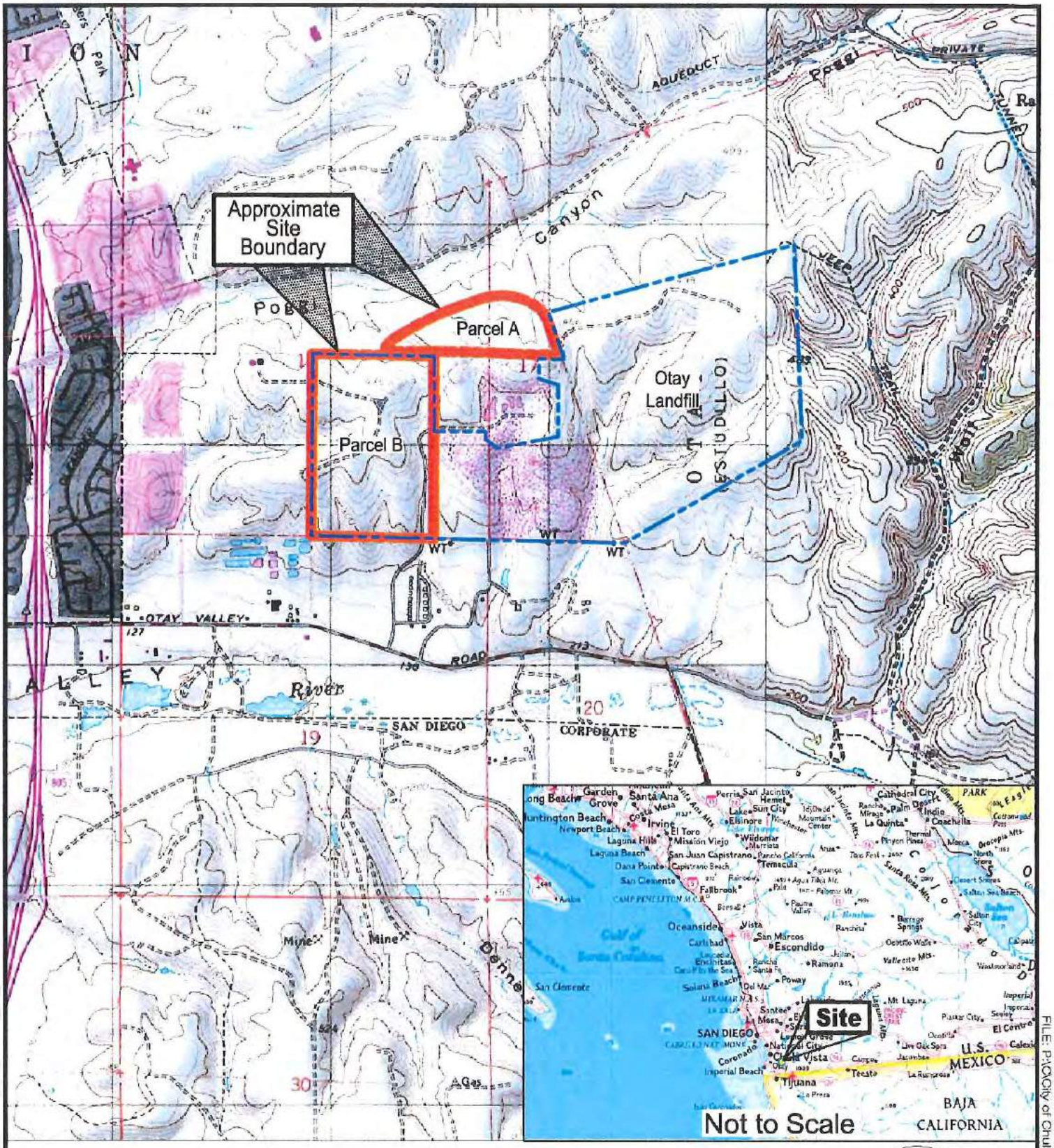
Calculation Factors

34.080 Molecular Weight of Hydrogen Sulfide

44.05 Molecular Weight of Acetaldehyde

1.82 Conversion factor from 1-hr to 3 minutes; Workbook of atmospheric dispersion estimates: an introduction to dispersion modeling" (D. Bruce Turner, 1994)

FIGURES



SOURCE:
U.S.G.S. 7.5 minute series (topographic)
Imperial Beach, CA Quadrangle, version 1975, current as of 1975

0 1/2 1 MILE
2000 0 2000 4000 FEET

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
SCALE 1:24000

ENVIRON

Site Vicinity Map

Sunbow Project Parcel A and B
Chula Vista, California

Figure **1**

Drafter: JJC Date: 4/15/05 Contract Number: 05-11157C Approved: Revised:

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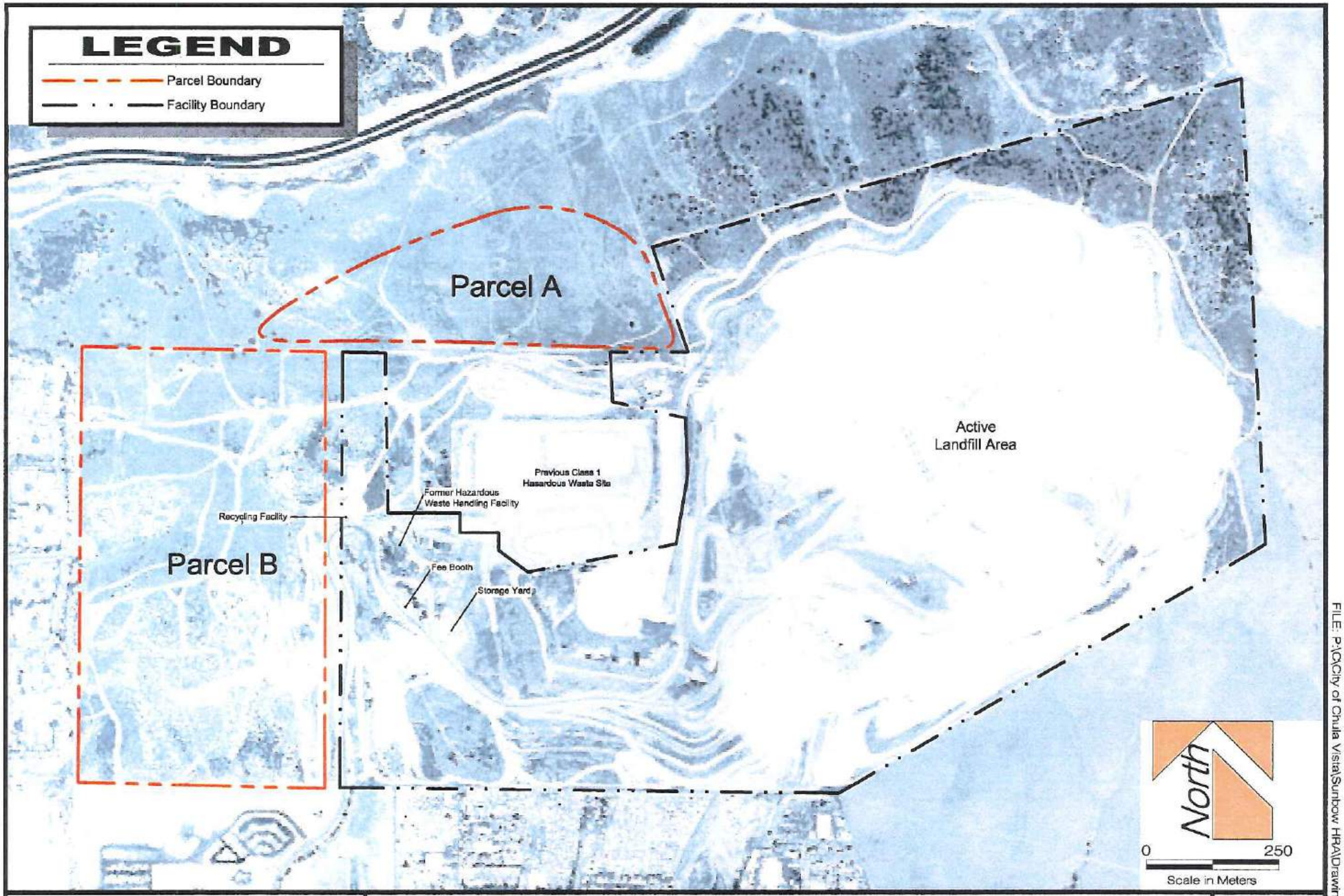

ENVIRON

Plot Plan

Sunbow Project Parcel A and B
Chula Vista, California

Figure 2

Drafter: JJC Date: 5/20/05 Contract Number: 05-11157C Approved: Revised:

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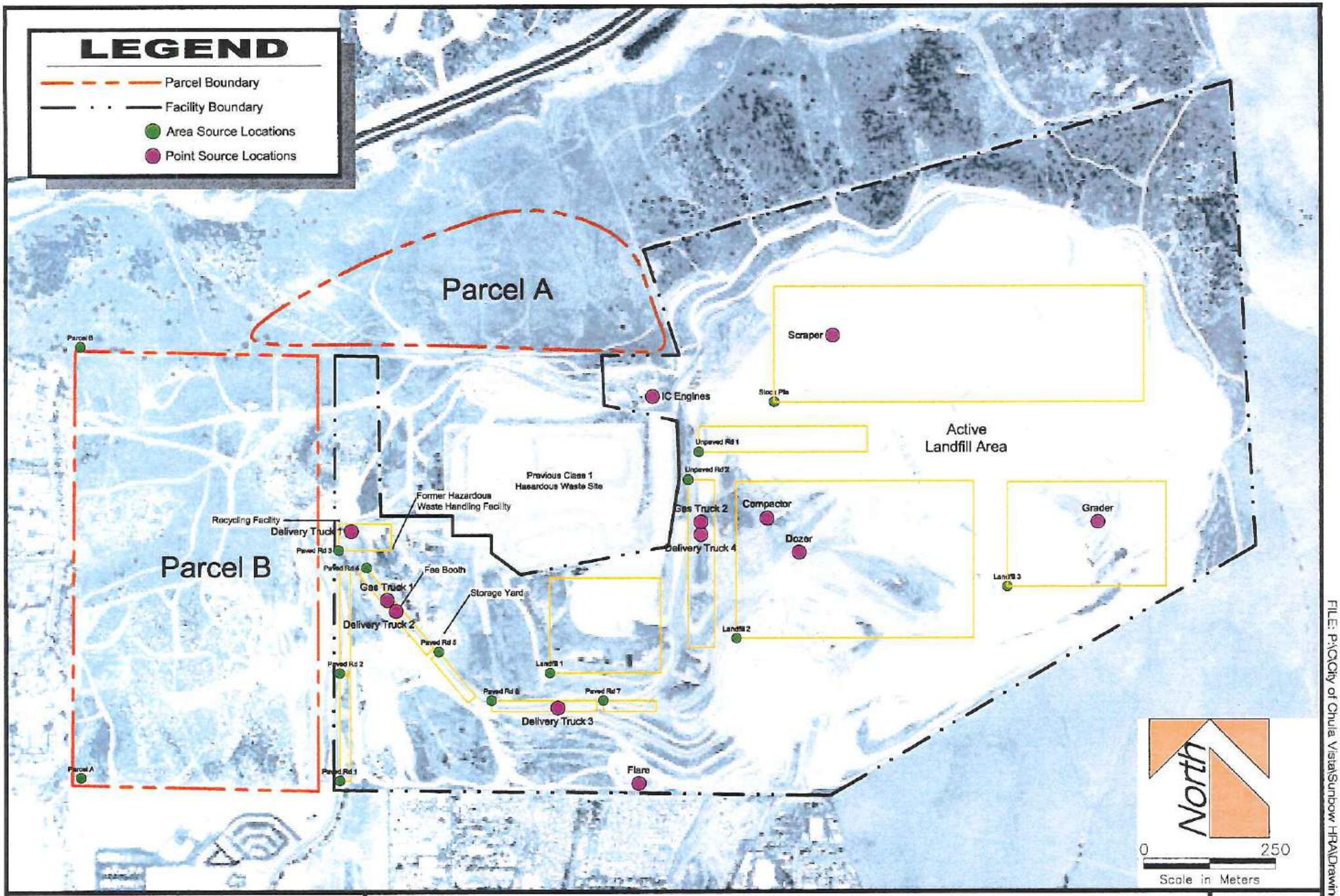

ENVIRON

Source Locations Used for Dispersion Modeling

Sunbow Project Parcel A and B
Chula Vista, California

Figure 3

Drafter: JJC Date: 5/19/05 Contract Number: 05-11157C Approved: Revised:

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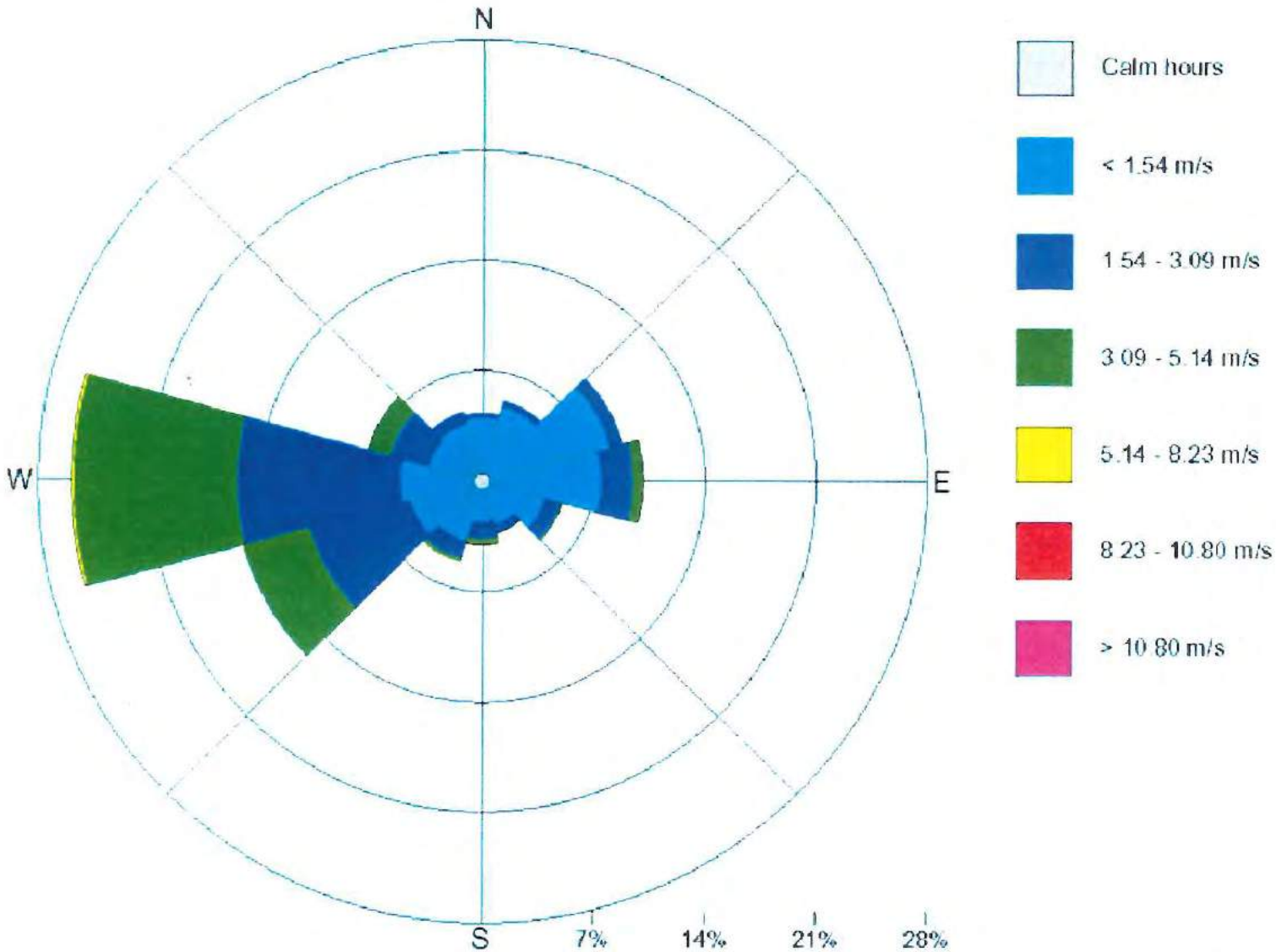


ENVIRON

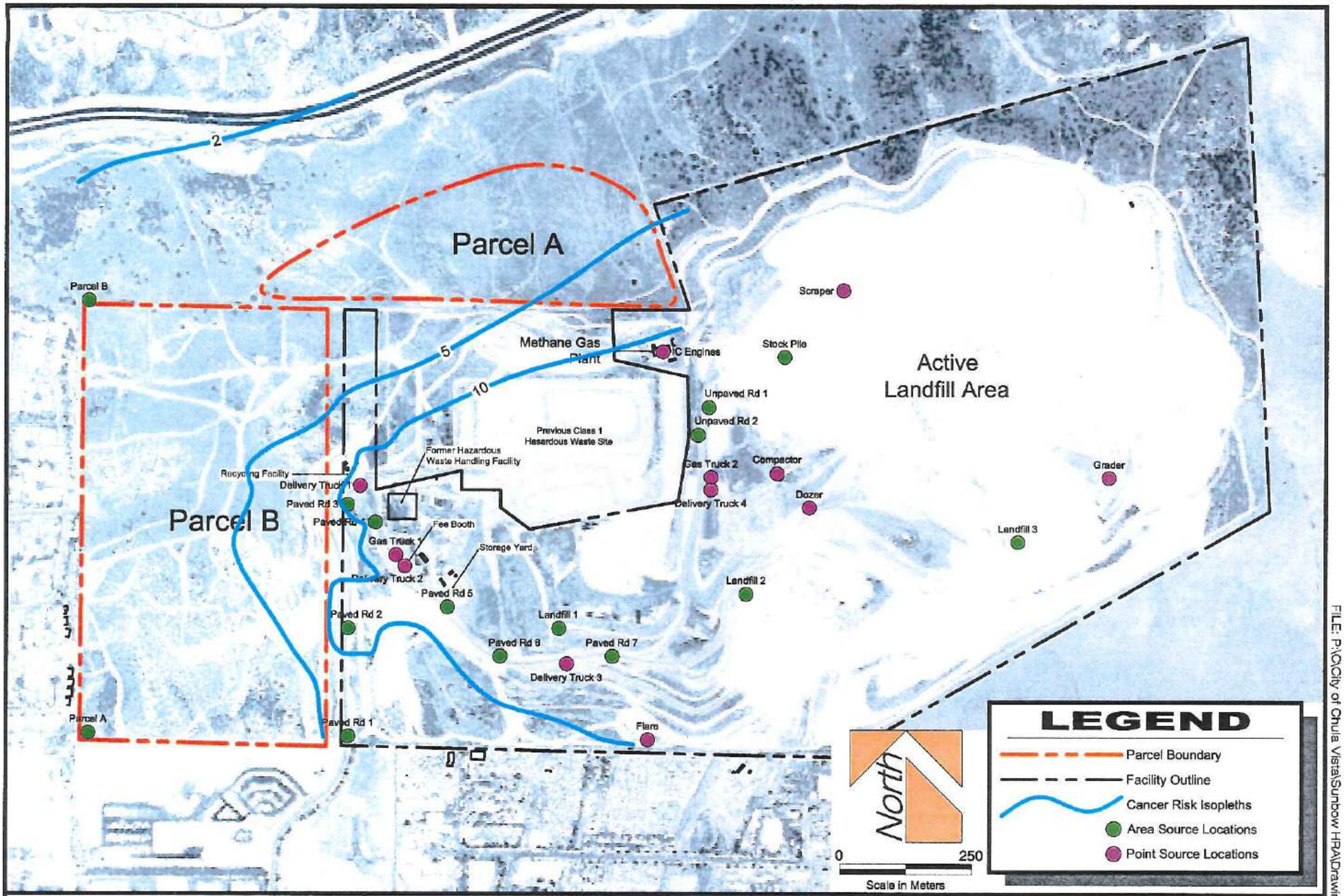
Windrose Plot for Year 2002

Chula Vista Meteorological Station
Chula Vista, California

Figure **4**

Drafter: JJC Date: 5/17/05 Contract Number: 05-11157C Approved: Revised:

FILE: P:\CC\City of Chula Vista\Sunbow HRA\Drawings\11157CF04



ENVIRON

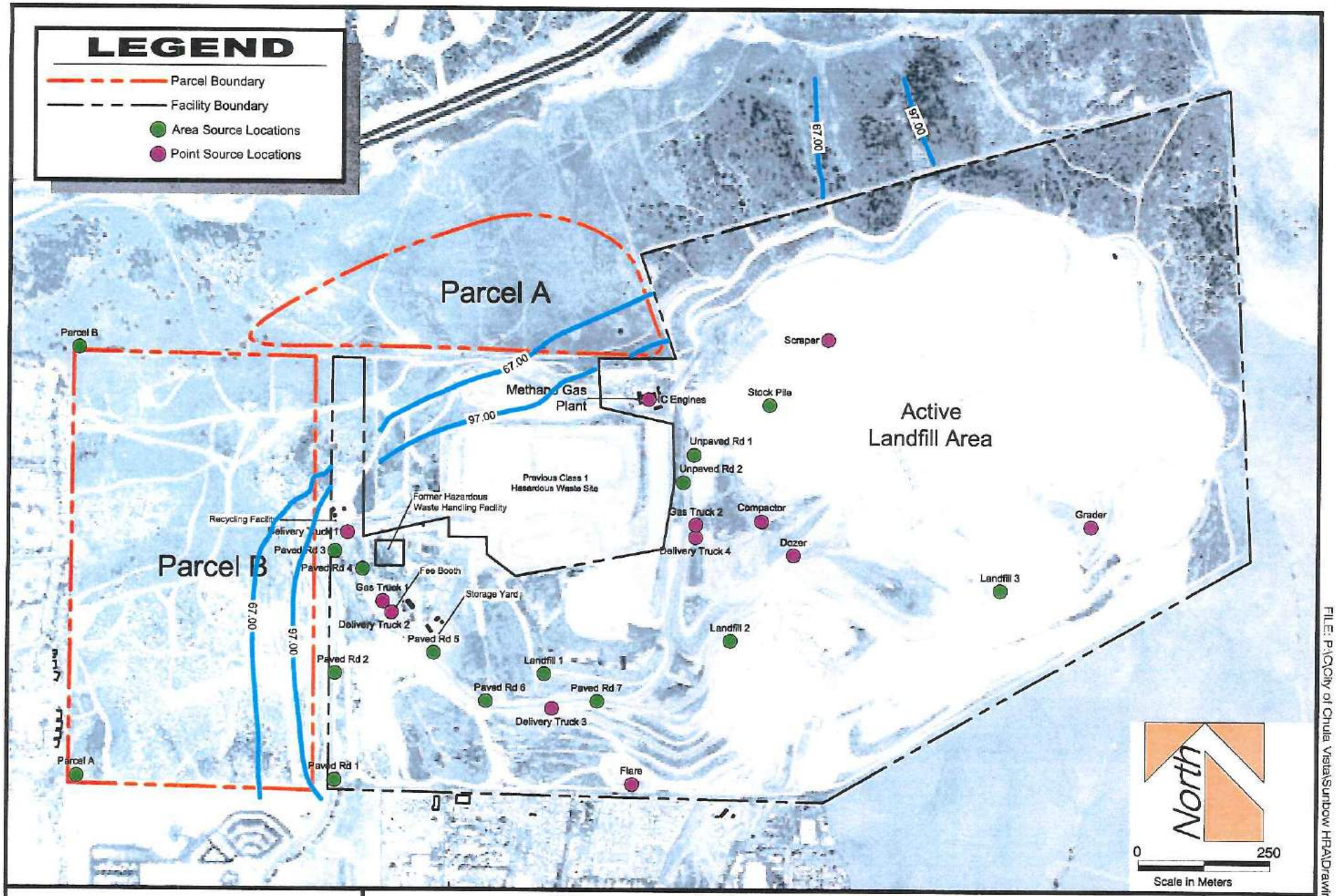
Cancer Risk Isopleths

Sunbow Project Parcels A and B
Chula Vista, California

Figure 5

Drafter: JJC Date: 5/19/05 Contract Number: 05-11157C Approved: Revised:

FILE: P:\C\City of Chula Vista\Sunbow HRA\Drawings\11157CF05



ENVIRON

Deposition Isopleths

Sunbow Project Parcel A and B
Chula Vista, California

Figure 6

Drafter: JJC Date: 5/19/05 Contract Number: 05-11157C Approved: Revised:

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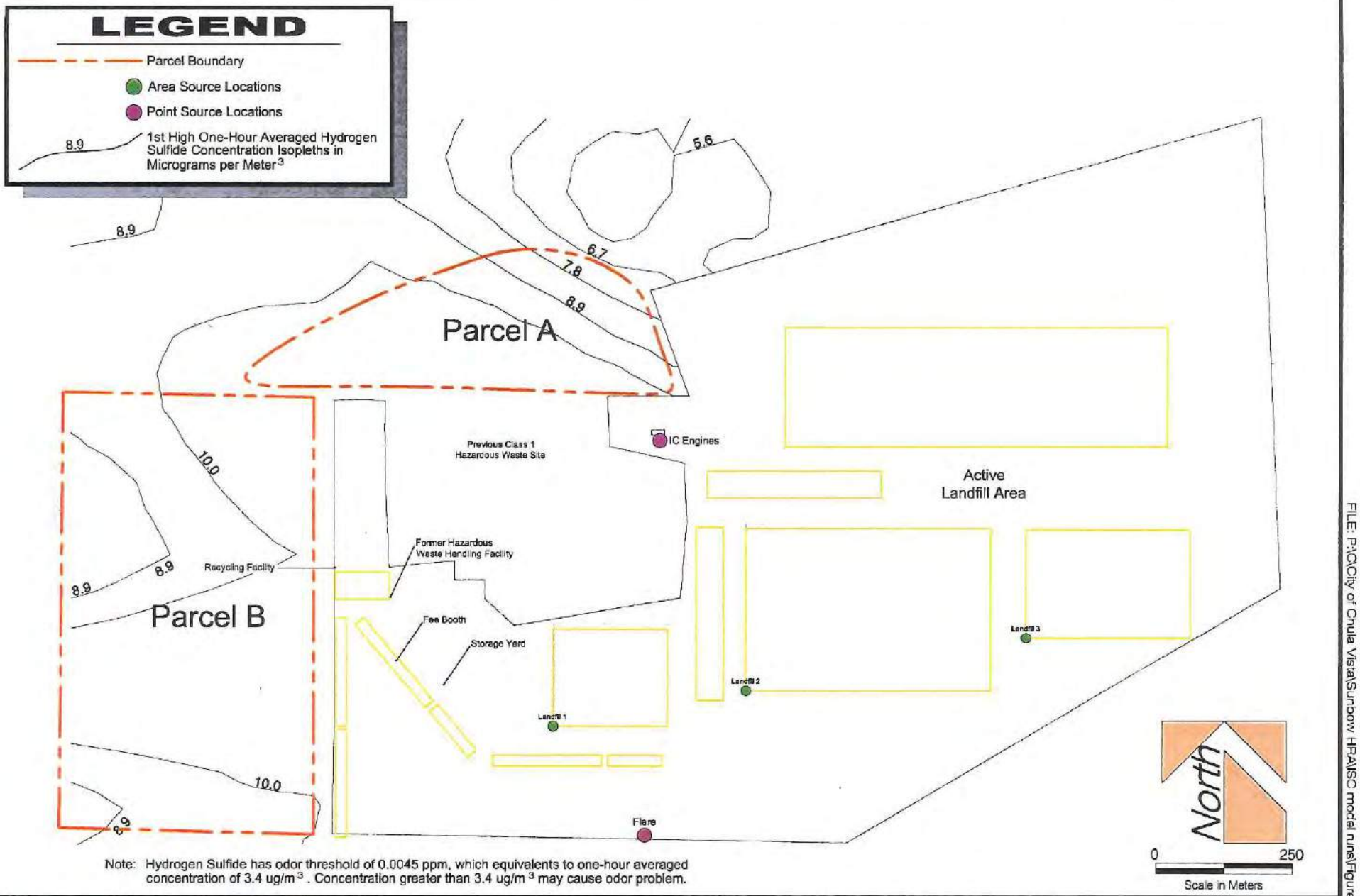

Note: Hydrogen Sulfide has odor threshold of 0.0045 ppm, which equivalents to one-hour averaged concentration of 3.4 ug/m³. Concentration greater than 3.4 ug/m³ may cause odor problem.

ENVIRON

Odor Impacts from Hydrogen Sulfide Emissions

(Maximum LFG Generation Rate)

Sunbow Project Parcel A and B, Chula Vista, California

Figure 7a

Drafter: JJC Date: 5/19/05 Contract Number: 05-11157C Approved: Revised:

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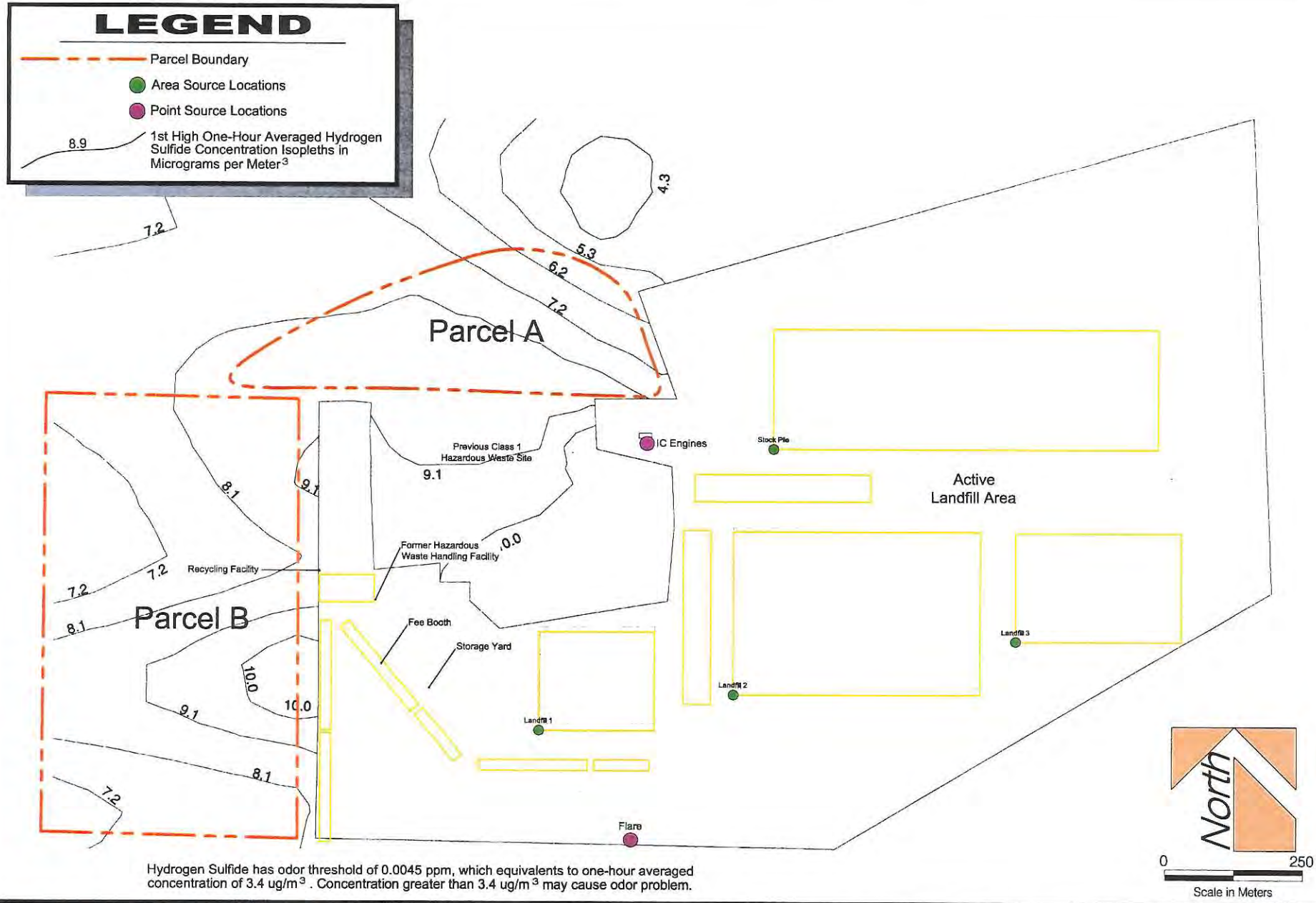

Hydrogen Sulfide has odor threshold of 0.0045 ppm, which equivalents to one-hour averaged concentration of 3.4 ug/m^3 . Concentration greater than 3.4 ug/m^3 may cause odor problem.

ENVIRON

Odor Impacts from Hydrogen Sulfide Emissions

(Average LFG Generation Rate)

Sunbow Project Parcel A and B, Chula Vista, California

Figure 7b

Drafter: JJC Date: 5/19/05 Contract Number: 05-11157C Approved: Revised:

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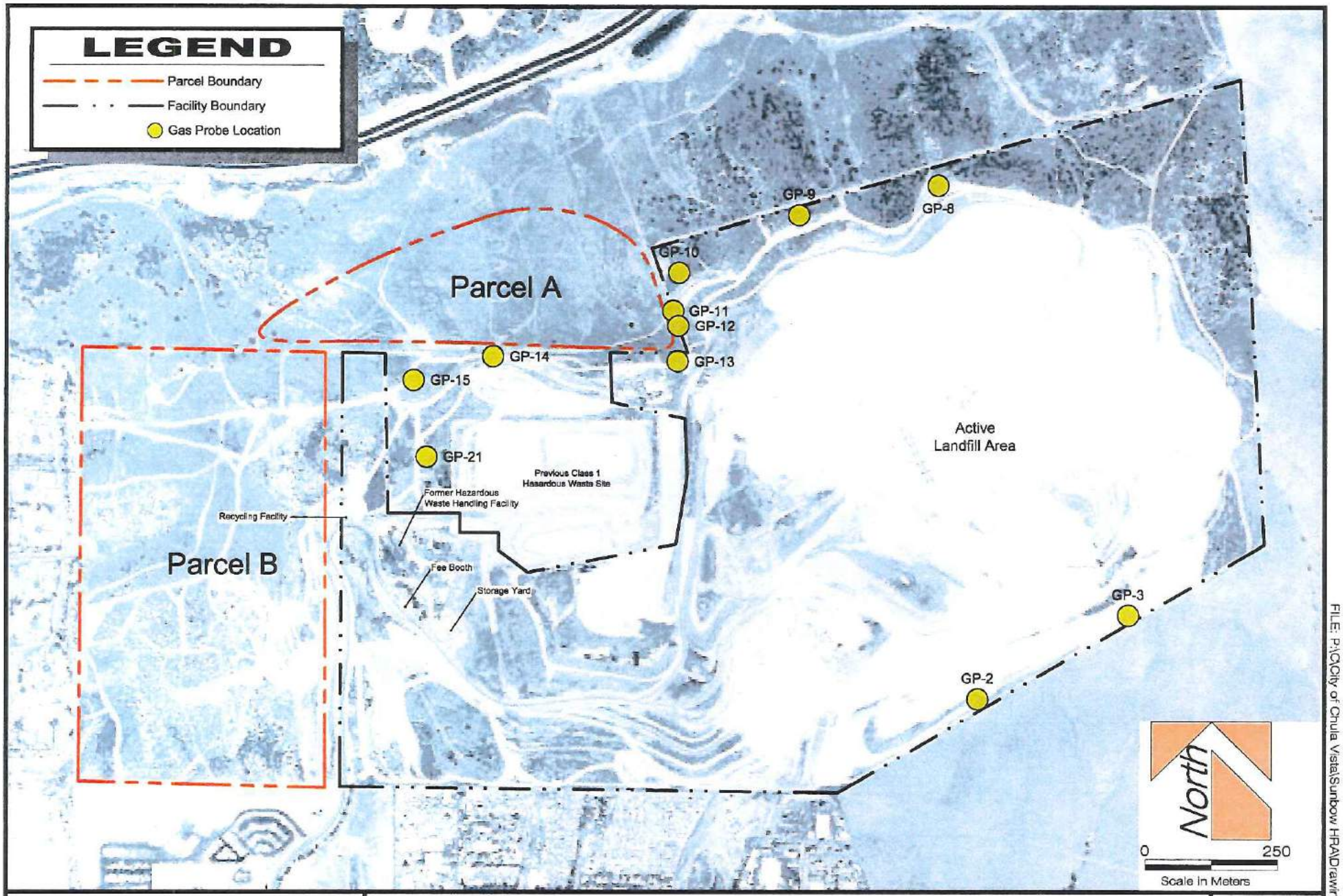

ENVIRON

Gas Probe Locations

Sunbow Project Parcel A and B
Chula Vista, California

Figure 8

Drafter: JJC Date: 5/19/05 Contract Number: 05-11157C Approved: Revised: 7/20/05

FILE: P:\C\City of Chula Vista\Sunbow HRA\Drawings\11157CF08

Prepared By:
Geocon Environmental Consultants
6970 Flanders Drive
San Diego, California 92121-2974

LIMITED SOIL-GAS, SOIL, AND GROUNDWATER SAMPLING REPORT

for

Rancho Del Sur Phase II

San Diego, California

Prepared for:
Portfolio Investments Limited
San Diego, California
Project No. 08080-06-05
June 3, 1994

GEOCON
Environmental Consultants Inc.

Project No. 08080-06-05
June 3, 1994

Portfolio Investments Limited
12555 High Bluff Drive, Suite 260
San Diego, California 92130

Attention: Mr. Yehudi Gaffen

Subject: RANCHO DEL SUR PHASE II
SAN DIEGO, CALIFORNIA
LIMITED SOIL-GAS, SOIL, AND
GROUNDWATER SAMPLING REPORT

Gentlemen:

In accordance with the request of Mr. Yehudi Gaffen, and the "Proposal" dated July 16, 1993 revised March 22, 1994, Geocon Environmental Consultants (GEC) has prepared this "Report" describing environmental engineering services performed for the subject site. The site is located south of Telegraph Canyon Road and east of Laurel and Brandywine Avenues in San Diego County, California. The southeastern corner of the project is located adjacent to the former Otay Landfill in the Otay Landfill Annex.

The environmental engineering services performed include the excavation of exploratory borings, the installation of temporary groundwater monitoring wells, limited soil/groundwater/soil-gas sampling and laboratory testing. The accompanying report summarizes the environmental engineering services performed and presents the results of the laboratory testing.

If there are any questions concerning the contents of this report, or if GEC may be of further service, please contact the undersigned at your convenience.

Very truly yours,

GEOCON ENVIRONMENTAL CONSULTANTS

Robert S. Johnston
RCE 42332

Dennis M. Sullivan
RG 5418

DMS:RSJ:dms:slc

(4) Addressee

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FAX 619 558-8437

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LIMITED SOIL-GAS, SOIL, AND
GROUNDWATER SAMPLING REPORT

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LIMITED SOIL-GAS, SOIL, AND
GROUNDWATER SAMPLING REPORT

Project No. 08080-06-05
June 3, 1994

LIMITED SOIL-GAS, SOIL, AND GROUNDWATER SAMPLING REPORT

INTRODUCTION

In accordance with the request of Mr. Yehudi Gaffen, and the "Proposal" dated July 16, 1993 revised March 22, 1994, Geocon Environmental Consultants (GEC) has performed environmental engineering services for the subject site. The site is located south of Telegraph Canyon Road and east of Laurel and Brandywine Avenues in San Diego County, California. The southeastern corner of the project is located adjacent to the former Otay Landfill in the Otay Landfill Annex. The site is identified by the County of San Diego Assessors Parcel Numbers (APN) 644-011-02 and 644-020-01, and is owned by GADCO/Resolution Trust Corporation. The approximate location of the site is depicted on the Vicinity Map, presented as Figure 1.

The environmental engineering services performed include the excavation of exploratory borings, the installation of temporary groundwater monitoring wells, limited soil/groundwater/soil-gas sampling and laboratory testing. The accompanying report summarizes the environmental engineering services performed and presents the results of the laboratory testing.

Background

It is understood that Portfolio Investments Ltd. (PIL) has participated in the purchase of a Resolution Trust Corporation (RTC) loan pool comprised of properties of which the subject site

is a part. It is understood that the site borders an active Class III landfill facility (County of San Diego Otay Valley Landfill) and an inactive Class I facility.

Purpose

The purpose of the environmental engineering services performed is to provide additional information pertaining to the potential presence of hazardous materials within soil-gas, soils, and groundwater beneath the subject site.

Scope of Services

The scope of services performed is divided into four tasks: Task I - Limited Vadose Moisture Monitoring; Task II - Limited Soil Gas Monitoring; Task III - Temporary Groundwater Monitoring Well Installation; and Task IV - Limited Groundwater Sampling. The scope of services performed is outlined below.

Task I - Limited Vadose Moisture Monitoring

- Prepared a Health and Safety Plan outlining recommendations for personal protective equipment (PPE) for GEC workers during the field activities.
- Observed for the presence of liquid within the reservoirs of the three existing moisture monitoring wells onsite (Wells V1, V2, and V3).

Task II - Limited Gas Monitoring

- Removed the original well heads on the seven existing vadose gas monitoring wells at the site. Refurbished the gas sampling tubing/ports and reinstalled the security well covers.

- Collected soil gas samples from the twenty sampling probes within the seven existing vadose gas monitoring wells (Wells G1 through G7) for the potential presence of landfill gas including methane and hydrogen sulfide. A Model 224-PCXR3 SKC Universal Flow Sample Pump was connected to the tubing at the top of each well and pumped for 60 seconds to purge each probe. Gas samples were then extracted from each gas probe using the sample pump and collected in Tedlar bags.

- Obtained measurements of the tedlar bag samples using the MSA Model 361 meter (CGI) for the presence of combustible gases, percent oxygen, and hydrogen sulfide. Measurements were also obtained of the samples for the presence of total ionizable compounds using a Century Foxboro Model 128 Organic Vapor Analyzer (OVA), calibrated for response to methane.

- Submitted the tedlar bag sample to the laboratory for the sampling port exhibiting the greatest volatile organic concentration (as detected by the OVA) for testing for the potential presence of methane.

Task III - Soil Sampling/Temporary Groundwater Monitoring Well Installation

- Submitted an application to extend the expiration date of approved Well Permit No. W93683 for 120 days and to install an additional (second) groundwater monitoring well at the site. The well permit was originally approved for the installation of one groundwater monitoring well on July 29, 1993, extended on November 24, 1994, and March 24, 1994, and currently expires on July 29, 1994.

- Contacted local public utilities via Underground Service Alert (USA) (Ticket No. 728-063) to attempt to identify the locations of subsurface utilities/obstacles in proximity to the proposed boring and well locations. Performed a site-meet on March 23, 1994 with public utility locators responding to the USA notification.

- Assisted the Client in obtaining competitive cost estimates from three drilling companies for the installation of two temporary groundwater monitoring wells at the site. The Client contracted directly with the selected drilling contractor for well drilling and installation services.

- Observed the excavation of two exploratory borings at the site. The borings were excavated utilizing an air-rotary drill rig (i.e., Cantera CT-450). The two borings were placed upon the existing easterly-westerly trending ridge (at an approximate elevation of 430 feet MSL) situated south of Poggi Canyon.

- Documented the subsurface soil conditions encountered during the exploratory boring activities. Prepared descriptive logs of the exploratory borings for inclusion in this report.

- Obtained grab soil samples and drive soil samples from within the exploratory borings for possible laboratory testing. The drive soil samples were obtained using a standard penetration test (SPT) split spoon sampler equipped with brass inner rings. The tip of the sampler was advanced into the soil using blows from a 140-pound hammer falling approximately 30 inches. The lead tube was capped with teflon sheeting and plastic end caps, labelled, and placed with ice in an insulated container. Chain of Custody documentation was followed for each soil sample submitted to the laboratory for testing. The grab soil samples were obtained from the drilling cuttings that were evacuated from the boring using compressed air. The grab soil samples were transferred into sealable plastic bags and labelled. The grab soil samples were used to assist in classification of lithology and were not subjected to laboratory testing.

- Provided quality assurance/quality control (QA/QC) procedures during the field exploration activities. The drill stem/bits were steam cleaned prior to the excavation of each boring.

- Submitted six soil drive samples collected to a CAL EPA-certified analytical laboratory for testing. Six soil samples were tested for total lead, five soil samples were tested for total copper, and one soil sample was tested for halogenated volatile organic compounds.

- Placed soil excavated from the exploratory boring onto plastic sheeting and covered with plastic sheeting for disposal by the Client following regulatory protocol. Soil cuttings and waste water generated during the exploration activities are assumed hazardous until proven otherwise.

- Observed the completion of the exploratory borings as temporary groundwater monitoring wells. Each well was constructed of 2-inch-diameter polyvinyl chloride (PVC) casing.

Task IV - Limited Groundwater Sampling

- Observed the development of the temporary groundwater monitoring wells. The wells were developed using compressed air.

- Measured the water level, monitored for free-floating product, and purged the temporary groundwater monitoring wells for subsequent sampling of the groundwater. Monitoring Well MW1 (i.e., the perched-aquifer well) was purged by removing a volume of groundwater from the well equivalent to three times the volume of water contained within the casing and saturated well annulus. Monitoring Well MW2 (i.e., the regional unconfined aquifer well) was not purged before sampling. The temperature, pH, and conductivity of the groundwater were monitored during purging. The waste water generated during well development and sampling activities was placed in a 55-gallon drum, labelled, and left onsite for proper disposal by the Client.

- Collected three groundwater samples from Monitoring Well MW1 and one groundwater sample from Monitoring Well MW2. The samples were collected (after 80 percent recovery of the static water level) using a stainless steel or disposable plastic bailer, placed in laboratory-provided glass containers, labeled, placed with ice in an insulated container, and delivered to a California Environmental Protection Agency (CAL EPA)-certified laboratory for testing.

- Provided quality assurance/quality control procedures during the field activities. These procedures include cleansing the sampling equipment prior to each sampling effort by washing in a trisodium phosphate solution followed by successive potable water and deionized water rinses. Chain-of-custody documentation and protocol were implemented for each groundwater sample transferred to the laboratory.

- Submitted the groundwater samples collected to a CAL EPA-certified analytical laboratory for testing for volatile organics following the U.S. Environmental Protection Agency (EPA) Test Method 8240, for semi-volatile organics following EPA Test Method 8270, and for California Code of Regulation (CCR) Title 22 total metals following various test methods.

PREFIELD ACTIVITIES

GEC performed preliminary services prior to the initiation of field activities. These services are described in the Scope of Services section of this report and include the preparation of a Health and Safety Plan, notification to Underground Services Alert (USA), and obtaining permits for the installation of exploratory borings and temporary groundwater monitoring wells.

LIMITED RESEARCH - GEOLOGIC AND GROUNDWATER CONDITIONS

Site Geology

A review of "Geology of National City, Imperial Beach, and Otay Mesa Quadrangles, Southern San Diego Metropolitan Area, California," California Division of Mines and Geology, 1977, indicates that the surficial lithology in the vicinity of the onsite groundwater monitoring wells is mapped as the Tertiary-aged Otay Formation (To). The Otay Formation is described as light-gray and light brown, moderately well-sorted, poorly indurated, massive sandstone and claystone. The sandstone is weakly cemented locally. The claystone is waxy and composed almost exclusively of bentonite. The mapped rock type was confirmed during the field activities. The geologic conditions encountered during exploratory boring activities are depicted on the Boring Logs, Appendix B, and summarized below.

Groundwater Occurrence and Quality

A review of the "Comprehensive Water Quality Control Plan for the San Diego Basin," dated July 1975, and issued by the State Water Resources Board, indicates that the subject site is located

above-referenced document indicates temperature measurements between 69 and 82 degrees Fahrenheit, pH measurements between 6.9 and 8.2, and conductivity measurements between 987 and 4,500 μmhos for wells situated within the Otay Hydrology Subunit.

VADOSE MONITORING ACTIVITIES

Vadose monitoring activities were performed during two monitoring events conducted on March 28, 1994 and May 9, 1994. A Solonist water level meter was lowered to the total well depth in each of the three temporary vadose monitoring wells (Wells V1, V2, and V3). Liquid was not detected in the wells on either date. The approximate locations of the vadose monitoring wells are depicted on the Site Plan, Figure 2.

SOIL-GAS MONITORING ACTIVITIES

Gas Well Refurbishing

A GEC representative removed the original well heads on the seven existing vadose gas monitoring wells (Wells G1 through G7) at the site in March 1994. The original gas sampling tubes/ports were identified and refurbished. Security well covers (standpipes) set in concrete pads were reinstalled for each gas monitoring well.

Soil-Gas Monitoring

Two iterations of soil-gas monitoring were conducted at the site on April 15 and May 6, 1994. During each iteration, GEC representatives collected a soil-gas sample from each of the twenty sampling probes within the seven existing vadose gas monitoring wells (Wells G1 through G7). A Model 224-PCXR3 SKC Universal Flow Sample Pump was connected with Tygon tubing to the sampling port at the top of each well and pumped for 60 seconds to purge each probe. Gas samples were then extracted from each gas probe using the sampling pump and were collected in Tedlar bags.

The samples were monitored with the MSA Model 361 meter (CGI) for combustible gases, percent oxygen, and hydrogen sulfide. The samples were also monitored for total ionizable compounds using a Century Foxboro Model 128 Organic Vapor Analyzer (OVA) calibrated for response to methane. It should be noted that the OVA provides qualitative measurements for the presence of volatile/gaseous organic compounds, including methane. These measurements are not specific for the detection of methane. The results of the gas screenings are summarized in Tables I and II.

A review of the test results indicates that the soil-gas samples exhibited concentrations of organic vapor from less than the detection limit of the instrument (i.e., approximately 5 parts per million [ppm]) to greater than 1000 ppm (i.e., the maximum calibration limit of the instrument).

The soil-gas sample exhibiting the greatest organic vapor concentration was Sample G6-G, obtained from a screened interval at 35 feet BGS. This sample was submitted to West Coast Analytical Service, Inc. and subjected to testing for methane by a gas chromatograph equipped with a flame ionization detector.

Soil-Gas Laboratory Results

The soil-gas laboratory results are presented in Appendix C. A review of the laboratory results indicates that Soil-Gas Sample G6-G exhibited a methane concentration of 3300 ppm.

EXPLORATORY BORINGS/LIMITED SOIL SAMPLING

Excavation of Exploratory Borings

The exploratory drilling activities were performed between March 23 and April 5, 1994. The drilling activities consisted of the excavation of two (2) exploratory borings (MW1 and MW2). The exploratory borings were extended to depths of approximately 177 feet and 337 feet below the existing ground surface (BGS), respectively. The approximate locations of the borings are depicted on the Site Plan, Figure 2. Descriptive logs of the borings are presented in Appendix B.

The borings were excavated by Tri-County Drilling using a truck-mounted Cantera CT-450 air rotary drill rig. Twenty-six grab soil samples and seven drive soil samples were collected (for potential laboratory analysis) from the exploratory borings following protocol described in the Scope of Services section of this report. The two borings were completed as temporary

groundwater monitoring wells. To prevent intermixing of separate aquifer systems, Monitoring Well MW2 was drilled using an 8-inch diameter bit through the perched aquifer, grouted with a cement-bentonite mixture from through the producing zone of the perched aquifer, then redrilled to a depth of approximately 337 feet BGS using a 6-inch diameter bit. A polymer drilling fluid additive (Poly-Vis) was introduced into the boring during the excavation of Monitoring Well MW2 to assist in keeping the hole from caving and to promote circulation of the drilling cuttings. The material safety data sheet for Poly-Vis is presented in Appendix D.

Soil Conditions Encountered

Soils encountered during the excavation of the exploratory borings consists primarily of the Tertiary-aged Otay, Sweetwater, and Mission Valley Formations.

Otay Formation (To). The Otay Formation was encountered from the ground surface to an approximate depth of 228 feet BGS. The Otay Formation consists primarily of medium dense to dense, damp to moist, light yellowish brown, silty, fine to medium and coarse sandstone, with some clay; and hard, damp to moist, brown to olive brown, fine to medium sandy claystone. A stiff to hard, damp to moist, white to light gray and pink bentonite layer was encountered between the depths of approximately 90 and 100 feet BGS. The lower portion of the Otay Formation is a silty to clayey, fine to coarse sand with gravels, is described as a gritstone and has been included with the Sweetwater Formation in some past descriptions in the literature.

Sweetwater Formation (Tsw). The Sweetwater Formation was encountered between the depths of approximately 228 and 330 feet BGS. The Sweetwater Formation encountered is generally comprised of very moist, dense to very dense, reddish brown, silty claystone with gravels.

Mission Valley Formation (Tmv). The Mission Valley Formation was encountered from the depth of approximately 330 feet BGS to the maximum depth drilled of 337 feet BGS. The Mission Valley Formation encountered is comprised of dense, moist, light yellowish brown, siltstone with traces of very fine sand and clay.

Depth to Groundwater

Two water bearing zones were encountered during the exploratory boring activities. The upper zone is described as a perched water layer and was encountered at depth of approximately 167 feet below top of casing (TOC). Monitoring Well MW1 is screened to intercept this zone. The lower zone encountered is described as the regional unconfined aquifer and was encountered at a depth of approximately 278 feet TOC (275 feet BGS) during the advancement of the borehole in which Monitoring Well MW2 was installed. However, prior to sampling, the water level in this well decreased to approximately 283 feet TOC (280 feet BGS). Monitoring Well MW2 is screened to intercept this zone. The approximate ground surface elevation adjacent to the two monitoring wells, based upon the USGS Imperial Beach, California Quadrangle Topographic Map

(1967), is approximately 440 feet above mean sea level (MSL). The approximate elevations of the upper and lower aquifers encountered are 280 feet MSL and 160 feet MSL, respectively.

Laboratory Results: Soil Samples

Six of the drive soil samples collected were selected for laboratory analysis. Six soil samples were analyzed for total lead following EPA Test Method 6010 and five soil samples were analyzed for total copper following EPA Test Method 6010. Additionally, one soil sample was also analyzed for halogenated volatile organics following EPA Test Method 8010. Copies of the laboratory results and chain of custody documentation for the soil samples are presented in Appendix C and summarized in Table III. The depths at which the samples were collected are denoted on the logs of the exploratory borings, presented as Appendix B.

A review of the laboratory test results indicates that the soil samples analyzed exhibited reported total lead concentrations ranging from 9.6 to 29.1 milligrams per kilogram (mg/kg) and total copper concentrations ranging from 6.2 to 28.4 mg/kg.

A review of the laboratory test results indicates that the soil sample (MW2-4) subjected to analysis by EPA Test Method 8010 did not exhibit reported concentrations of halogenated volatile organic compounds greater than the laboratory detection limits.

GROUNDWATER MONITORING WELLS

Monitoring Well Installation

Pursuant to the Well Permit W93683 approved July 29, 1993, two temporary groundwater monitoring wells were installed within the above-noted exploratory borings on March 27 and April 5, 1994. Copies of the well permit application, permit extension, and well log submittal documents are presented in Appendix A.

The wells were installed to depths of approximately 177 and 332 feet BGS, respectively. Each monitoring well is constructed with 2-inch diameter, threaded flush joint polyvinyl chloride (PVC) casing with a 0.020-inch slotted screen section approximately 15 or 20 feet long. Monitoring Well MW1 is constructed with schedule 40 casing, while Monitoring Well MW2 is constructed with schedule 80 casing. The annular space surrounding the well screen was backfilled with Number 3 Lonestar sand to approximately 2 feet above the top of the well screen. A 2-foot thick layer of bentonite chips, hydrated with tap water, was placed above the sand pack. The remaining annular space above the bentonite chips was backfilled with a bentonite grout mixture pumped downhole through a tremie pipe. A standpipe wellhead cover was provided for each well. The well cover was set in a concrete pad measuring approximately 3 feet square. Descriptive boring/well logs depicting the construction of the wells are presented in Appendix B. The approximate locations of the groundwater monitoring wells are depicted in Figure 2.

Monitoring Well Development

The temporary groundwater monitoring wells were developed by Multi-Well Systems on April 13 and 14, 1994 using compressed air. The well development technique consisted of repeatedly moving a one-inch diameter pipe equipped with an air jet nozzle through the screened section of each well while forcing compressed air through the nozzle. When water production ceased at the top of casing, the system was temporarily shut down and the well was allowed to recover. The process was conducted a minimum of five iterations for each well.

GROUNDWATER MONITORING ACTIVITIES

Groundwater Sampling

Monitoring Well MW1 was sampled prior to well development on March 29, 1994 and subsequent to well development on April 15 and May 6, 1994. Monitoring Well MW2 was sampled on April 19, 1994.

Prior to each sampling event, a GEC representative measured the depth to groundwater and observed for non-aqueous phase petroleum product within each well. Monitoring Well MW1 was purged and groundwater samples were collected following the protocol described in the Scope of Services section of this report. Due to construction limitations, purging was not feasible for Monitoring Well MW2. The well purging and sampling activities are documented on the "Temporary Groundwater Monitoring Well Sampling Worksheet" presented as Appendix E.

Results of Field Measurements

During the Monitoring Well MW1 purging activities, measurements of temperature, pH, and conductivity were obtained from the purge water. The temperature, pH, and conductivity measurements obtained range from 71.9 to 76.0 degrees Fahrenheit, 7.81 to 7.94, and 3,210 to 1,000 mmhos, respectively. The groundwater sample obtained from Monitoring Well MW2 was also tested in the field for temperature, pH, and conductivity. These measurements are 80.2 degrees Fahrenheit, 11.94, and 4930 μmhos, respectively. The temperature and conductivity measurements appear to be similar to those obtained during the purging of Monitoring Well MW1. However, the pH measurement obtained from the groundwater sample collected from Monitoring Well MW1 appears to be elevated compared to the pH measurements obtained during purging of Monitoring Well MW1. Within the exception of the pH measurement obtained from the groundwater sample collected from Monitoring Well MW2, the temperature, pH, and conductivity measurements appear to be consistent with measurements obtained from other groundwater wells in the hydrologic unit of which the site is a part. It is surmised that the elevated pH measurement may be due to the potential presence of grout materials (e.g., cement) used to construct the wells, within the well casing.

The groundwater samples collected during these sampling iterations were subjected to laboratory analysis for CCR Title 22 total metals following various test methods. One sample obtained from Monitoring Well MW1 was additionally tested for volatile organics following EPA Test Method 8240.

Free Product Occurrence

The presence of non-aqueous phase petroleum product was not detected in Wells MW1 or MW2 during the groundwater sampling events.

Laboratory Results: Groundwater Samples

Copies of the laboratory results and chain of custody documentation for the groundwater samples obtained are presented in Appendix C. The results for total metals analysis are summarized in Table III.

A review of the laboratory test results indicates that the groundwater sample obtained from Monitoring Well MW1 on March 29 and May 6, 1994 did not exhibit concentrations of volatile organic compounds or semi-volatile organic compounds greater than the laboratory detection limits for the various compounds tested, with the exception of an unknown hydrocarbon and an unknown oxygenated hydrocarbon with concentrations of 8 μg/l each.

A review of the laboratory results for the groundwater samples collected from Monitoring Wells MW1 and MW2 indicates that detectable concentrations of total metals were reported for the four samples obtained on March 29, April 15, April 19, and May 6, 1994. The reported metals concentrations for the samples collected on March 29, April 15, and April 19, 1994 are less than the Maximum Contaminant Levels (MCLs) for the State of California primary drinking water standards, and for the secondary drinking water standards, with the exception of Sample MW2-1A

collected on April 19, 1994, which exhibited a chromium concentration of 0.14 milligrams per liter (mg/l) and a selenium concentration of 0.012 mg/l and Sample MW-1 collected on May 6, 1994, which exhibited a selenium concentration of 0.011 mg/l. The MCLs for these compounds are 0.05 mg/l (chromium) and 0.01 mg/l (selenium) (see Table III).

SUMMARY OF FINDINGS

Vadose Monitoring

1. Two iterations of vadose monitoring activities were performed for the three existing vadose monitoring wells (Wells V1, V2, and V3). Liquid was not detected in the wells.

Soil-Gas Monitoring

2. Two iterations of soil-gas monitoring activities were performed for the seven existing soil-gas monitoring wells (Wells G1 through G7). Detectable concentrations of organic vapors were measured (using a Century Foxboro Model 128 Organic Vapor Analyzer calibrated for methane) in two of the wells. The greatest measured concentration (> 1000 ppm) was reported for the upper sample port (depth of 35 feet BGS) in Well G6 (Sample G6-G).

3. The soil-gas sample exhibiting the greatest concentration of organic vapor (Sample G6-G) was subjected to laboratory analysis for methane gas. Sample G6-G exhibited a methane concentration of 3300 ppm.

Limited Soil Sampling

4. A review of laboratory test results for six soil samples obtained from the two exploratory borings advanced at the site indicates that these samples exhibited total lead concentrations ranging

from 9.6 to 29.1 milligrams per kilogram (mg/kg) and total copper concentrations ranging from 6.2 to 28.4 mg/kg.

5. A review of laboratory test results for one soil sample subjected to testing for halogenated volatile organics (following EPA Test Method 8010) obtained during the onsite exploratory boring activities did not exhibit reported concentrations of halogenated volatile organic compounds greater than the laboratory detection limits.

Limited Groundwater Sampling

6. A review of laboratory test results indicates that the groundwater samples obtained from Monitoring Well MW1 on March 29, and May 6, 1994 did not exhibit concentrations of volatile organic compounds (following EPA Test Method 8240) or semi-volatile organic compounds (following EPA Test Method 8270) greater than the laboratory detection limits for the various compounds tested.

7. A review of the laboratory test results for the groundwater samples collected from Monitoring Wells MW1 and MW2 indicates that detectable concentrations of CCR Title 22 total metals were reported for the four samples obtained on March 29, April 15, April 19, and May 6, 1994. The reported metals concentrations for these samples are less than the Maximum Contaminant Levels (MCLs) for the State of California primary drinking water standards, and less than the California secondary drinking water standard with the exception of Sample MW2-1A

collected on April 19, 1994, which exhibited a chromium concentration of 0.14 milligrams per liter (mg/l) and a selenium concentration of 0.012 mg/l and Sample MW-1 collected on May 6, 1994, which exhibited a selenium concentration of 0.011 mg/l. The MCLs for these compounds are 0.05 mg/l (chromium) and 0.01 mg/l (selenium).

CONCLUSIONS AND RECOMMENDATIONS

1. The results of the limited environmental engineering activities performed during the preparation of this report do not indicate the presence of the compounds surveyed within the soils or groundwater beneath the subject site at concentrations likely to require action by the local regulatory agencies (i.e., SAM Division and RWQCB).

2. It is recommended that two to three additional temporary groundwater monitoring wells be installed at the site to obtain additional information regarding the potential presence of hazardous materials beneath the site.

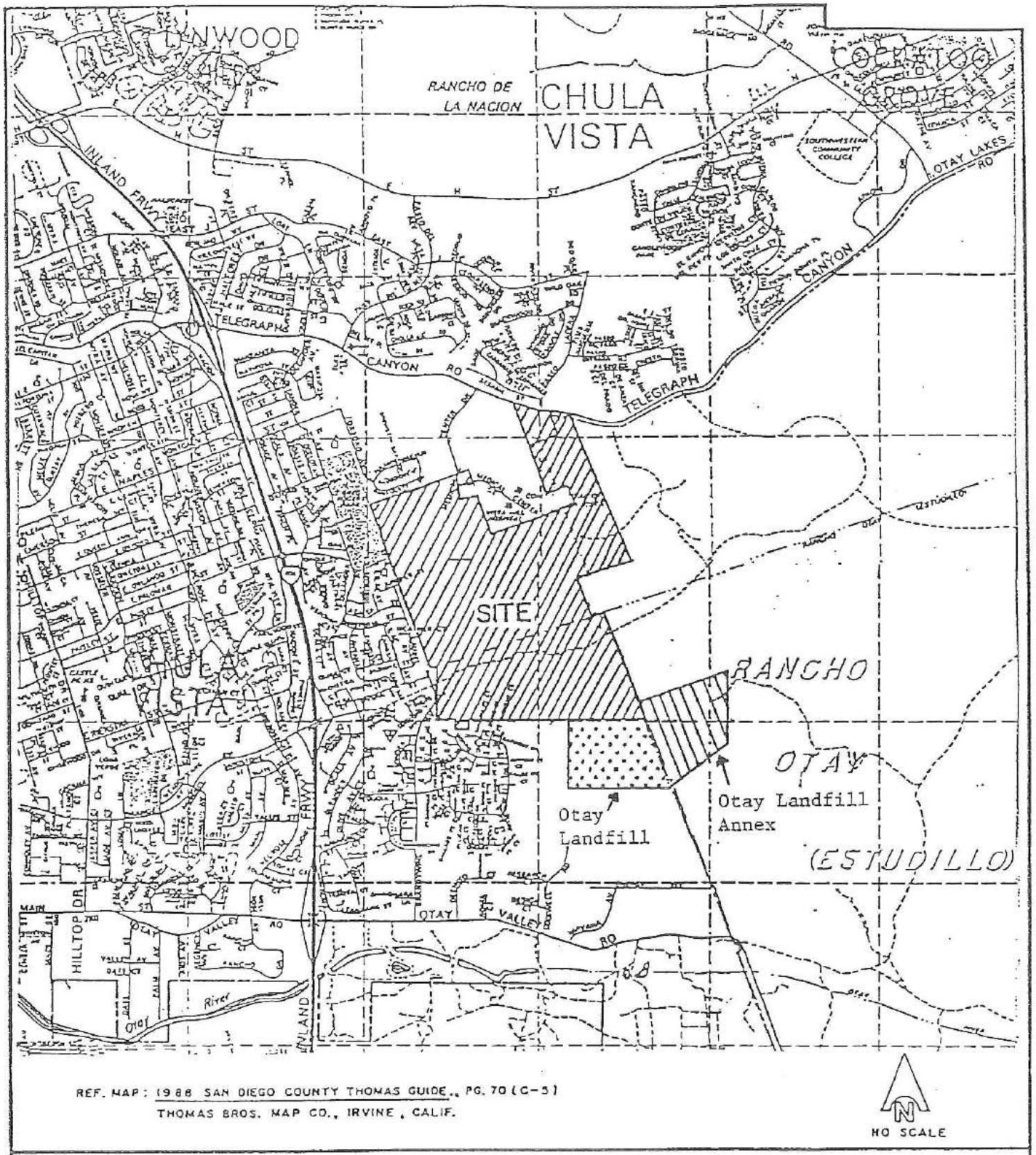
3. It is recommended that the existing and proposed temporary groundwater monitoring wells be monitored on a quarterly basis for the presence of hazardous compounds for the period of at least one year.

4. It is recommended that at least one of the proposed groundwater monitoring wells be situated downgradient of the known fault situated on the Otay Landfill property.

REPORT LIMITATIONS

This report has been prepared exclusively for the Client (Portfolio Investments Limited). Information obtained is only relevant as of the date of this report. The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings and conclusions in this report are predicated on the results of limited soil sampling and laboratory analysis. The absence of significant indicators which suggest that hazardous materials/wastes have impacted the site does not preclude the presence of hazardous materials/wastes on the property.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee of the results of the study is implied within the intent of this report. GEC strived to perform the services rendered in accordance with the local standard of care in the geographic region at the time the services were rendered.



VICINITY MAP

RANCHO DEL SUR

SAN DIEGO COUNTY, CALIFORNIA

FIGURE 1

Project No. 08080-06-05
June 3, 1994

TABLE I

SUMMARY OF GAS WELL MONITORING

April 15, 1994

PROBE	FILTER PACK INTERVAL (feet above MSL)	TIME	COMBUSTIBLE GAS (% LEL)	HYDROGEN SULFIDE (ppm)	OXYGEN (%)	OVA (ppm)
G1-G UPPER	417-422	1335	1	0	17.5	ND
G1-R MIDDLE	401-406	1340	0	0	17.7	ND
G1-B LOWER	373-380	1330	0	0	18.1	ND
G2-G UPPER	440-445	1320	0	0	19.2	ND
G2-R MIDDLE	423-428	1325	0	0	18.6	ND
G2-B LOWER	390-397	1315	0	0	17.9	ND
G3-G UPPER	420-425	1410	0	0	19.3	ND
G3-R MIDDLE	396-401	1415	0	0	19.4	ND
G3-B LOWER	366-373	1420	0	0	19.2	ND
G4-G UPPER	448-453	1300	0	0	18.7	ND
G4-R MIDDLE	422-427	1305	0	0	19.2	ND
G4-B LOWER	390-397	1255	0	0	19.1	ND

Project No. 08080-06-05
June 3, 1994

TABLE I (continued)

SUMMARY OF GAS WELL MONITORING

April 15, 1994

PROBE	FILTER PACK INTERVAL (feet above MSL)	TIME	COMBUSTIBLE GAS (% LEL)	HYDROGEN SULFIDE (ppm)	OXYGEN (%)	OVA (ppm)
G5-G UPPER	415-420	1155	0	0	19.6	9
G5-R LOWER	398-405	1205	0	0	19.4	8
G6-G UPPER	418-423	1225	13	0	15.6	> 1,000
G6-R MIDDLE	401-408	1215	0	0	14.0	ND
G6-B LOWER	373-380	1220	0	0	17.8	ND
G7-G UPPER	424-429	1240	0	0	19.4	ND
G7-R MIDDLE	405-100	1235	0	0	19.4	ND
G7-B LOWER	379-386	1245	0	0	19.3	ND

Notes:
MSL = Mean Sea Level
LEL = Lower Explosive Limit
OVA = Organic Vapor Analyzer
PPM = Parts Per Million

Project No. 08080-06-05
June 3, 1994

TABLE II

SUMMARY OF GAS WELL MONITORING

May 6, 1994

PROBE	FILTER PACK INTERVAL (feet above MSL)	TIME	COMBUSTIBLE GAS (% LEL)	HYDROGEN SULFIDE (ppm)	OXYGEN (%)	OVA (ppm)
G1-G UPPER	417-422	1335	1	0	20.0	ND
G1-R MIDDLE	401-406	1455	0	0	20.8	35
G1-B LOWER	373-380	1500	0	0	20.4	ND
G2-G UPPER	440-445	1516	0	0	20.6	ND
G2-R MIDDLE	423-428	1512	0	0	20.4	ND
G2-B LOWER	390-397	1514	0	0	20.5	ND
G3-G UPPER	420-425	1534	0	0	20.7	ND
G3-R MIDDLE	396-401	1530	0	0	20.5	ND
G3-B LOWER	366-373	1544	0	0	19.2	ND
G4-G UPPER	448-453	1550	0	0	20.4	ND
G4-R MIDDLE	422-427	1546	0	0	20.7	ND
G4-B LOWER	390-397	1555	0	0	20.8	ND

Project No. 08080-06-05
June 3, 1994

TABLE II (continued)

SUMMARY OF GAS WELL MONITORING

May 6, 1994

PROBE	FILTER PACK INTERVAL (feet above MSL)	TIME	COMBUSTIBLE GAS (% LEL)	HYDROGEN SULFIDE (ppm)	OXYGEN (%)	OVA (ppm)
G5-G UPPER	415-420	1554	0	0	20.7	ND
G5-R LOWER	398-405	1558	0	0	20.8	3
G6-G UPPER	418-423	5/9/94	8	0	18.2	> 1,000
G6-R MIDDLE	401-408	1606	4	0	15.0	ND
G6-B LOWER	373-380	1611	8	0	19.3	ND
G7-G UPPER	424-429	1626	0	0	20.7	ND
G7-R MIDDLE	405-100	1624	0	0	20.7	ND
G7-B LOWER	379-386	1626	0	0	20.7	ND

Notes:
MSL = Mean Sea Level
LEL = Lower Explosive Limit
OVA = Organic Vapor Analyzer
PPM = Parts Per Million

Project No. 08080-06-05
June 3, 1994

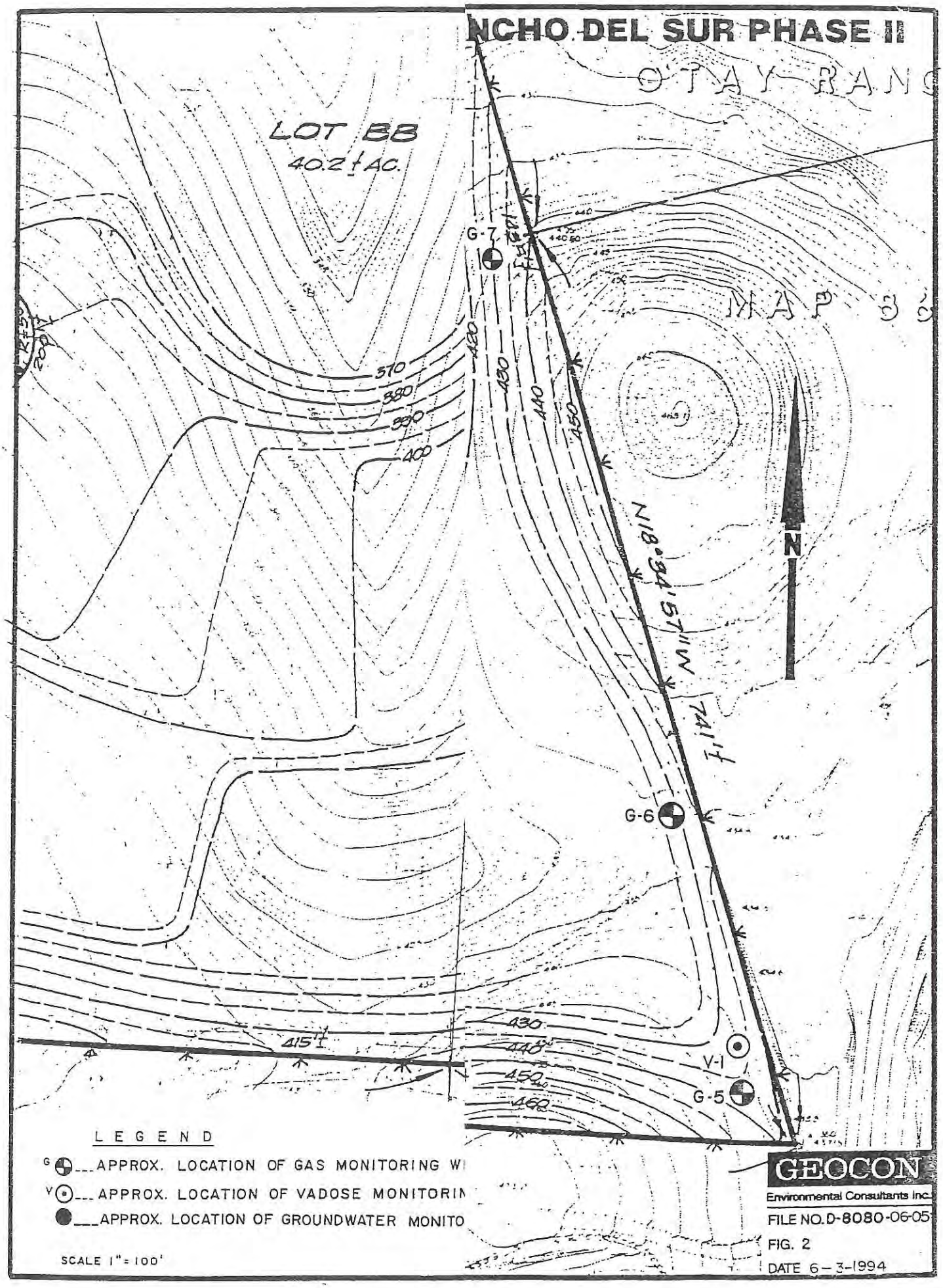
TABLE III

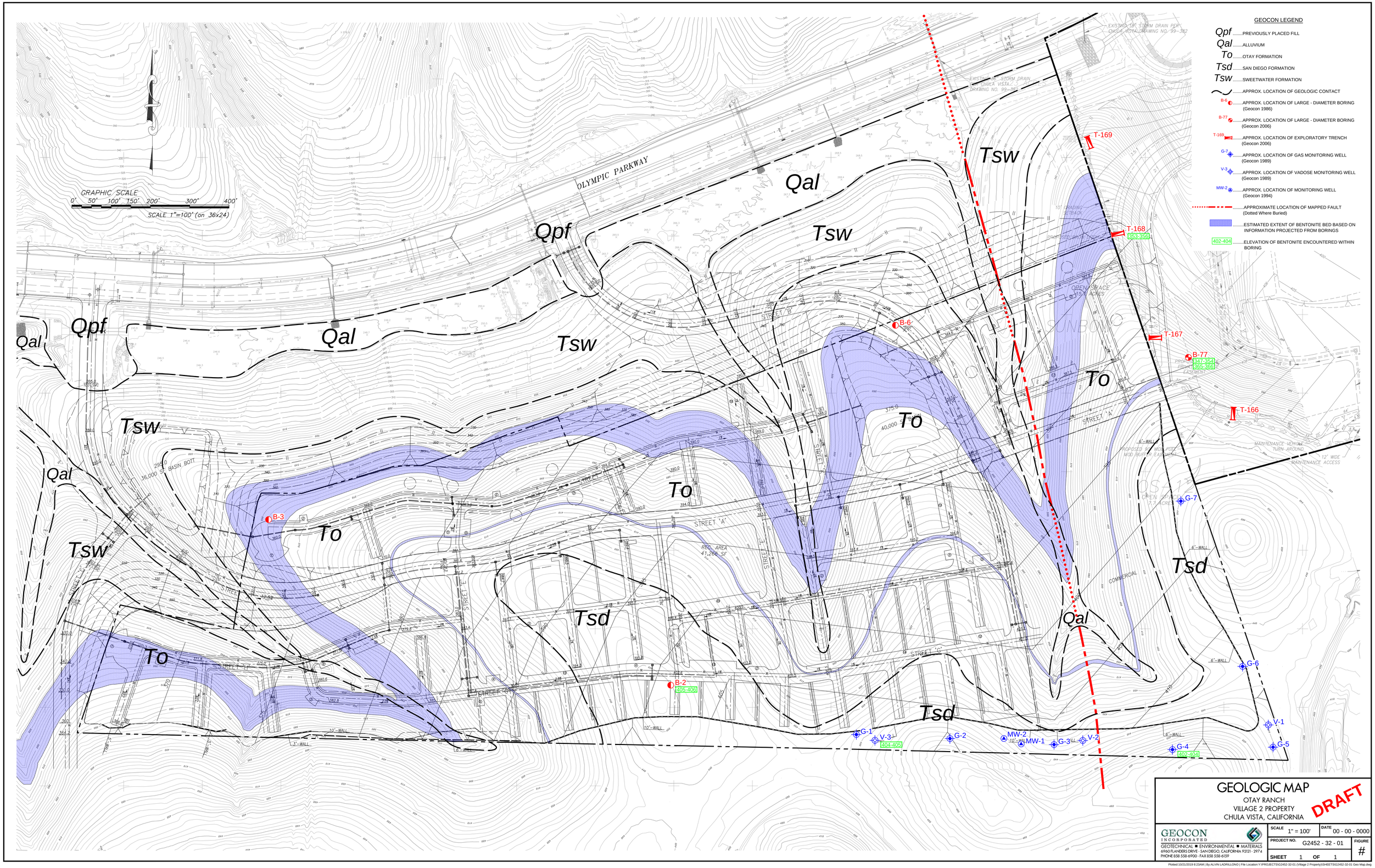
SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS

Total Metals: Groundwater Samples

Sample I.D.: Date: Units:	MW1 3/29/94 (mg/l)	MW1-A 4/15/94 (mg/l)	MW1 5/6/94 (mg/l)	MW2-1A 4/19/94 (mg/l)	MCL (mg/l)	TTLC (mg/kg)	STLC (mg/l)
Antimony	<0.03	<0.03	<0.03	<0.03	NA	500	15
Arsenic	0.008	0.011	0.006	0.005	0.05	500	5.0
Barium	0.39	0.18	.014	0.18	1.0	10,000	100
Beryllium	<0.005	<0.005	<0.01	<0.005	NA	75	0.75
Cadmium	<0.0005	0.0009	0.0006	<0.0005	0.010	100	1.0
Cobalt	0.01	<0.01	<0.01	<0.01	NA	8,000	80
Chromium	0.01	<0.01	<0.01	0.14	0.05	500	5
Copper	<0.01	<0.01	<0.01	<0.01	1.0 *s	2,500	25
Lead	0.009	<0.002	0.004	0.002	0.05	1,000	5.0
Mercury	<0.0005	<0.0005	<0.0005	<0.0005	0.002	20	0.2
Molybdenum	0.03	0.02	0.02	0.01	NA	3,500	350
Nickel	0.01	<0.01	<0.01	<0.01	NA	2,000	20
Selenium	<0.02	0.005	0.011	0.012	0.01	100	1.0
Silver	<0.01	<0.01	<0.01	<0.01	0.05	500	5
Thallium	<0.003	<0.002	<0.003	<0.003	NA	700	7.0
Vanadium	0.08	0.02	0.03	0.06	NA	2,400	24
Zinc	0.06	0.63	0.10	0.42	5.0 *s	5,000	250

notes:
mg/l = milligrams per liter
mg/kg = milligrams per kilogram
MCL = Maximum Contaminant Level (primary drinking water standards)
*s = secondary drinking water standards
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
NA = not available for constituent


NCHO DEL SUR PHASE II
LOT 88
40.2 ± AC.
G-7
G-6
G-5
V-1
N18°34'57"W
741'
415'
370
380
390
400
420
430
440
450
460
N
LEGEND
G ___ APPROX. LOCATION OF GAS MONITORING WI
V ___ APPROX. LOCATION OF VADOSE MONITORIN
___ APPROX. LOCATION OF GROUNDWATER MONITO
SCALE 1" = 100'
GEOCON
Environmental Consultants Inc.
FILE NO. D-8080-06-05
FIG. 2
DATE 6-3-1994


GEOCON LEGEND
Qpf ..... PREVIOUSLY PLACED FILL
Qal ..... ALLUVIUM
To ..... OTAY FORMATION
Tsd ..... SAN DIEGO FORMATION
Tsw ..... SWEETWATER FORMATION
..... APPROX. LOCATION OF GEOLOGIC CONTACT
B-6 ..... APPROX. LOCATION OF LARGE - DIAMETER BORING (Geocon 1986)
B-77 ..... APPROX. LOCATION OF LARGE - DIAMETER BORING (Geocon 2006)
T-169 ..... APPROX. LOCATION OF EXPLORATORY TRENCH (Geocon 2006)
G-7 ..... APPROX. LOCATION OF GAS MONITORING WELL (Geocon 1989)
V-3 ..... APPROX. LOCATION OF VADOSE MONITORING WELL (Geocon 1989)
MW-2 ..... APPROX. LOCATION OF MONITORING WELL (Geocon 1994)
..... APPROXIMATE LOCATION OF MAPPED FAULT (Dotted Where Buried)
..... ESTIMATED EXTENT OF BENTONITE BED BASED ON INFORMATION PROJECTED FROM BORINGS
402-404 ..... ELEVATION OF BENTONITE ENCOUNTERED WITHIN BORING
GRAPHIC SCALE
0' 50' 100' 150' 200' 300' 400'
SCALE 1"=100' (on 36x24)
OLYMPIC PARKWAY
Qpf
Qal
Tsw
To
Tsd
T-169
T-168
352-356
T-167
B-77
347-354
365-366
T-166
B-6
B-3
B-2
205-406
G-7
G-6
G-1
V-3
404-405
G-2
MW-2
MW-1
G-3
V-2
G-4
402-404
V-1
G-5
STREET 'A'
STREET 'B'
STREET 'C'
STREET 'E'
STREET 'F'
STREET 'G'
STREET 'H'
STREET 'J'
STREET 'L'
STREET 'S'
STREET 'T'
STREET 'U'
STREET 'V'
STREET 'W'
STREET 'X'
STREET 'Y'
STREET 'Z'
OPEN SPACE
COMMERCIAL
MAINTENANCE VEHICLE TURN-AROUND
12' WIDE MAINTENANCE ACCESS
6'-WALL
10'-WALL
3'-WALL
GEOLOGIC MAP
OTAY RANCH
VILLAGE 2 PROPERTY
CHULA VISTA, CALIFORNIA
DRAFT
GEOCON INCORPORATED
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 2974
PHONE 858 558-6900 - FAX 858 558-6159
SCALE 1" = 100'
DATE 00 - 00 - 0000
PROJECT NO. G2452 - 32 - 01
FIGURE #
SHEET 1 OF 1
Plotted:10/21/2019 8:23AM | By:ALVIN LADRILLONO | File Location:Y:\PROJECTS\G2452-32-01 (Village 2 Property)\SHEETS\G2452-32-01 Geo Map.dwg

APPENDIX C
EDR Radius Map Report

Sunbow Chula Vista
Olympic Parkway
Chula Vista, CA 91911

Inquiry Number: 5914677.2s
December 23, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

OLYMPIC PARKWAY
CHULA VISTA, CA 91911

COORDINATES

Latitude (North):	32.6079420 - 32˚ 36' 28.59''
Longitude (West):	117.0186980 - 117˚ 1' 7.31''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	498245.6
UTM Y (Meters):	3607635.0
Elevation:	345 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5622818 IMPERIAL BEACH, CA
Version Date:	2012
Northeast Map:	5629178 JAMUL MOUNTAINS, CA
Version Date:	2012
Southeast Map:	5622896 OTAY MESA, CA
Version Date:	2012
Northwest Map:	5629176 NATIONAL CITY, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140530, 20140805
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
OLYMPIC PARKWAY
CHULA VISTA, CA 91911

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	HERNANDEZ CUSTOM PAI	599 PORTSMOUTH DR	RCRA-SQG	Lower	164, 0.031, West
2		1542 SONORA DR #282	RCRA NonGen / NLR	Lower	1084, 0.205, WSW
3		570 RIVERA DRIVE	RCRA NonGen / NLR	Lower	1150, 0.218, West
A4	OTAY ANNEX SANITARY	1700 MAXWELL ROAD	CA ENVIROSTOR, CA SWF/LF, CA LDS, CA ENF, CA...	Higher	1901, 0.360, SSE
A5	BKK CORPORATION	1700 MAXWELL RD	CA SWF/LF, CA San Diego Co. HMMD, CA CERS HAZ...	Higher	1901, 0.360, SSE
A6	APPROPRIATE TECHNOLO	1700 MAXWELL RD	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG, 2020	Higher	1901, 0.360, SSE
A7	A&W SMELTER AND REFI	SILVER QUEEN RD	SEMS, RCRA-SQG, PRP, LEAD SMELTERS, CA HAZNET	Higher	1901, 0.360, SSE
A8	BKK CORPORATION	1700 MAXWELL ROAD	CA SWF/LF, CA San Diego Co. HMMD, CA CERS HAZ...	Higher	1901, 0.360, SSE
A9	OTAY SANITARY LANDFI	OTAY VALLEY ROAD	CA ENVIROSTOR	Higher	1910, 0.362, SSE
10	OTAY CLASS 1 LANDFIL	OTAY VALLEY RD 2 MI	CA WMUDS/SWAT, CA HIST CORTESE	Lower	2191, 0.415, South
11	SUNBOW ELEMENTARY SC	EAST PALOMAR STREET/	CA ENVIROSTOR, CA SCH	Higher	2555, 0.484, NNE
12	OMAR RENDERING LANDF	1886 AUTO PARK PLACE	CA DEED, CA LDS, CA BOND EXP. PLAN, CA Cortese, CA...	Lower	3206, 0.607, SSW
13	NAKANO FARMS	4501 OTAY VALLEY RD	CA ENVIROSTOR, CA CPS-SLIC, CA San Diego Co. HMMD,...	Lower	4085, 0.774, SSW
14	APACHE SERVICES	4551 OTAY VALLEY ROA	CA ENVIROSTOR, CA BOND EXP. PLAN	Lower	4285, 0.812, South
15	PROPOSED OTAY RANCH	CAMINO PRADO	CA ENVIROSTOR, CA SCH	Lower	4285, 0.812, SE
16	OMAR RENDERING DISPO	4826 OTAY VALLEY ROA	CA ENVIROSTOR	Lower	4448, 0.842, SSE
17	BEHIND 536 HAMPSHIRE		CA Notify 65	Lower	4551, 0.862, NW

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

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-VSQG ..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

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

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

CA RESPONSE ..... State Response Sites

State and tribal leaking storage tank lists

CA LUST ..... Geotracker's Leaking Underground Fuel Tank Report

EXECUTIVE SUMMARY

CA SAN DIEGO CO. SAM.... Environmental Case Listing
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
CA UST..... Active UST Facilities
CA AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

CA VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

CA 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

CA SWRCY..... Recycler Database
CA 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
CA HIST Cal-Sites..... Historical Calsites Database
CA CDL..... Clandestine Drug Labs
CA Toxic Pits..... Toxic Pits Cleanup Act Sites
US CDL..... National Clandestine Laboratory Register
CA PFAS..... PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CA FID UST..... Facility Inventory Database
CA CERS TANKS..... California Environmental Reporting System (CERS) Tanks

Local Land Records

CA LIENS..... Environmental Liens Listing
LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

CA CHMIRS	California Hazardous Material Incident Report System
CA MCS	Military Cleanup Sites Listing
CA SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
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
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
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
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA CUPA Listings	CUPA Resources List
CA DRYCLEANERS	Cleaner Facilities
CA ICE	ICE
CA HWT	Registered Hazardous Waste Transporter Database
CA MINES	Mines Site Location Listing
CA MWMP	Medical Waste Management Program Listing
CA PEST LIC	Pesticide Regulation Licenses Listing
CA PROC	Certified Processors Database
CA UIC	UIC Listing
CA UIC GEO	UIC GEO (GEOTRACKER)
CA WASTEWATER PITS	Oil Wastewater Pits Listing
CA WDS	Waste Discharge System
CA WIP	Well Investigation Program Case List
CA MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT	PROJECT (GEOTRACKER)

EXECUTIVE SUMMARY

CA WDR..... Waste Discharge Requirements Listing
CA SAN DIEGO CO LOP..... Local Oversight Program Listing
CA NON-CASE INFO..... NON-CASE INFO (GEOTRACKER)
CA OTHER OIL GAS..... OTHER OIL & GAS (GEOTRACKER)
CA PROD WATER PONDS..... PROD WATER PONDS (GEOTRACKER)
CA SAMPLING POINT..... SAMPLING POINT (GEOTRACKER)
CA WELL STIM PROJ..... Well Stimulation Project (GEOTRACKER)
MINES MRDS..... Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF..... Recovered Government Archive Solid Waste Facilities List
CA RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 10/25/2019 has revealed that there is 1 SEMS

site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
A&W SMELTER AND REFI	***SILVER QUEEN RD***	***SSE 1/4 - 1/2 (0.360 mi.)***	***A7***	***118***
Site ID: 0904755				
EPA Id: CAD982416604				

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 10/25/2019 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
APPROPRIATE TECHNOLO	***1700 MAXWELL RD***	***SSE 1/4 - 1/2 (0.360 mi.)***	***A6***	***76***
Site ID: 0902662				
EPA Id: CAT080010101				

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/16/2019 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
APPROPRIATE TECHNOLO	***1700 MAXWELL RD***	***SSE 1/4 - 1/2 (0.360 mi.)***	***A6***	***76***
EPA ID:: CAT080010101				

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA)

of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 12/16/2019 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
APPROPRIATE TECHNOLO	***1700 MAXWELL RD***	***SSE 1/4 - 1/2 (0.360 mi.)***	***A6***	***76***
EPA ID:: CAT080010101				

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 12/16/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HERNANDEZ CUSTOM PAI	599 PORTSMOUTH DR	W 0 - 1/8 (0.031 mi.)	1	9
EPA ID:: CAR000160580				

State- and tribal - equivalent CERCLIS

CA 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 CA ENVIROSTOR list, as provided by EDR, and dated 07/29/2019 has revealed that there are 7 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OTAY ANNEX SANITARY	***1700 MAXWELL ROAD***	***SSE 1/4 - 1/2 (0.360 mi.)***	***A4***	***11***
Status: No Further Action				
Status: Refer: RCRA				
Facility Id: 80001820				
Facility Id: 37730291				
OTAY SANITARY LANDFI	OTAY VALLEY ROAD	SSE 1/4 - 1/2 (0.362 mi.)	A9	135

Status: Refer: RWQCB Facility Id: 37490031				
SUNBOW ELEMENTARY SC Status: No Action Required Facility Id: 37650013	***EAST PALOMAR STREET/***	***NNE 1/4 - 1/2 (0.484 mi.)***	***11***	***140***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NAKANO FARMS Status: Refer: Other Agency Facility Id: 37730292	***4501 OTAY VALLEY RD***	***SSW 1/2 - 1 (0.774 mi.)***	***13***	***174***
APACHE SERVICES Status: Refer: RWQCB Facility Id: 37500032	***4551 OTAY VALLEY ROA***	***S 1/2 - 1 (0.812 mi.)***	***14***	***177***
PROPOSED OTAY RANCH Status: Active Facility Id: 60002706	***CAMINO PRADO***	***SE 1/2 - 1 (0.812 mi.)***	***15***	***179***
OMAR RENDERING DISPO Status: Refer: RWQCB Facility Id: 37200001	4826 OTAY VALLEY ROA	SSE 1/2 - 1 (0.842 mi.)	16	182

State and tribal landfill and/or solid waste disposal site lists

CA 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 CA SWF/LF list, as provided by EDR, has revealed that there are 3 CA SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OTAY ANNEX SANITARY Database: SAN DIEGO CO. LF, Date of Government Version: 04/18/2018 Database: SWF/LF (SWIS), Date of Government Version: 08/12/2019 Database: LOS ANGELES CO. LF, Date of Government Version: 10/15/2019 Facility ID: 37-AA-0010 Facility ID: 37-AA-0973 Facility ID: 37-AA-0975 Facility ID: 37-AA-0984 Site ID: 2718 Status: Active Operational Status: Active Operational Status: ACTIVE Regulation Status: Permitted Regulation Status: Notification Facility Status: ACTIVE SITES	***1700 MAXWELL ROAD***	***SSE 1/4 - 1/2 (0.360 mi.)***	***A4***	***11***
BKK CORPORATION Database: SAN DIEGO CO. LF, Date of Government Version: 04/18/2018 Operational Status: ACTIVE Facility Status: ACTIVE SITES	***1700 MAXWELL RD***	***SSE 1/4 - 1/2 (0.360 mi.)***	***A5***	***55***
BKK CORPORATION Database: SAN DIEGO CO. LF, Date of Government Version: 04/18/2018	***1700 MAXWELL ROAD***	***SSE 1/4 - 1/2 (0.360 mi.)***	***A8***	***123***

EXECUTIVE SUMMARY

Operational Status: ACTIVE
Facility Status: ACTIVE SITES

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the CA WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 CA WMUDS/SWAT site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OTAY CLASS 1 LANDFIL	***OTAY VALLEY RD 2 MI***	***S 1/4 - 1/2 (0.415 mi.)***	***10***	***136***

Other Ascertainable Records

RCRA NonGen / NLR: 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.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/16/2019 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1542 SONORA DR #282	WSW 1/8 - 1/4 (0.205 mi.)	2	10
Not reported	570 RIVERA DRIVE	W 1/8 - 1/4 (0.218 mi.)	3	10

CA BOND EXP. 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.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there are 2 CA BOND EXP. PLAN sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OMAR RENDERING LANDF	***1886 AUTO PARK PLACE***	***SSW 1/2 - 1 (0.607 mi.)***	***12***	***142***
APACHE SERVICES	***4551 OTAY VALLEY ROA***	***S 1/2 - 1 (0.812 mi.)***	***14***	***177***

EXECUTIVE SUMMARY

CA 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 CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 CA HIST CORTESE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OTAY CLASS 1 LANDFIL Reg Id: 9UT269 Reg Id: 9UT2426 Reg Id: 9 000000215 Reg Id: 37200001	***OTAY VALLEY RD 2 MI***	***S 1/4 - 1/2 (0.415 mi.)***	***10***	***136***

CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 08/19/2019 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BKK CORPORATION EPA Id: CAT080010101 Cleanup Status: CLOSED	***1700 MAXWELL RD***	***SSE 1/4 - 1/2 (0.360 mi.)***	***A5***	***55***

CA 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.

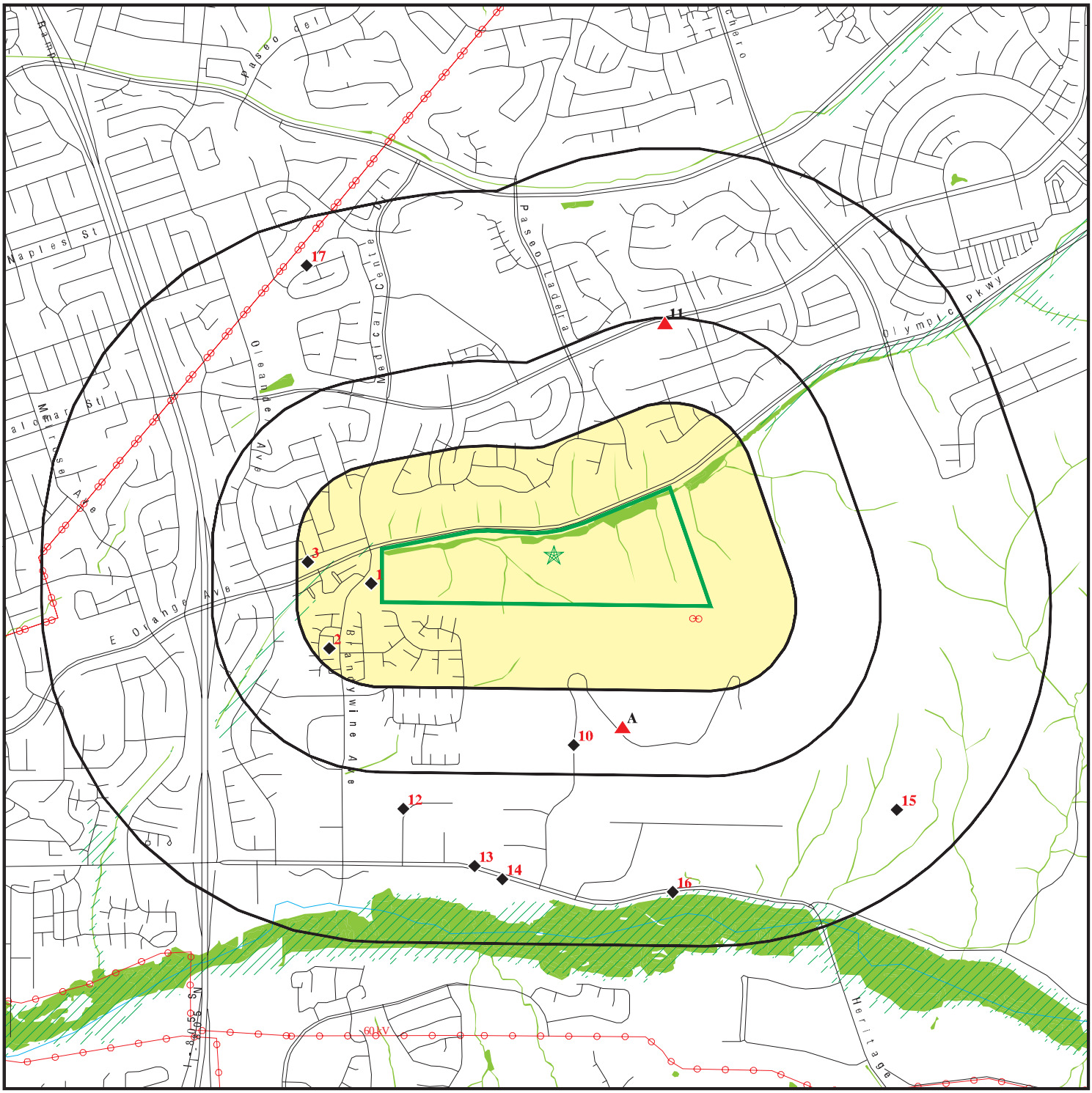
A review of the CA Notify 65 list, as provided by EDR, and dated 09/16/2019 has revealed that there is 1 CA Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BEHIND 536 HAMPSHIRE		NW 1/2 - 1 (0.862 mi.)	17	191

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5914677.2S



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

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

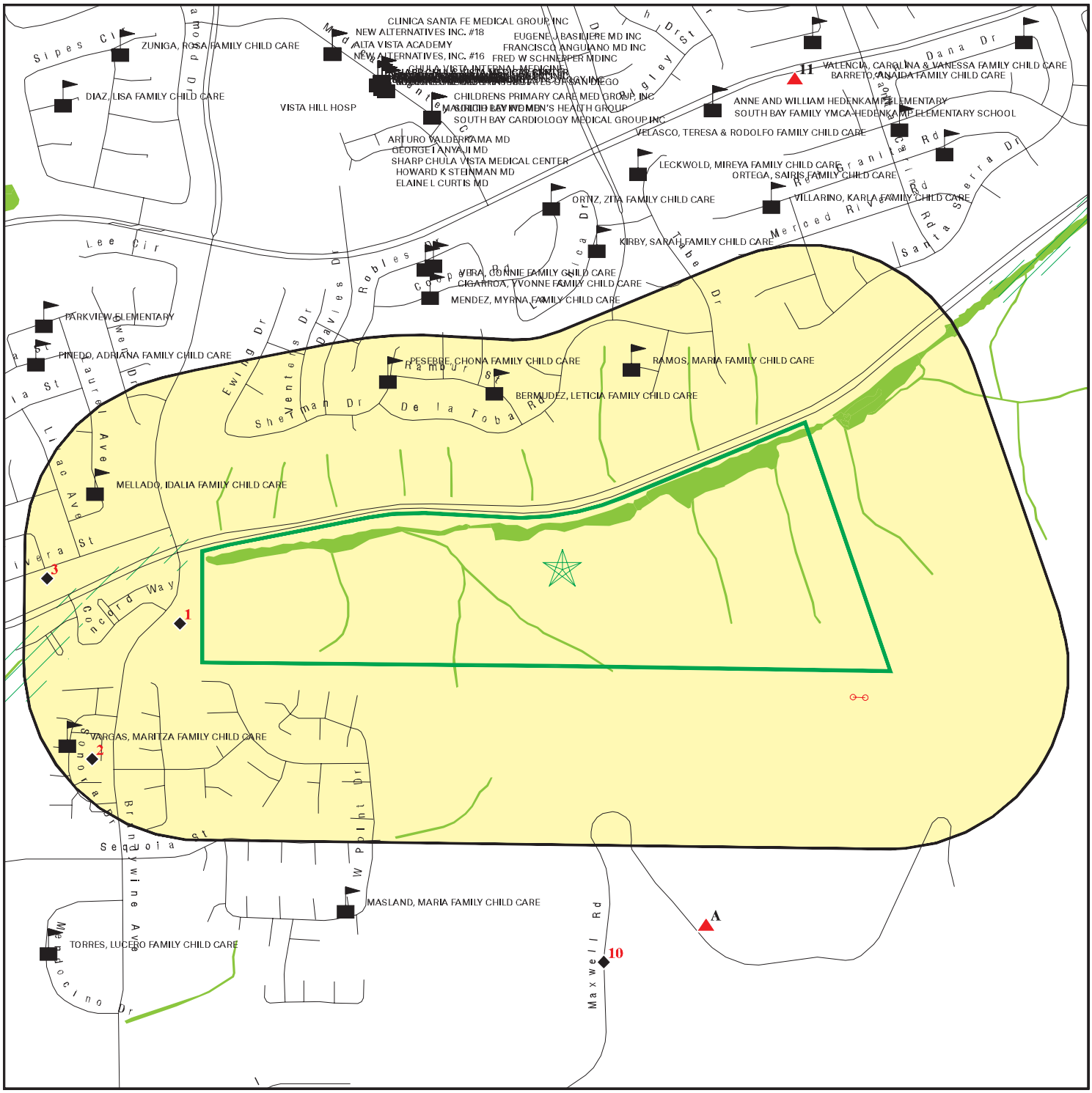
State Wetlands

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: Sunbow Chula Vista	CLIENT: GeoSyntec Consultants
ADDRESS: Olympic Parkway Chula Vista CA 91911	CONTACT: Rosemary Propst
LAT/LONG: 32.607942 / 117.018698	INQUIRY #: 5914677.2s DATE: December 23, 2019 12:31 pm

DETAIL MAP - 5914677.2S



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

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

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:	Sunbow Chula Vista	CLIENT:	GeoSyntec Consultants
ADDRESS:	Olympic Parkway Chula Vista CA 91911	CONTACT:	Rosemary Propst
		INQUIRY #:	5914677.2s
LAT/LONG:	32.607942 / 117.018698	DATE:	December 23, 2019 12:32 pm

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	1.000		0	0	0	0	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	1	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	1	0	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-VSQG	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								
CA RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	3	4	NR	7
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	3	NR	NR	3
State and tribal leaking storage tank lists								
CA LUST	0.500		0	0	0	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
CA SAN DIEGO CO. SAM	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	0	NR	NR	NR	0
CA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA 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								
CA WMUDS/SWAT	0.500		0	0	1	NR	NR	1
CA SWRCY	0.500		0	0	0	NR	NR	0
CA 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
CA HIST Cal-Sites	1.000		0	0	0	0	NR	0
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA San Diego Co. HMMD	0.001		0	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
CA CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CA PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		0	0	NR	NR	NR	0
CA HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CA CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	2	NR	NR	NR	2
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	1.000		0	0	0	0	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	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	2	NR	2
CA Cortese	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001		0	NR	NR	NR	NR	0
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	0	1	NR	NR	1
CA HWP	1.000		0	0	1	0	NR	1
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.250		0	0	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001		0	NR	NR	NR	NR	0
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	1	NR	1
CA UIC	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CA PROJECT	0.001		0	NR	NR	NR	NR	0
CA WDR	0.001		0	NR	NR	NR	NR	0
CA SAN DIEGO CO LOP	0.001		0	NR	NR	NR	NR	0
CA CIWQS	0.001		0	NR	NR	NR	NR	0
CA CERS	0.001		0	NR	NR	NR	NR	0
CA NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
CA OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CA PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
CA SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
CA WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	0.001		0	NR	NR	NR	NR	0
CA RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	1	2	13	7	0	23

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 West < 1/8 0.031 mi. 164 ft.	**HERNANDEZ CUSTOM PAINTING INC 599 PORTSMOUTH DR CHULA VISTA, CA 91911**	**RCRA-SQG**	**1007989113 CAR000160580**

Relative: Lower

Actual: 316 ft.

RCRA-SQG:

Date form received by agency:	02/18/2005
Facility name:	HERNANDEZ CUSTOM PAINTING INC
Facility address:	599 PORTSMOUTH DR UNIT C CHULA VISTA, CA 91911
EPA ID:	CAR000160580
Contact:	MARCOS HERNANDEZ
Contact address:	599 PORTSMOUTH DR UNIT C CHULA VISTA, CA 91911
Contact country:	US
Contact telephone:	619-421-9499
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	MARCOS HERNANDEZ
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1995
Owner/Op end date:	Not reported

Owner/operator name:	MARCOS HERNANDEZ
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1995
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

HERNANDEZ CUSTOM PAINTING INC (Continued) **1007989113**

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

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. 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.

Violation Status: No violations found

2
WSW
1/8-1/4
0.205 mi.
1084 ft.

1542 SONORA DR #282
CHULA VISTA, CA 91911

RCRA NonGen / NLR **1025843507**
CAC003023122

Relative:
Lower

Actual:
296 ft.

RCRA NonGen / NLR:

3
West
1/8-1/4
0.218 mi.
1150 ft.

570 RIVERA DRIVE
CHULA VISTA, CA 91911

RCRA NonGen / NLR **1025828181**
CAC003007734

Relative:
Lower

Actual:
223 ft.

RCRA NonGen / NLR:

A4 SSE 1/4-1/2 0.360 mi. 1901 ft.

Relative: Higher

Actual: 349 ft.

OTAY ANNEX SANITARY LANDFILL
1700 MAXWELL ROAD
CHULA VISTA, CA 91913

Site 1 of 6 in cluster A

CA ENVIROSTOR
CA SWF/LF
CA LDS
CA ENF
CA Financial Assurance
CA NPDES
CA CIWQS
CA CERS

S109287760
N/A

ENVIROSTOR:

Name:	APPROPRIATE TECHNOLOGIES II INC
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 919116156
Facility ID:	80001820
Status:	No Further Action
Status Date:	11/30/2018
Site Code:	Not reported
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	WM
Program Manager:	Not reported
Supervisor:	* Unknown
Division Branch:	Cleanup Cypress
Assembly:	79
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	32.60064
Longitude:	-117.0152
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAT080010101
Alias Type:	EPA Identification Number
Alias Name:	110000832243
Alias Type:	EPA (FRS #)
Alias Name:	37730291
Alias Type:	Envirostor ID Number
Alias Name:	80001820
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedy Construction Complete
Completed Date:	12/08/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Groundwater Migration Controlled
Completed Date:	12/08/2010
Comments:	Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 08/12/2010
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 05/27/1989
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Completed Document Type: Interim Measures Questionnaire
Completed Date: 09/28/1992
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 06/29/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Construction Complete
Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 06/29/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/01/1987
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Completed Document Type: RFI Workplan

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Completed Date: 06/14/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 09/15/1989
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Completed Document Type: RFI Report
Completed Date: 02/22/1995
Comments: The RFI report indicated there is no further investigation is necessary for Washout Pit and Unlined Effluent Pippes. However, this facility was constructed on a closed class I lsndfill which SD WB is the lead for this landfill.

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

Name: APPROPRIATE TECHNOLOGIES II
Address: 1700 MAXWELL RD.
City,State,Zip: CHULA VISTA, CA 92011
Facility ID: 37730291
Status: Refer: RCRA
Status Date: 05/01/1995
Site Code: 400205
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 79
Senate: 40
Special Program: * RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 32.60513
Longitude: -117.0049
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * UNSPECIFIED AQUEOUS SOLUTION
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Alias Name: BKK CORP
Alias Type: Alternate Name
Alias Name: CAT080010101
Alias Type: EPA Identification Number
Alias Name: 110000832243
Alias Type: EPA (FRS #)
Alias Name: 400205
Alias Type: Project Code (Site Code)
Alias Name: 37730291
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/01/1995
Comments: Database Validation Program determines NFA for DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/25/1994
Comments: CALSITES VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/12/1984
Comments: PERMIT(OTHER) PERMIT: HAZ WASTE FAC PERMIT # CAT- 080010101 WASTE: ACCEPTS HAZ/NON-HAZ LIQ SLUDGE & SLURRY WASTES IN BULK, HAZ LIQ/SOLID WST IN DRUMS OR OTHER APPROVED CONTAINERS UNACCEPTABLE WASTES-PCB'S,EXPLOSIVE, & RADIOACTIVE MATLS. BKK/AP-TECII OPER PLAN - 1)SOURCE ACT: LAND USE: SITE SURROUNDED BY OTAY LDFL. HAZ WASTE TREATMT,STORAGE,TRANSFER FAC ZONED FOR OPEN SPACE & PARK DEVELOPMENT NO DISP ONSITE. ALL STORAGE TEMPORARY. SUBMIT TO EPA PRELIM ASSESS DONE RCRA 3012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/12/1983
Comments: FACILITY IDENTIFIED ID FROM ERRIS

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SAN DIEGO CO. LF:
Name: OTAY LANDFILL RESEARCH COMPOSTING OPERATION
Address: 1700 MAXWELL RD
City,State,Zip: CHULA VISTA, CA

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Facility Status:	ACTIVE SITES
Operational Status:	ACTIVE
Region:	SAN DIEGO
SWIS Number:	37-AA-0984
Owner Name:	OTAY LANDFILL, INC.
Operator:	OTAY LANDFILL INC.
Facility Type:	ORGANIC MATERIALS HANDLING FACILITIES
Facility Type2:	RESEARCH COMPOSTING OPERATION
PERMTIER:	EA NOTIFICATION
Inspection Frequency:	QUARTERLY

SWF/LF (SWIS):

Name:	OTAY LANDFILL
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA
Facility ID:	37-AA-0010
Lat/Long:	32.60333 / -117.005
Owner Name:	Republic Services
Owner Telephone:	9547692400
Owner Address:	Not reported
Owner Address2:	18500 N. Allied Way
Owner City,St,Zip:	Phoenix, AZ 82054
Operational Status:	Active
Operator:	Otay Landfill Inc.
Operator Phone:	6194494053
Operator Address:	Not reported
Operator Address2:	8514 Mast Blvd.
Operator City,St,Zip:	Santee, CA 92071
Permit Date:	06/26/2017
Permit Status:	Permitted
Permitted Acreage:	Not reported
Activity:	Chipping and Grinding Activity Fac./ Op.
Regulation Status:	Permitted
Landuse Name:	Industrial,Agricultural
GIS Source:	Map
Category:	Composting
Unit Number:	03
Inspection Frequency:	Quarterly
Accepted Waste:	Green Materials
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	37-AA-0010
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:	32.60333 / -117.005

Name:	OTAY LANDFILL
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA
Facility ID:	37-AA-0010
Lat/Long:	32.60333 / -117.005

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Owner Name:	Republic Services
Owner Telephone:	9547692400
Owner Address:	Not reported
Owner Address2:	18500 N. Allied Way
Owner City,St,Zip:	Phoenix, AZ 82054
Operational Status:	Active
Operator:	Otay Landfill Inc.
Operator Phone:	6194494053
Operator Address:	Not reported
Operator Address2:	8514 Mast Blvd.
Operator City,St,Zip:	Santee, CA 92071
Permit Date:	06/26/2017
Permit Status:	Permitted
Permitted Acreage:	$409.00
Activity:	Solid Waste Landfill
Regulation Status:	Permitted
Landuse Name:	Industrial,Agricultural
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Monthly
Accepted Waste:	Agricultural,Ash,Construction/demolition,Contaminated soil,Dead Animals,Green Materials,Industrial,Inert,Mixed municipal,Other designated,Sludge (BioSolids),Tires
Closure Date:	02/28/2030
Closure Type:	Estimated
Disposal Acreage:	$230.00
SWIS Num:	37-AA-0010
Waste Discharge Requirement Num:	III
Program Type:	BOE Reporting Disposal Facility,Composite_Lined _LF_Cell(s),Financial Assurance Responsibilities,Remaining Capacity Landfill,Treated Wood Waste Acceptance
Permitted Throughput with Units:	6700
Actual Throughput with Units:	Tons/day
Permitted Capacity with Units:	61154000
Remaining Capacity:	21194008
Remaining Capacity with Units:	Cubic Yards
Lat/Long:	32.60333 / -117.005

Name:	OTAY CDI MVPF
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA
Facility ID:	37-AA-0973
Lat/Long:	32.60135 / -117.0128
Owner Name:	Otay Landfill Inc.
Owner Telephone:	6194494053
Owner Address:	Not reported
Owner Address2:	8514 Mast Blvd.
Owner City,St,Zip:	Santee, CA 92071
Operational Status:	Active
Operator:	Otay Landfill Inc.
Operator Phone:	6194494053
Operator Address:	Not reported
Operator Address2:	8514 Mast Blvd.
Operator City,St,Zip:	Santee, CA 92071
Permit Date:	07/09/2014
Permit Status:	Permitted

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Permitted Acreage:	$5.50
Activity:	Medium Vol CDI Debris Proc. Fac.
Regulation Status:	Permitted
Landuse Name:	Residential,Commercial
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Monthly
Accepted Waste:	Asphalt Shingles,Construction/demolition,Inert,Wood waste
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	37-AA-0973
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	174
Actual Throughput with Units:	Tons/day
Permitted Capacity with Units:	54288
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Tons/year
Lat/Long:	32.60135 / -117.0128

Name:	PLANTS CHOICE COMP MATERIAL HANDLING OP.
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA
Facility ID:	37-AA-0975
Lat/Long:	32.60333 / -117.005
Owner Name:	Otay Landfill Inc.
Owner Telephone:	6194494053
Owner Address:	Not reported
Owner Address2:	8514 Mast Blvd.
Owner City,St,Zip:	Santee, CA 92071
Operational Status:	Active
Operator:	Plants Choice, Inc.
Operator Phone:	6195859909
Operator Address:	Beng Hoe Ooi
Operator Address2:	PO Box 436050
Operator City,St,Zip:	San Ysidro, CA 92154
Permit Date:	01/25/2016
Permit Status:	Notification
Permitted Acreage:	$4.00
Activity:	Composting Operation (Green Waste)
Regulation Status:	Notification
Landuse Name:	Commercial
GIS Source:	Map
Category:	Composting
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Green Materials,Wood waste
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	37-AA-0975
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	200
Actual Throughput with Units:	Tons/day

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Permitted Capacity with Units: 40000
Remaining Capacity: Not reported
Remaining Capacity with Units: Tons/year
Lat/Long: 32.60333 / -117.005

Name: OTAY LANDFILL RESEARCH COMPOSTING OP.
Address: 1700 MAXWELL RD.
City,State,Zip: CHULA VISTA, CA
Facility ID: 37-AA-0984
Lat/Long: 32.60436 / -117.00536
Owner Name: Otay Landfill, Inc.
Owner Telephone: 6194213773
Owner Address: Neil Mohr
Owner Address2: 1700 Maxwell Rd.
Owner City,St,Zip: Chula Vista, CA 91912
Operational Status: Active
Operator: Otay Landfill, Inc.
Operator Phone: 6194213773
Operator Address: Neil Mohr
Operator Address2: 1700 Maxwell Rd.
Operator City,St,Zip: Chula Vista, CA 91912
Permit Date: 10/04/2018
Permit Status: Notification
Permitted Acreage: $4.00
Activity: Composting Operation (Research)
Regulation Status: Notification
Landuse Name: Residential
GIS Source: Map
Category: Composting
Unit Number: 01
Inspection Frequency: Quarterly
Accepted Waste: Food Wastes
Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: Not reported
SWIS Num: 37-AA-0984
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: 75
Actual Throughput with Units: Tons/day
Permitted Capacity with Units: 24000
Remaining Capacity: Not reported
Remaining Capacity with Units: Tons/year
Lat/Long: 32.60436 / -117.00536

LOS ANGELES CO. LF:
Name: OTAY LANDFILL
Address: 1700 MAXWELL RD
City,State,Zip: CHULA VISTA, CA 91911
Site ID: 2718
Alt. Address: N/A
Site Contact: Not reported
Site Contact Phone: (619) 421-5192
Site Email: Not reported
Site Website: http://www.sandiego.gov/environmental-services/recycling/locations/otaylandfill.
Site Type: Out-of-County Facility
Site SWIS Number: 37-AA-0010

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Beginning Operation Date:	N/A
Ending Operation Date:	N/A
Local Enforcement Agency:	County of San Diego Department of Environmental
Maximun Depth Fill(Ft):	Not reported
Permitted Capacity:	346
Present Use:	Solid Waste Landfill
Remaining Capacity(Million):	24,514,904
Status:	Active
Waste Accepted:	Construction & Demolition;Green Materials;Household Trash;Metals;Tires;
Hours of Operation:	Monday - Friday 7am-4pm; Saturday 7am-3pm
Disposal Area (Acre):	230

Detail As Of 01/2014:

Operator Name:	Unknown
Operator Address:	Not reported
Operator City/State/Zip:	Not reported
Operator Contact:	Not reported
Operator Telephone:	Not reported
Operator Email:	Not reported
Owner Name:	Unknown
Owner Address:	Not reported
Owner City/State/Zip:	Not reported
Owner Contact:	Not reported
Owner Telephone:	Not reported
Owner Email:	Not reported

LDS:

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91910
Global Id:	L10009614226
Latitude:	32.60493
Longitude:	-117.0048
Case Type:	Land Disposal Site
Status:	Open - Operating
Status Date:	07/20/2010
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Caseworker:	JRO
Local Agency:	Not reported
RB Case Number:	9 000000214
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Not reported
EDR Link ID:	L10009614226
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon, Trichloroethylene (TCE), Nitrate, Other inorganic / salt, Lead, MTBE / TBA / Other Fuel Oxygenates, Other Petroleum, Total Petroleum Hydrocarbons (TPH)
Site History:	Active Class III Landfill covered by waste discharge requrements issued by the San Diego Water Board as Order 90-009 (individual WDRs) and Order 93-86 (General WDRS). Both sets of WDRs are available from the San Diego Water Board web page and in the Geotracker database (see "Site Documents" tab).

Click here to access the California GeoTracker records for this facility:

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

ENF:

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	246288
Agency Name:	Republic Services (former Allied Waste), Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.60149
Place Longitude:	-117.01644
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000214
Reg Measure Id:	213828
Reg Measure Type:	Enrollee
Region:	9
Order #:	R9-1993-086
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	02/26/1979
Expiration/Review Date:	06/15/2010
Termination Date:	Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

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:	17 - Sibling site
Direction/Voice:	Passive
Enforcement Id(EID):	246812
Region:	9
Order / Resolution Number:	R9-2002-330
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	10/11/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000214
Description:	CAO R9-2002-330 was issued pursuant to Governor's Executive Order D-62-02 to implement a moratorium on the disposal of decommissioned waste (low-level radioactive wastes) at Class III and unclassified WMUs located in the San Diego Region.
Program:	LFOPER
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

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	246288
Agency Name:	Republic Services (former Allied Waste), Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.60149
Place Longitude:	-117.01644
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

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:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000214
Reg Measure Id:	213828
Reg Measure Type:	Enrollee
Region:	9
Order #:	R9-1993-086
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	02/26/1979
Expiration/Review Date:	06/15/2010
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:	17 - Sibling site
Direction/Voice:	Passive
Enforcement Id(EID):	242139
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	05/10/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Status:	Historical
Title:	Enforcement - 9 000000214
Description:	REQUEST FOR ANALYTICAL RESULTS FOR RADIOACTIVE WASTE CONSTITUENTS IN LEACHATE AND/OR GROUNDWATER. PER REQUEST OF EXEC DIRECTOR SWRCB ON 4/25/02.
Program:	LFOPER
Latest Milestone Completion Date:	1/31/2003
# 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

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	246288
Agency Name:	Republic Services (former Allied Waste), Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.60149
Place Longitude:	-117.01644
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000214
Reg Measure Id:	213828

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Reg Measure Type:	Enrollee
Region:	9
Order #:	R9-1993-086
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	02/26/1979
Expiration/Review Date:	06/15/2010
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:	17 - Sibling site
Direction/Voice:	Passive
Enforcement Id(EID):	238569
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	07/02/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	10/18/2001
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000214
Description:	WC 13267 letter requesting amended ROWD (update to JTD) concerning management of radioactive wastes and revised monitoring program for surface water and groundwater to include radioactive waste constituents.
Program:	LFOPER
Latest Milestone Completion Date:	10/18/2001
# 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

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	246288

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Agency Name:	Republic Services (former Allied Waste), Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.60149
Place Longitude:	-117.01644
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000214
Reg Measure Id:	213828
Reg Measure Type:	Enrollee
Region:	9
Order #:	R9-1993-086
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	02/26/1979
Expiration/Review Date:	06/15/2010
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

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Status Enrollee:	Y
Individual/General:	I
Fee Code:	17 - Sibling site
Direction/Voice:	Passive
Enforcement Id(EID):	238501
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice of Violation
Effective Date:	10/02/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	10/02/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000214
Description:	NOV for failure to submit information under WC13267. Requested info included plans for management of existing low level radioactive wastes and monitoring & reporting plan including surface and ground water discharges of radioactive waste constituents.
Program:	LFOPER
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

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	246288
Agency Name:	Republic Services (former Allied Waste), Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.60149
Place Longitude:	-117.01644
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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 ANNEX SANITARY LANDFILL (Continued) **S109287760**

# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000214
Reg Measure Id:	213828
Reg Measure Type:	Enrollee
Region:	9
Order #:	R9-1993-086
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	02/26/1979
Expiration/Review Date:	06/15/2010
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:	17 - Sibling site
Direction/Voice:	Passive
Enforcement Id(EID):	236596
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	07/02/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	10/18/2001
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000214
Description:	WC 13267 letter requesting amended ROWD (update to JTD) concerning management of radioactive wastes and revised monitoring program for surface water and groundwater to include radioactive waste constituents.

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Program:	LFOPER
Latest Milestone Completion Date:	10/18/2001
# 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

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	246288
Agency Name:	Republic Services (former Allied Waste), Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.60149
Place Longitude:	-117.01644
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000214
Reg Measure Id:	213828
Reg Measure Type:	Enrollee
Region:	9
Order #:	R9-1993-086
Npdes# CA#:	Not reported
Major-Minor:	Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	02/26/1979
Expiration/Review Date:	06/15/2010
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:	17 - Sibling site
Direction/Voice:	Passive
Enforcement Id(EID):	235172
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	11/14/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	12/28/2000
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000214
Description:	Letter requesting information to assess the threat to water quality from low level radioactive wastes discovered at the Otay Annex (Class III) Landfill. County of San Diego LEA and State DHS are also evaluating the potential human health effects.
Program:	LFOPER
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

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	246288
Agency Name:	Republic Services (former Allied Waste), Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.60149
Place Longitude:	-117.01644
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000214
Reg Measure Id:	131120
Reg Measure Type:	WDR
Region:	9
Order #:	R9-1990-0009
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	12/11/2014
Effective Date:	10/15/1997
Expiration/Review Date:	06/30/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	11/3/2003
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:	I
Fee Code:	50 - Land Disposal Site paying tipping fee
Direction/Voice:	Passive

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Enforcement Id(EID):	406715
Region:	9
Order / Resolution Number:	R9-2016-0067
Enforcement Action Type:	13267 Letter
Effective Date:	07/11/2016
Adoption/Issuance Date:	07/11/2016
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	13267 Letter R9-2016-0067 for Republic Services (former Allied Waste), Inc
Description:	Investigative Order and NOV requesting information about excess leachate production (approx. 900,000 gal/month) and slope stability evaluation for SE corner of landfill where leachate ponding seems to be occurring.
Program:	LFOPER
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

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	246288
Agency Name:	Republic Services (former Allied Waste), Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.60149
Place Longitude:	-117.01644
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000214
Reg Measure Id:	131120
Reg Measure Type:	WDR
Region:	9
Order #:	R9-1990-0009
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	12/11/2014
Effective Date:	10/15/1997
Expiration/Review Date:	06/30/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	11/3/2003
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:	I
Fee Code:	50 - Land Disposal Site paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	404725
Region:	9
Order / Resolution Number:	R9-2016-0067
Enforcement Action Type:	Notice of Violation
Effective Date:	07/11/2016
Adoption/Issuance Date:	07/11/2016
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	NOV R9-2016-0067 for Republic Services (former Allied Waste), Inc
Description:	Not reported
Program:	LFOPER
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	246288
Agency Name:	Republic Services (former Allied Waste), Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.60149
Place Longitude:	-117.01644
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000214
Reg Measure Id:	131120
Reg Measure Type:	WDR
Region:	9
Order #:	R9-1990-0009
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	12/11/2014

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Effective Date:	10/15/1997
Expiration/Review Date:	06/30/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	11/3/2003
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:	I
Fee Code:	50 - Land Disposal Site paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	399098
Region:	9
Order / Resolution Number:	Not reported
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	12/10/2014
Adoption/Issuance Date:	12/10/2014
Achieve Date:	Not reported
Termination Date:	12/10/2014
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	SEL 12/10/2014 for Republic Services (former Allied Waste), Inc
Description:	Not reported
Program:	LFOPER
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

CA Financial Assurance 2:

Name:	OTAY LANDFILL
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA
Region:	2
SWIS_NO:	37-AA-0010
Closure Approved:	Yes
Closure Inf Coverage Date:	06/01/2017
Closure Plan Coverage:	12544066
Closure Plan Date:	06/01/2016
PostClose Approved:	Yes
PostClose Adequacy Date:	06/01/2016
PostClose Inf Coverage:	17794713
PostClose Inf Coverage Date:	06/01/2017
CorActCoverage:	446503
CorActApproved:	Yes
CorAct Mec Adequacy Date:	Not reported
CorAct Inf Coverage:	430383
CorActPlanCoverage:	424860
CorAct Plan Date:	12/31/2016

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Lia Coverage:	10000000
Lia Approved:	Yes
Review:	06/09/2017
Closure Mechanism A:	SURETY BOND
Closure Mechanism B:	Not reported
Closure Coverage:	12707139
Closure Adequacy:	Not reported
Closure Inflation Estimate:	12707139
Post Closure Mechanism A:	SURETY BOND
Post Closure Established A:	01/19/2004
Post Closure Mechanism B:	Not reported
Post Closure Coverate:	17794713
Post Closure Adequacy:	Not reported
Corrective Action Extablished A:	01/19/2004
Corrective Actiont Coverage:	446503
Corrective Action Approved:	Yes
Corrective Action Inflation Estimate:	430383
Corrective Action Inflationdate:	06/01/2017
Corrective Action Plan Estimate:	424860
Liability Mechanism A:	INSURANCE
Liability Established A:	01/01/2004
Liability Mechanism B:	Not reported
CostAnniversary:	11/26/2008
ClosureEstablishedA:	01/19/2004
ClosureEstablishedB:	Not reported
ClosureDisbursement:	0
PostClosureEstablishedB:	Not reported
PostClosureDisbursement:	0
CorrectiveActionMechanismA:	SURETY BOND
CorrectiveActionMechanismB:	Not reported
CorrectiveActionExtablishedB:	Not reported
CorrectiveActiontDisbursement:	0
LiabilityEstabllishedB:	Not reported
LiabilityAdequacy:	Not reported
Responsible Party:	American Home Assurance Company
Provider:	Allied Waste Industries, Inc.
Contact:	Not reported

NPDES:

Name:	OTAY LANDFILL INC
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	9 37I013509
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	11/10/1997
Operator Name:	Otay Landfill Inc
Operator Address:	8514 Mast Blvd
Operator City:	Santee
Operator State:	California
Operator Zip:	92071

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	9
Regulatory Measure ID:	218578
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	9 37I013509
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/10/1997
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Otay Landfill Inc
Discharge Address:	8514 Mast Blvd
Discharge City:	Santee
Discharge State:	California
Discharge Zip:	92071
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	9
Regulatory Measure ID:	218578
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	9 37I013509
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:	05/09/2008
Processed Date:	11/10/1997
Status:	Active
Status Date:	11/10/1997
Place Size:	516
Place Size Unit:	Acres
Contact:	Antonia Gunner

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Contact Title:	Environmental Specialist
Contact Phone:	619-499-9579
Contact Phone Ext:	Not reported
Contact Email:	agunner@republicservices.com
Operator Name:	Otay Landfill Inc
Operator Address:	8514 Mast Blvd
Operator City:	Santee
Operator State:	California
Operator Zip:	92071
Operator Contact:	Antonia Gunner
Operator Contact Title:	Environmental Specialist
Operator Contact Phone:	619-499-9579
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	agunner@republicservices.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	619-449-9579
Emergency Phone Ext:	14
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Otay Valley River To Pacific
Certifier:	Neil Mohr
Certifier Title:	General Manager
Certification Date:	04-MAY-15
Primary Sic:	4953-Refuse Systems
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	OTAY LANDFILL INC
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Facility Status:	Active
NPDES Number:	CAS000001
Region:	9

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Agency Number:	0
Regulatory Measure ID:	218578
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	9 37I013509
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/10/1997
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	8514 Mast Blvd
Discharge Name:	Otay Landfill Inc
Discharge City:	Santee
Discharge State:	California
Discharge Zip:	92071
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	9
Regulatory Measure ID:	218578
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	9 37I013509
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/10/1997
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Otay Landfill Inc
Discharge Address:	8514 Mast Blvd
Discharge City:	Santee
Discharge State:	California
Discharge Zip:	92071
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	9
Regulatory Measure ID:	218578
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	9 37I013509
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

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/10/1997
Status:	Active
Status Date:	11/10/1997
Place Size:	516
Place Size Unit:	Acres
Contact:	Antonia Gunner
Contact Title:	Environmental Specialist
Contact Phone:	619-499-9579
Contact Phone Ext:	Not reported
Contact Email:	agunner@republicservices.com
Operator Name:	Otay Landfill Inc
Operator Address:	8514 Mast Blvd
Operator City:	Santee
Operator State:	California
Operator Zip:	92071
Operator Contact:	Antonia Gunner
Operator Contact Title:	Environmental Specialist
Operator Contact Phone:	619-499-9579
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	agunner@republicservices.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	619-449-9579
Emergency Phone Ext:	14
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Otay Valley River To Pacific
Certifier:	Neil Mohr
Certifier Title:	General Manager

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Certification Date:	04-MAY-15
Primary Sic:	4953-Refuse Systems
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91913
Agency:	Republic Services (former Allied Waste), Inc
Agency Address:	8514 Mast Boulevard, Santee, CA 92071
Place/Project Type:	Land fill
SIC/NAICS:	4953
Region:	9
Program:	LFOPER, LNDISP
Regulatory Measure Status:	Active
Regulatory Measure Type:	WDR
Order Number:	R9-1990-0009
WDID:	9 000000214
NPDES Number:	Not reported
Adoption Date:	10/15/1997
Effective Date:	10/15/1997
Termination Date:	Not reported
Expiration/Review Date:	06/30/2010
Design Flow:	0
Major/Minor:	Not reported
Complexity:	B
TTWQ:	1
Enforcement Actions within 5 years:	3
Violations within 5 years:	6
Latitude:	32.60149
Longitude:	-117.01644

CERS:

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL
City,State,Zip:	CHULA VISTA, CA 91913
Site ID:	347177
CERS ID:	246288
CERS Description:	Land Disposal

Violations:

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Violation Date:	03-02-1993
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	FAILURE TO SUBMIT REQUIRED OCTOBER-DECEMBER 1992 QUARTERLY MONITORING REPORT.
Violation Division:	Water Boards
Violation Program:	RCRA
Violation Source:	CIWQS

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Violation Date:	02-04-2016

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Citation: California Water Code
Violation Description: Not reported
Violation Notes: Section B. 6 of Order 90-009. Prevent washout and erosion of waste materials. Erosion observed on the south side slopes.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 02-12-2019
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failure to adequately maintain the site. Appropriate BMPs for the control of erosion, storm water runoff and run-on were not observed during the inspection. Evidence and actual ponding was observed in multiple locations. Portions of the site doesn’’’t support proper drainage.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 03-02-1993
Citation: California Water Code
Violation Description: Not reported
Violation Notes: FAILURE TO SUBMIT REQUIRED JANUARY-DECEMBER 1992 ANNUAL MONITORING REPORT.
Violation Division: Water Boards
Violation Program: RCRA
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 07-10-2010
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Otay Landfill accepted waste neoprene rubber powder, which was determined to be a California hazardous waste based on DTSC sampling of the material. This is in violation of Prohibition A.3 of Order No. 90-009 which prohibits the acceptance of hazardous waste. Approximately 31 shipments of this material was disposed at Otay Landfill based on non-h
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 12-30-1993
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Release of volatile constituents from the landfill to groundwater.
Violation Division: Water Boards
Violation Program: RCRA
Violation Source: CIWQS

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 10-03-2001
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failure to provide waste management plan and monitoring plan for low-level radioactive waste constituents pursuant to WC13267 letter issued in July 2001.
Violation Division: Water Boards
Violation Program: RCRA
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 05-18-1993
Citation: California Water Code
Violation Description: Not reported
Violation Notes: FAILURE TO SUBMIT REQUIRED JANUARY-MARCH 1993 QUARTERLY MONITORING REPORT.
Violation Division: Water Boards
Violation Program: RCRA
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 02-01-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Violation of Annual Leachate Monitoring requirements for WDRs under Order 93-86. Report does not contain analytical results for the required suite of constituents from Appendix II or 40 CFR, Part 258.
Violation Division: Water Boards
Violation Program: RCRA
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 02-12-2019
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Discharge of discolored runoff from composting operations was ponded outside of detention basin. Green waste for erosion control was contaminated with trash, making it inappropriate for use on outer slope.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 05-05-1995
Citation: California Water Code
Violation Description: Not reported
Violation Notes: 1994 annual report did not contain a graphical summary of ground water data
Violation Division: Water Boards
Violation Program: RCRA

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 02-04-2016
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Section C.5 of Order 90-009. Properly operate and maintain all facilities and systems of treatment and control.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 11-13-2014
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Groundwater monitoring was observed uncapped with no lock present during compliace inspection on November 13, 2014.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 01-30-1992
Citation: California Water Code
Violation Description: Not reported
Violation Notes: FAILURE TO SUBMIT REQUIRED JANUARY-DECEMBER 1991 ANNUAL MONITORING REPORT.
Violation Division: Water Boards
Violation Program: RCRA
Violation Source: CIWQS

Site ID: 347177
Site Name: Otay Annex Sanitary Landfill
Violation Date: 02-04-2016
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Section B. 15 of Order 90-009. Erosion control BMPs are to be implemented at the start of the rainy season annually.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-04-1995
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Eval Date:	01-22-1993
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-26-2000
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-04-2016
Violations Found:	Yes
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-08-2017
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-09-2005
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-12-2019
Violations Found:	Yes
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-27-2003
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-05-2001
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-08-2007
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Sampling Inspection
Eval Date:	03-11-1999
Violations Found:	No
Eval Type:	RWQCB Type A compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-12-2013
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2014
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-22-2002
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-11-2001
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-15-2010
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Case Development Inspection
Eval Date: 06-20-2007
Violations Found: No
Eval Type: Field Oversight
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-21-1996
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-24-1992
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-14-1995
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Eval Date:	07-16-2001
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-09-1999
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-12-2000
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-18-1995
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-01-2002
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-11-1994
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-15-1992
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-16-2001
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-12-2002
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-13-2014
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-15-2017
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-04-1992
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-11-2001
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Eval Source: CIWQS

Enforcement Action:

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Site Address:	1700 MAXWELL
Site City:	CHULA VISTA
Site Zip:	91913
Enf Action Date:	05-10-2002
Enf Action Type:	Enforcement Letter (Formal)
Enf Action Description:	Enforcement Letter Citing Violations and with Required Actions (Formal)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	LFOPER
Enf Action Source:	CIWQS

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Site Address:	1700 MAXWELL
Site City:	CHULA VISTA
Site Zip:	91913
Enf Action Date:	07-02-2001
Enf Action Type:	Enforcement Letter (Formal)
Enf Action Description:	Enforcement Letter Citing Violations and with Required Actions (Formal)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	LFOPER
Enf Action Source:	CIWQS

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Site Address:	1700 MAXWELL
Site City:	CHULA VISTA
Site Zip:	91913
Enf Action Date:	07-11-2016
Enf Action Type:	Enforcement Letter (Formal)
Enf Action Description:	Enforcement Letter Citing Violations and with Required Actions (Formal)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	LFOPER
Enf Action Source:	CIWQS

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Site Address:	1700 MAXWELL
Site City:	CHULA VISTA
Site Zip:	91913
Enf Action Date:	07-11-2016
Enf Action Type:	Notice of Violation (Water)
Enf Action Description:	Notice of Violation Letter (Informal)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	LFOPER
Enf Action Source:	CIWQS

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Site Address:	1700 MAXWELL
Site City:	CHULA VISTA
Site Zip:	91913
Enf Action Date:	10-02-2001
Enf Action Type:	Notice of Violation (Water)
Enf Action Description:	Notice of Violation Letter (Informal)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	LFOPER
Enf Action Source:	CIWQS

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Site Address:	1700 MAXWELL
Site City:	CHULA VISTA
Site Zip:	91913
Enf Action Date:	10-11-2002
Enf Action Type:	Clean-up and Abatement Order
Enf Action Description:	Clean-up and Abatement Order
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	LFOPER
Enf Action Source:	CIWQS

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Site Address:	1700 MAXWELL
Site City:	CHULA VISTA
Site Zip:	91913
Enf Action Date:	11-14-2000
Enf Action Type:	Enforcement Letter (Formal)
Enf Action Description:	Enforcement Letter Citing Violations and with Required Actions (Formal)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	LFOPER
Enf Action Source:	CIWQS

Site ID:	347177
Site Name:	Otay Annex Sanitary Landfill
Site Address:	1700 MAXWELL
Site City:	CHULA VISTA
Site Zip:	91913
Enf Action Date:	12-10-2014
Enf Action Type:	Staff Enforcement Letter (Informal)
Enf Action Description:	Staff Enforcement Letter (Informal)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	LFOPER
Enf Action Source:	CIWQS

Affiliation:

Affiliation Type Desc:	Interested Party
Entity Name:	San Diego Cnty Local Enforcement Agency (LEA)
Entity Title:	Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: OTAY CDI MVPF
Address: 1700 MAXWELL ROAD
City,State,Zip: CHULA VISTA, CA
Site ID: 510733
CERS ID: 37-AA-0973
CERS Description: Solid Waste and Recycle Sites

Affiliation:
Affiliation Type Desc: Legal Operator
Entity Name: Otay Landfill Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Santee
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92071
Affiliation Phone: 6194494053

Affiliation Type Desc: Legal Owner
Entity Name: Otay Landfill Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Santee
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92071
Affiliation Phone: 6194494053

Name: OTAY LANDFILL RESEARCH COMPOSTING OP.
Address: 1700 MAXWELL RD.
City,State,Zip: CHULA VISTA, CA
Site ID: 510735
CERS ID: 37-AA-0984
CERS Description: Solid Waste and Recycle Sites

Affiliation:
Affiliation Type Desc: Legal Operator
Entity Name: Otay Landfill, Inc.
Entity Title: Not reported
Affiliation Address: Neil Mohr1700 Maxwell Rd.
Affiliation City: Chula Vista
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91912
Affiliation Phone: 6194213773

Affiliation Type Desc: Legal Owner
Entity Name: Otay Landfill, Inc.
Entity Title: Not reported

OTAY ANNEX SANITARY LANDFILL (Continued) **S109287760**

Affiliation Address:	Neil Mohr1700 Maxwell Rd.
Affiliation City:	Chula Vista
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91912
Affiliation Phone:	6194213773

Name:	PLANTS CHOICE COMP MATERIAL HANDLING OP.
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA
Site ID:	511022
CERS ID:	37-AA-0975
CERS Description:	Solid Waste and Recycle Sites

Affiliation:

Affiliation Type Desc:	Legal Operator
Entity Name:	Plants Choice, Inc.
Entity Title:	Not reported
Affiliation Address:	Beng Hoe OoiPO Box 436050
Affiliation City:	San Ysidro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92154
Affiliation Phone:	6195859909

Affiliation Type Desc:	Legal Owner
Entity Name:	Otay Landfill Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Santee
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92071
Affiliation Phone:	6194494053

Name:	OTAY ANNEX SANITARY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91910
Site ID:	140439
CERS ID:	L10009614226
CERS Description:	Land Disposal Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	AMY L. GROVE - SAN DIEGO RWQCB (REGION 9)
Entity Title:	Not reported
Affiliation Address:	2375 NORTHSIDE DRIVE, SUITE 100
Affiliation City:	SAN DIEGO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A5 SSE 1/4-1/2 0.360 mi. 1901 ft.

Relative: Higher

Actual: 349 ft.

BKK CORPORATION
1700 MAXWELL RD
CHULA VISTA, CA 92011

Site 2 of 6 in cluster A

CA SWF/LF
CA San Diego Co. HMMD
CA CERS HAZ WASTE
CA HIST UST
CA EMI
CA HWP
CA CERS

U001571080
N/A

SAN DIEGO CO. LF:

Name:	OTAY CDI
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA
Facility Status:	ACTIVE SITES
Operational Status:	ACTIVE
Region:	SAN DIEGO
SWIS Number:	37-AA-0973
Owner Name:	OTAY LANDFILL INC
Operator:	OTAY LANDFILL INC
Facility Type:	MEDIUM VOLUME TRANSFER/ MEDIUM VOLUME CDI PROCESSING
Facility Type2:	CDI PROCESSING
PERMTIER:	REGISTRATION
Inspection Frequency:	MONTHLY

Name:	PLANTS CHOICE CHMO
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA
Facility Status:	ACTIVE SITES
Operational Status:	ACTIVE
Region:	SAN DIEGO
SWIS Number:	37-AA-0975
Owner Name:	OTAY LANDFILL, INC.
Operator:	PLANTS CHOICE INC
Facility Type:	ORGANIC MATERIALS HANDLING FACILITIES
Facility Type2:	GREEN MATERIAL COMPOSTING OPERATION (<12,500 yd3)
PERMTIER:	EA NOTIFICATION
Inspection Frequency:	QUARTERLY

HMMD SAN DIEGO:

Name:	ECOLOGY AUTO PARTS, INC.
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Permit Number:	Not reported
Business Type:	Not reported
EPA Id Number:	CAL000341724
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	562-921-9974
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	06/28/2018
Facility Owner:	Not reported
Facility Mailing Address:	14150 VINE PLACE, CERRITOS, CA 90703
Facility Mailing City:	Not reported
Facility Mailing State:	Not reported
Facility Mailing Zip:	Not reported
UST Owner:	N
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported

BKK CORPORATION (Continued) **U001571080**

Generate Haz Waste: Y
Treat Haz Waste: N
Generate Medical Waste: Not reported

Inspection Violation:

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Facility Id Number: 37-000-210800
Program Element: Hazardous Materials Release Response Plans
Inspection Type: Routine
Inspection Number: 5923212
Return To Compliance Date: 2018-06-05T00:00:00.000
Nov: No
Violation Classification: Minor
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2019-04-11T01:01:25.000
Inspection Date: 2018-06-04T15:29:00.000
Violation Code: 1010008 HMBP not certified annually as complete and accurate in CERS. HSC 25508(a)(1)(A), 25508.2, 19 CCR 2654(b)

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Facility Id Number: 37-000-210800
Program Element: Hazardous Waste Generator
Inspection Type: Routine
Inspection Number: 4519323
Return To Compliance Date: 2015-11-02T00:00:00.000
Nov: No
Violation Classification: Minor
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2019-04-11T01:01:25.000
Inspection Date: 2014-02-27T15:06:00.000
Violation Code: HMD0138 Manifest signed by the Treatment, Storage, Disposal Facility (TSDF) not available for inspection. 66262.40(a).

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Facility Id Number: 37-000-210800
Program Element: Hazardous Materials Release Response Plans
Inspection Type: Routine
Inspection Number: 5923212
Return To Compliance Date: 2018-06-25T00:00:00.000
Nov: No
Violation Classification: Minor
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2019-04-11T01:01:25.000
Inspection Date: 2018-06-04T15:29:00.000
Violation Code: 1020002 Initial &/or annual employee training not conducted in safety procedures for a hazardous material release or threatened release &/or employee training records not available or not maintained for 3 years. HSC 25505(a)(4); 19 CCR 2659(b)

BKK CORPORATION (Continued) **U001571080**

Waste and Materials:

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HCHEM-0187224
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2019-04-11T01:01:27.000
Chemical Name:	Not reported
Common Name:	Diesel Exhaust Fluid (DEF)
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HCHEM-0187225
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2019-04-11T01:01:27.000
Chemical Name:	Propane
Common Name:	Liquefied Petroleum Gas (lpg)
Case Number:	74-98-6

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0162086
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2019-04-11T01:01:28.000
Chemical Name:	WASTE 611 CONTAMINATED SOIL
Common Name:	OILY SOIL/SOLIDS
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0107265
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2017-09-29T02:34:58.000
Chemical Name:	OXYGEN GAS
Common Name:	OXYGEN GAS
Case Number:	7782-44-7

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0107266
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2017-09-29T02:34:58.000
Chemical Name:	Ethylene Glycol
Common Name:	ANTIFREEZE
Case Number:	107-21-1

Record ID:	DEH2009-HUPFP-210800

BKK CORPORATION (Continued) **U001571080**

Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0107267
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2017-09-29T02:34:58.000
Chemical Name:	Gear Oil
Common Name:	Gear Oil
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0107268
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2017-09-29T02:34:58.000
Chemical Name:	HYDRAULIC OIL
Common Name:	HYDRAULIC OIL
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0107269
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2017-09-29T02:34:58.000
Chemical Name:	Not reported
Common Name:	Diesel Exhaust Fluid (DEF)
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0107270
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2017-09-29T02:34:58.000
Chemical Name:	Propane
Common Name:	Liquefied Petroleum Gas (lpg)
Case Number:	74-98-6

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0107271
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2017-09-29T02:34:58.000
Chemical Name:	Not reported
Common Name:	Motor Oil
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y

BKK CORPORATION (Continued) **U001571080**

Child Record Id: DEH2016-HWAST-0088520
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-09-29T02:34:58.000
Chemical Name: WASTE 611 CONTAMINATED SOIL
Common Name: OILY SOIL/SOLIDS
Case Number: Not reported

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0088521
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-09-29T02:34:58.000
Chemical Name: WASTE 221 WASTE OIL & MIXED OIL
Common Name: USED OIL
Case Number: Not reported

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0088522
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-09-29T02:34:58.000
Chemical Name: Ethylene Glycol
Common Name: Ethylene Glycol (Waste)
Case Number: Not reported

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0088523
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-09-29T02:34:58.000
Chemical Name: Not reported
Common Name: Oily Water (Parts Washer)
Case Number: Not reported

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0187226
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2019-04-11T01:01:27.000
Chemical Name: Lubricating oils (petroleum), C>25, hydrotreated bright stock-based
Common Name: Lubricating Oils
Case Number: 72623-83-7

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0187222
Trade Secret: N

BKK CORPORATION (Continued) **U001571080**

Hazardous Material Type:	Pure
Last Updated:	2019-04-11T01:01:27.000
Chemical Name:	OXYGEN GAS
Common Name:	OXYGEN GAS
Case Number:	7782-44-7

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HCHEM-0187223
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2019-04-11T01:01:27.000
Chemical Name:	Ethylene Glycol
Common Name:	ANTIFREEZE
Case Number:	107-21-1

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0162087
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2019-04-11T01:01:28.000
Chemical Name:	WASTE 221 WASTE OIL & MIXED OIL
Common Name:	USED OIL
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0162088
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2019-04-11T01:01:28.000
Chemical Name:	Ethylene Glycol
Common Name:	Ethylene Glycol (Waste)
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0162089
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2019-04-11T01:01:28.000
Chemical Name:	Not reported
Common Name:	Oily Water (Parts Washer)
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HCHEM-0178431
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2018-04-12T02:45:27.000

BKK CORPORATION (Continued) **U001571080**

Chemical Name: OXYGEN GAS
Common Name: OXYGEN GAS
Case Number: 7782-44-7

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0178432
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2018-04-12T02:45:27.000
Chemical Name: Ethylene Glycol
Common Name: ANTIFREEZE
Case Number: 107-21-1

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0178433
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2018-04-12T02:45:27.000
Chemical Name: Gear Oil
Common Name: Gear Oil
Case Number: Not reported

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0178434
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2018-04-12T02:45:27.000
Chemical Name: HYDRAULIC OIL
Common Name: HYDRAULIC OIL
Case Number: Not reported

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0178435
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2018-04-12T02:45:27.000
Chemical Name: Not reported
Common Name: Diesel Exhaust Fluid (DEF)
Case Number: Not reported

Record ID: DEH2009-HUPFP-210800
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0178436
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2018-04-12T02:45:27.000
Chemical Name: Propane
Common Name: Liquefied Petroleum Gas (lpg)

BKK CORPORATION (Continued) **U001571080**

Case Number:	74-98-6

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HCHEM-0178437
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2018-04-12T02:45:27.000
Chemical Name:	Not reported
Common Name:	Motor Oil
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0152940
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-04-12T02:45:28.000
Chemical Name:	WASTE 611 CONTAMINATED SOIL
Common Name:	OILY SOIL/SOLIDS
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0152941
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-04-12T02:45:28.000
Chemical Name:	WASTE 221 WASTE OIL & MIXED OIL
Common Name:	USED OIL
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0152942
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-04-12T02:45:28.000
Chemical Name:	Ethylene Glycol
Common Name:	Ethylene Glycol (Waste)
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-210800
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0152943
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-04-12T02:45:28.000
Chemical Name:	Not reported
Common Name:	Oily Water (Parts Washer)
Case Number:	Not reported

BKK CORPORATION (Continued) **U001571080**

Name:	ECOLOGY AUTO PARTS
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Permit Number:	210800
Business Type:	6HK26
EPA Id Number:	CAL000341724
APN:	644-230-19-00
Last HMMD Inspection:	01/26/2011
Facility Telephone:	619-429-3497
Permit Status:	OPEN
Permit Expiration:	09/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	ECOLOGY AUTO PARTS, INC
Facility Mailing Address:	14150 VINE PLACE
Facility Mailing City:	CERRITOS
Facility Mailing State:	CA
Facility Mailing Zip:	90703
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

Inventory Active Permits (not SQG Medical):

Permit Number:	210800
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:	Not reported

Permit Number:	210800
Update Date:	11/02/2012
Case Number:	107-21-1
Name:	ETHYLENE GLYCOL
Other Information:	ANTIFREEZE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	210800
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	OILS, LUBRICATING
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported

Permit Number:	210800
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported

BKK CORPORATION (Continued) **U001571080**

Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported
Permit Number:	210800
Update Date:	11/02/2012
Case Number:	68476-85-7
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported
Permit Number:	210800
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:	210800
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:	210800
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information:	1X55GAL USED/1X55 GAL NEW/ XOGUARD FLUID
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Permit Number:	210800
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 888 USED OIL FILTERS
Other Information:	DRAINED - TO ECOLOGY
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	210800
Update Date:	11/02/2012
Inspection Date:	05/28/2009
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

BKK CORPORATION (Continued) **U001571080**

Activity:	ACTIVE
Permit Number:	210800
Update Date:	11/02/2012
Inspection Date:	05/28/2009
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

Name:	ECOLOGY AUTO PARTS
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Permit Number:	210800
Business Type:	6HK26
EPA Id Number:	CAL000341724
APN:	644-230-19-00
Last HMMD Inspection:	01/26/2011
Facility Telephone:	619-429-3497
Permit Status:	OPEN
Permit Expiration:	09/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	ECOLOGY AUTO PARTS, INC
Facility Mailing Address:	14150 VINE PLACE
Facility Mailing City:	CERRITOS
Facility Mailing State:	CA
Facility Mailing Zip:	90703
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

Inventory Active Permits (not SQG Medical):

Permit Number:	210800
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:	Not reported
Permit Number:	210800
Update Date:	11/02/2012
Case Number:	107-21-1
Name:	ETHYLENE GLYCOL
Other Information:	ANTIFREEZE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Permit Number:	210800
Update Date:	11/02/2012

BKK CORPORATION (Continued) **U001571080**

Case Number: 8002-05-9
Name: OILS, LUBRICATING
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Permit Number: 210800
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: 210800
Update Date: 11/02/2012
Case Number: 68476-85-7
Name: PROPANE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Permit Number: 210800
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: 210800
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: 210800
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: 1X55GAL USED/1X55 GAL NEW/ XOGUARD FLUID
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 210800
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: DRAINED - TO ECOLOGY

BKK CORPORATION (Continued) **U001571080**

Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 210800
Update Date: 11/02/2012
Inspection Date: 05/28/2009
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: 210800
Update Date: 11/02/2012
Inspection Date: 05/28/2009
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

CERS HAZ WASTE:
Name: ECOLOGY AUTO PARTS, INC.
Address: 1700 MAXWELL RD
City,State,Zip: CHULA VISTA, CA 91911
Site ID: 27378
CERS ID: 10359358
CERS Description: Hazardous Waste Generator

HIST UST:
Name: BKK CORPORATION
Address: 1700 MAXWELL RD
City,State,Zip: CHULA VISTA, CA 92011
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000016754
Facility Type: Other
Other Type: TREATMENT FACILITY
Contact Name: HERB SMITH
Telephone: 6194211175
Owner Name: BKK CORPORATION
Owner Address: 2550 237TH STREET
Owner City,St,Zip: TORRANCE, CA 90505
Total Tanks: 0003

Tank Num: 001
Container Num: SF1
Year Installed: 1982
Tank Capacity: 00250000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6

BKK CORPORATION (Continued) **U001571080**

Leak Detection:	Visual, Groundwater Monitoring Well
Tank Num:	002
Container Num:	SF2
Year Installed:	1982
Tank Capacity:	00250000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	Visual, Groundwater Monitoring Well
Tank Num:	003
Container Num:	SOG
Year Installed:	1982
Tank Capacity:	00013500
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	Visual

EMI:

Name:	ALLIED/OTAY LANDFILL
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 92011
Year:	1996
County Code:	37
Air Basin:	SD
Facility ID:	7263
Air District Name:	SD
SIC Code:	4953
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5786
Reactive Organic Gases Tons/Yr:	70
Carbon Monoxide Emissions Tons/Yr:	7
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	84
Part. Matter 10 Micrometers and Smllr Tons/Yr:	37
Name:	ALLIED WASTE - OTAY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 92011
Year:	1997
County Code:	37
Air Basin:	SD
Facility ID:	7263
Air District Name:	SD
SIC Code:	4953
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1623
Reactive Organic Gases Tons/Yr:	13
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2

BKK CORPORATION (Continued) **U001571080**

SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	58
Part. Matter 10 Micrometers and Smllr Tons/Yr:	17

Name:	ALLIED WASTE - OTAY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 92011
Year:	1998
County Code:	37
Air Basin:	SD
Facility ID:	7263
Air District Name:	SD
SIC Code:	4953
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1485
Reactive Organic Gases Tons/Yr:	12
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	84
Part. Matter 10 Micrometers and Smllr Tons/Yr:	22

Name:	ALLIED WASTE - OTAY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 92011
Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	7263
Air District Name:	SD
SIC Code:	4953
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1485
Reactive Organic Gases Tons/Yr:	12
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	84
Part. Matter 10 Micrometers and Smllr Tons/Yr:	22

Name:	OTAY LANDFILL INC.
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 92011
Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	7263
Air District Name:	SD
SIC Code:	4953
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3695

BKK CORPORATION (Continued) **U001571080**

Reactive Organic Gases Tons/Yr:	30
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	239
Part. Matter 10 Micrometers and Smllr Tons/Yr:	66

Name:	OTAY LANDFILL INC.
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 92011
Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	7263
Air District Name:	SD
SIC Code:	4953
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3695
Reactive Organic Gases Tons/Yr:	30
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	239
Part. Matter 10 Micrometers and Smllr Tons/Yr:	66

Name:	OTAY LANDFILL INC.
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 92011
Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	7263
Air District Name:	SD
SIC Code:	4953
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2045
Reactive Organic Gases Tons/Yr:	17
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	228
Part. Matter 10 Micrometers and Smllr Tons/Yr:	87

Name:	OTAY LANDFILL INC.
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 92011
Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	7263
Air District Name:	SD
SIC Code:	4953
Air District Name:	SAN DIEGO COUNTY APCD

BKK CORPORATION (Continued) **U001571080**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2045
Reactive Organic Gases Tons/Yr:	17
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	228
Part. Matter 10 Micrometers and Smllr Tons/Yr:	87

Name:	OTAY LANDFILL INC.
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 92011
Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	7263
Air District Name:	SD
SIC Code:	4953
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2044.525658
Reactive Organic Gases Tons/Yr:	16.9134257
Carbon Monoxide Emissions Tons/Yr:	1.5757
NOX - Oxides of Nitrogen Tons/Yr:	8.432
SOX - Oxides of Sulphur Tons/Yr:	1.547272
Particulate Matter Tons/Yr:	228.336762
Part. Matter 10 Micrometers and Smllr Tons/Yr:	86.8528861

HWP:

Name:	APPROPRIATE TECHNOLOGIES II INC
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 919116156
EPA Id:	CAT080010101
Cleanup Status:	CLOSED
Latitude:	32.60064
Longitude:	-117.0152
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Assembly District:	79
Senate District:	40
Public Information Officer:	Not reported
Public Information Officer:	Not reported

Activities:

EPA Id:	CAT080010101
Facility Type:	Historical - Non-Operating
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART A RECEIVED
Actual Date:	05/17/1990

EPA Id:	CAT080010101
Facility Type:	Historical - Non-Operating

BKK CORPORATION (Continued) **U001571080**

Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 08/06/1982

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Renewal - Historical - FINAL PERMIT RENEWAL
Actual Date: 03/31/1992

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 01/11/1983

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 01/11/1988

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Renewal - Historical - APPLICATION PART B RECEIVED
Actual Date: 05/31/1989

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Renewal - Historical - FINAL PERMIT RENEWAL (EFFECTIVE)
Actual Date: 06/30/1993

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - TECHNICAL COMPLETE LETTER
Actual Date: 08/19/1982

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Renewal - Historical - PUBLIC COMMENT (BEGIN)
Actual Date: 06/29/1991

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 01/11/1983

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Renewal - Historical - TECHNICAL COMPLETE LETTER
Actual Date: 06/25/1991

BKK CORPORATION (Continued) **U001571080**

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 04/26/1982

Closure:
EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 11/25/1998

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 06/17/1998

Alias:
EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000832243

EPA Id: CAT080010101
Facility Type: Historical - Non-Operating
Alias Type: Envirostor ID Number
Alias: 37730291

CERS:
Name: ECOLOGY AUTO PARTS, INC.
Address: 1700 MAXWELL RD
City,State,Zip: CHULA VISTA, CA 91911
Site ID: 27378
CERS ID: 10359358
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 27378
Site Name: ECOLOGY AUTO PARTS, INC.
Violation Date: 06-04-2018
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 06/25/2018.
Violation Division: San Diego County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 27378
Site Name: ECOLOGY AUTO PARTS, INC.

BKK CORPORATION (Continued) **U001571080**

Violation Date: 06-04-2018
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 06/05/2018.
Violation Division: San Diego County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-04-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Luna Raisa Inspection ID:5923212
Eval Division: San Diego County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-04-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspector: Luna Raisa Inspection ID:5923212
Eval Division: San Diego County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Thai Darren Inspection ID:5398249
Eval Division: San Diego County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Thai Darren Inspection ID:5398249
Eval Division: San Diego County Department of Env Health
Eval Program: HW
Eval Source: CERS

Coordinates:
Site ID: 27378
Facility Name: ECOLOGY AUTO PARTS, INC.
Env Int Type Code: HWG
Program ID: 10359358
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 32.604930

BKK CORPORATION (Continued) **U001571080**

Longitude: -117.004810

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Regina Coronado
Entity Title:	Not reported
Affiliation Address:	14150 VINE PL
Affiliation City:	CERRITOS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90703
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	ECOLOGY AUTO PARTS, INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 921-9974

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14150 VINE PLACE
Affiliation City:	CERRITOS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90703
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	San Diego County Env Health
Entity Title:	Not reported
Affiliation Address:	PO Box 129261
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92112-9261
Affiliation Phone:	(858) 505-6880

Affiliation Type Desc:	Parent Corporation
Entity Name:	ECOLOGY AUTO PARTS, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	ECOLOGY AUTO PARTS, INC.
Entity Title:	Not reported
Affiliation Address:	14150 VINE PLACE

BKK CORPORATION (Continued) **U001571080**

Affiliation City:	CERRITOS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90703
Affiliation Phone:	(562) 921-9974

A6
SSE
1/4-1/2
0.360 mi.
1901 ft.

Relative:
Higher

Actual:
349 ft.

APPROPRIATE TECHNOLOGIES II INC.
1700 MAXWELL RD
CHULA VISTA, CA 91911

Site 3 of 6 in cluster A

SEMS-ARCHIVE
CORRACTS
RCRA-TSDF
RCRA-SQG
2020 COR ACTION
NY MANIFEST

1000367959
CAT080010101

SEMS Archive:

Site ID:	0902662
EPA ID:	CAT080010101
Cong District:	42
FIPS Code:	06073
FF:	N
NPL:	Not on the NPL
Non NPL Status:	Deferred to RCRA (Subtitle C)

SEMS Archive Detail:

Region:	09
Site ID:	0902662
EPA ID:	CAT080010101
Site Name:	APPROPRIATE TECHNOLOGIES II
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	Not reported
Finish Date:	1989-09-15 04:00:00
Qual:	D
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902662
EPA ID:	CAT080010101
Site Name:	APPROPRIATE TECHNOLOGIES II
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-03-01 05:00:00
Finish Date:	1987-11-01 05:00:00
Qual:	D
Current Action Lead:	St Perf

Region:	09
Site ID:	0902662
EPA ID:	CAT080010101
Site Name:	APPROPRIATE TECHNOLOGIES II

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1996-01-23 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0902662
EPA ID:	CAT080010101
Site Name:	APPROPRIATE TECHNOLOGIES II
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-08-01 04:00:00
Finish Date:	1980-08-01 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902662
EPA ID:	CAT080010101
Site Name:	APPROPRIATE TECHNOLOGIES II
NPL:	N
FF:	N
OU:	00
Action Code:	AA
Action Name:	RCRA F A
SEQ:	1
Start Date:	Not reported
Finish Date:	1989-09-15 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

CORRACTS:

EPA ID:	CAT080010101
EPA Region:	09
Area Name:	ENTIRE FACILITY
Actual Date:	2011-09-20 00:00:00.0
Action:	CA550RC
NAICS Code(s):	48411 48411 General Freight Trucking, Local General Freight Trucking, Local
Original schedule date:	2011-11-24 00:00:00.0
Schedule end date:	Not reported

EPA ID:	CAT080010101
EPA Region:	09
Area Name:	ENTIRE FACILITY

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Actual Date: 2011-09-20 00:00:00.0
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 48411 48411
General Freight Trucking, Local
General Freight Trucking, Local
Original schedule date: 2011-11-24 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080010101
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2011-09-20 00:00:00.0
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 48411 48411
General Freight Trucking, Local
General Freight Trucking, Local
Original schedule date: 2011-11-24 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080010101
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2010-12-08 00:00:00.0
Action: CA550RC
NAICS Code(s): 48411 48411
General Freight Trucking, Local
General Freight Trucking, Local
Original schedule date: 2010-12-08 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080010101
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2010-12-08 00:00:00.0
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 48411 48411
General Freight Trucking, Local
General Freight Trucking, Local
Original schedule date: 2010-12-08 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080010101
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2010-08-12 00:00:00.0
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 48411 48411
General Freight Trucking, Local
General Freight Trucking, Local
Original schedule date: 2010-08-12 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080010101

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

EPA Region: 09
Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Actual Date: 1995-02-22 00:00:00.0
Action: CA200 - RFI Approved
NAICS Code(s): 48411 48411
General Freight Trucking, Local
General Freight Trucking, Local
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAT080010101
EPA Region: 09
Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Actual Date: 1994-06-14 00:00:00.0
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 48411 48411
General Freight Trucking, Local
General Freight Trucking, Local
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAT080010101
EPA Region: 09
Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Actual Date: 1992-09-28 00:00:00.0
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): 48411 48411
General Freight Trucking, Local
General Freight Trucking, Local
Original schedule date: 1992-09-28 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080010101
EPA Region: 09
Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Actual Date: 1991-06-29 00:00:00.0
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 48411 48411
General Freight Trucking, Local
General Freight Trucking, Local
Original schedule date: 1991-06-29 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080010101
EPA Region: 09
Area Name: WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Actual Date: 1991-06-29 00:00:00.0
Action: CA050 - RFA Completed
NAICS Code(s): 48411 48411
General Freight Trucking, Local

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

	General Freight Trucking, Local
Original schedule date:	1991-06-29 00:00:00.0
Schedule end date:	Not reported

EPA ID:	CAT080010101
EPA Region:	09
Area Name:	WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Actual Date:	1989-05-27 00:00:00.0
Action:	CA050 - RFA Completed
NAICS Code(s):	48411 48411
	General Freight Trucking, Local
	General Freight Trucking, Local
Original schedule date:	1989-05-27 00:00:00.0
Schedule end date:	Not reported

EPA ID:	CAT080010101
EPA Region:	09
Area Name:	WASHOUT PIT & OLD UNLINED EFFLUENT PIPES
Actual Date:	1989-05-27 00:00:00.0
Action:	CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s):	48411 48411
	General Freight Trucking, Local
	General Freight Trucking, Local
Original schedule date:	1989-05-27 00:00:00.0
Schedule end date:	Not reported

RCRA-TSDF:

Date form received by agency:	03/04/1999
Facility name:	APPROPRIATE TECHNOLOGIES II INC.
Site name:	APPROPRIATE TECHNOLOGIES II, INC.
Facility address:	1700 MAXWELL RD
	CHULA VISTA, CA 91911
EPA ID:	CAT080010101
Mailing address:	2210 SOUTH AZUSA AVE
	WEST COVINA, CA 91792
Contact:	JOHN FAULKNER
Contact address:	Not reported
	Not reported
Contact country:	US
Contact telephone:	626-965-0911
Telephone ext.:	319
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste

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

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: APPROPRIATE TECHNOLOGIES II INC.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: APPROPRIATE TECHNOLOGIES II INC.
Classification: Small Quantity Generator

Date form received by agency: 02/27/1996
Site name: APPROPRIATE TECHNOLOGIES II INC
Classification: Large Quantity Generator

Date form received by agency: 03/30/1994
Site name: APPROPRIATE TECHNOLOGIES 11, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/16/1992
Site name: APPROPRIATE TECHNOLOGIES II
Classification: Large Quantity Generator

Date form received by agency: 04/16/1990
Site name: APPROPRIATE TECHNOLOGIES II
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: APPROPRIATE TECHNOLOGIES II INC.
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 11/01/1987
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 11/01/1987
Event: PA OR CERCLA INSPECTION

Event date: 11/01/1987
Event: LEAD AGENCY DETERMINATION

Event date: 05/27/1989
Event: RFA COMPLETED

Event date: 05/27/1989
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 05/27/1989
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Event date: 09/15/1989
Event: PA OR CERCLA INSPECTION

Event date: 04/20/1991
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 06/29/1991
Event: RFA COMPLETED

Event date: 06/29/1991
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 09/28/1992
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 09/28/1992
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 09/28/1992
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 06/24/1993
Event: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL

Event date: 04/01/1994
Event: INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED

Event date: 06/14/1994
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 02/22/1995
Event: INVESTIGATION COMPLETE

Event date: 08/12/2010
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 08/12/2010
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 12/08/2010
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 12/08/2010
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 12/08/2010
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 12/08/2010
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 09/20/2011
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Event date: 09/20/2011
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 09/20/2011
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 10/02/2012
Event: READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE

Facility Has Received Notices of Violations:

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 11/29/1995
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/26/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 12/28/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 11/29/1995
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/26/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 11/29/1995

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/26/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 12/28/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 12/28/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 12/28/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 11/28/1994
Date achieved compliance: 12/07/1994
Violation lead agency: EPA

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/28/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 07/12/1994
Date achieved compliance: 12/07/1994
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 04/20/1994
Date achieved compliance: 07/12/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 04/07/1994
Date achieved compliance: 04/20/1994
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 04/07/1994
Date achieved compliance: 04/20/1994
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enforcement action date: 06/02/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 04/07/1994
Date achieved compliance: 04/20/1994
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/02/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enforcement lead agency: State
Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 06/22/1993
Date achieved compliance: 12/14/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 07/08/1992
Date achieved compliance: 01/21/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 03/10/1992
Date achieved compliance: 12/14/1993
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/22/1991
Date achieved compliance: 12/14/1993
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 10/16/1990
Date achieved compliance: 05/30/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/30/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 10/16/1990
Date achieved compliance: 05/30/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/30/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 10/16/1990
Date achieved compliance: 05/30/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/30/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 10/16/1990
Date achieved compliance: 05/30/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 09/25/1990
Date achieved compliance: 10/16/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 09/25/1990
Date achieved compliance: 10/16/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 04/26/1990
Date achieved compliance: 08/27/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/07/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 12/06/1989
Date achieved compliance: 09/07/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/08/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 12/06/1989
Date achieved compliance: 09/07/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/08/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 12/06/1989
Date achieved compliance: 09/07/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/08/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 12/06/1989
Date achieved compliance: 09/07/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/08/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 03/20/1989
Date achieved compliance: 08/23/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 24000
Final penalty amount: 24000
Paid penalty amount: Not reported

Regulation violated: FR - 270

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Area of violation: TSD - General
Date violation determined: 03/20/1989
Date achieved compliance: 08/23/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 24000
Final penalty amount: 24000
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 03/20/1989
Date achieved compliance: 08/23/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 24000
Final penalty amount: 24000
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 06/01/1988
Date achieved compliance: 08/12/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/13/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 12/08/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/26/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/25/1996
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/11/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 05/08/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/29/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/29/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/28/1995
Evaluation lead agency: State

Evaluation date: 05/25/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/29/1995
Evaluation lead agency: EPA

Evaluation date: 11/29/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/12/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/07/1994
Evaluation lead agency: EPA

Evaluation date: 07/12/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/07/1994
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 04/20/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/12/1994
Evaluation lead agency: State Contractor/Grantee

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Evaluation date: 03/03/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 04/20/1994
Evaluation lead agency: EPA

Evaluation date: 12/06/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 08/03/1995
Evaluation lead agency: State

Evaluation date: 12/06/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/03/1995
Evaluation lead agency: State

Evaluation date: 06/21/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/14/1993
Evaluation lead agency: State

Evaluation date: 01/21/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/21/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 07/08/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/21/1993
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 04/16/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 12/14/1993
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 11/22/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Date achieved compliance: 12/14/1993
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 10/22/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/18/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/16/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/30/1991
Evaluation lead agency: State

Evaluation date: 10/16/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/30/1991
Evaluation lead agency: State

Evaluation date: 10/02/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/25/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 10/16/1990
Evaluation lead agency: EPA

Evaluation date: 05/08/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/26/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/27/1990
Evaluation lead agency: State

Evaluation date: 12/06/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 09/07/1990
Evaluation lead agency: EPA

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Evaluation date: 12/06/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 09/07/1990
Evaluation lead agency: EPA

Evaluation date: 03/20/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/23/1989
Evaluation lead agency: State

Evaluation date: 03/20/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/23/1989
Evaluation lead agency: State

Evaluation date: 06/06/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/01/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/12/1988
Evaluation lead agency: State

RCRA-SQG:
Date form received by agency: 03/04/1999
Facility name: APPROPRIATE TECHNOLOGIES II INC.
Site name: APPROPRIATE TECHNOLOGIES II, INC.
Facility address: 1700 MAXWELL RD
CHULA VISTA, CA 91911
EPA ID: CAT080010101
Mailing address: 2210 SOUTH AZUSA AVE
WEST COVINA, CA 91792
Contact: JOHN FAULKNER
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: 626-965-0911
Telephone ext.: 319
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

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

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

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

Historical Generators:

Date form received by agency: 09/01/1996
Site name: APPROPRIATE TECHNOLOGIES II INC.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: APPROPRIATE TECHNOLOGIES II INC.
Classification: Small Quantity Generator

Date form received by agency: 02/27/1996
Site name: APPROPRIATE TECHNOLOGIES II INC
Classification: Large Quantity Generator

Date form received by agency: 03/30/1994
Site name: APPROPRIATE TECHNOLOGIES 11, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/16/1992
Site name: APPROPRIATE TECHNOLOGIES II
Classification: Large Quantity Generator

Date form received by agency: 04/16/1990
Site name: APPROPRIATE TECHNOLOGIES II
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: APPROPRIATE TECHNOLOGIES II INC.
Classification: Large Quantity Generator

Corrective Action Summary:

Event date: 11/01/1987
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 11/01/1987
Event: PA OR CERCLA INSPECTION

Event date: 11/01/1987
Event: LEAD AGENCY DETERMINATION

Event date: 05/27/1989
Event: RFA COMPLETED

Event date: 05/27/1989
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Event date: 05/27/1989
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 09/15/1989
Event: PA OR CERCLA INSPECTION

Event date: 04/20/1991
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 06/29/1991
Event: RFA COMPLETED

Event date: 06/29/1991
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 09/28/1992
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 09/28/1992
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 09/28/1992
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 06/24/1993
Event: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL

Event date: 04/01/1994
Event: INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED

Event date: 06/14/1994
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 02/22/1995
Event: INVESTIGATION COMPLETE

Event date: 08/12/2010
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 08/12/2010
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 12/08/2010
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 12/08/2010
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 12/08/2010
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 12/08/2010
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Event date: 09/20/2011
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 09/20/2011
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 09/20/2011
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 10/02/2012
Event: READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE

Facility Has Received Notices of Violations:
Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 11/29/1995
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/26/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 12/28/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 11/29/1995
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/26/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.30-37.C

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 11/29/1995
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/26/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 12/28/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 12/28/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/29/1995
Date achieved compliance: 12/28/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Date violation determined: 11/28/1994
Date achieved compliance: 12/07/1994
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/28/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 07/12/1994
Date achieved compliance: 12/07/1994
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 04/20/1994
Date achieved compliance: 07/12/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 04/07/1994
Date achieved compliance: 04/20/1994
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 04/07/1994

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Date achieved compliance: 04/20/1994
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/02/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 04/07/1994
Date achieved compliance: 04/20/1994
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/02/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enforcement action date: 03/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 04/19/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/18/1994
Date achieved compliance: 08/03/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/19/1994

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 37000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 06/22/1993
Date achieved compliance: 12/14/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 07/08/1992
Date achieved compliance: 01/21/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 03/10/1992
Date achieved compliance: 12/14/1993
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/22/1991
Date achieved compliance: 12/14/1993
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 10/16/1990
Date achieved compliance: 05/30/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/30/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 10/16/1990
Date achieved compliance: 05/30/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/30/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 10/16/1990
Date achieved compliance: 05/30/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/30/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 10/16/1990
Date achieved compliance: 05/30/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 09/25/1990
Date achieved compliance: 10/16/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 09/25/1990
Date achieved compliance: 10/16/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 04/26/1990
Date achieved compliance: 08/27/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/07/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 12/06/1989
Date achieved compliance: 09/07/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/08/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 12/06/1989
Date achieved compliance: 09/07/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/08/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 12/06/1989
Date achieved compliance: 09/07/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/08/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 12/06/1989
Date achieved compliance: 09/07/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/08/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 03/20/1989
Date achieved compliance: 08/23/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 24000

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Final penalty amount: 24000
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/20/1989
Date achieved compliance: 08/23/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 24000
Final penalty amount: 24000
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 03/20/1989
Date achieved compliance: 08/23/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 24000
Final penalty amount: 24000
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 06/01/1988
Date achieved compliance: 08/12/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/13/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 12/08/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/26/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Evaluation date: 10/25/1996
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/11/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 05/08/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/29/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/29/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/28/1995
Evaluation lead agency: State

Evaluation date: 05/25/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/29/1995
Evaluation lead agency: EPA

Evaluation date: 11/29/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/12/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/07/1994
Evaluation lead agency: EPA

Evaluation date: 07/12/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/07/1994
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 04/20/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Date achieved compliance: 07/12/1994
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 03/03/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 04/20/1994
Evaluation lead agency: EPA

Evaluation date: 12/06/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 08/03/1995
Evaluation lead agency: State

Evaluation date: 12/06/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/03/1995
Evaluation lead agency: State

Evaluation date: 06/21/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/14/1993
Evaluation lead agency: State

Evaluation date: 01/21/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/21/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 07/08/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/21/1993
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 04/16/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 12/14/1993
Evaluation lead agency: EPA Contractor/Grantee

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Evaluation date: 11/22/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 12/14/1993
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 10/22/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/18/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/16/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/30/1991
Evaluation lead agency: State

Evaluation date: 10/16/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/30/1991
Evaluation lead agency: State

Evaluation date: 10/02/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/25/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 10/16/1990
Evaluation lead agency: EPA

Evaluation date: 05/08/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/26/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/27/1990
Evaluation lead agency: State

Evaluation date: 12/06/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Date achieved compliance: 09/07/1990
Evaluation lead agency: EPA

Evaluation date: 12/06/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 09/07/1990
Evaluation lead agency: EPA

Evaluation date: 03/20/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/23/1989
Evaluation lead agency: State

Evaluation date: 03/20/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/23/1989
Evaluation lead agency: State

Evaluation date: 06/06/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/01/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/12/1988
Evaluation lead agency: State

2020 COR ACTION:
EPA ID: CAT080010101
Region: 9
Action: Remedy Construction

NY MANIFEST:
Name: APPROPRIATE TECHNOLOGIES II
Address: 1700 MAXWELL ROAD
City,State,Zip: CHULA VISTA, CA 91911
Country: USA
EPA ID: CAT080010101
Facility Status: Not reported
Location Address 1: 1700 MAXWELL ROAD
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: CHULA VISTA
Location State: CA
Location Zip: 92011
Location Zip 4: Not reported

NY MANIFEST:
EPAID: CAT080010101
Mailing Name: APPROPRIATE TECHNOLOGIES II
Mailing Contact: APPROPRIATE TECHNOLOGIES II

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Mailing Address 1:	1700 MAXWELL ROAD
Mailing Address 2:	Not reported
Mailing City:	CHULA VISTA
Mailing State:	CA
Mailing Zip:	92011
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	6194211175

NY MANIFEST:

Document ID:	NYB7314453
Manifest Status:	K
seq:	Not reported
Year:	1996
Trans1 State ID:	11284PNY
Trans2 State ID:	Not reported
Generator Ship Date:	09/16/1996
Trans1 Recv Date:	09/16/1996
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/04/1996
Part A Recv Date:	/ /
Part B Recv Date:	10/22/1996
Generator EPA ID:	CAT080010101
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00008
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00011

APPROPRIATE TECHNOLOGIES II INC. (Continued) **1000367959**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00126
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00008
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	P098 - POTASSIUM CYANIDE
Quantity:	00234
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	P098 - POTASSIUM CYANIDE
Quantity:	00234
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

A7 **A&W SMELTER AND REFINERS** **SEMS** **1015730659**
SSE **SILVER QUEEN RD** **RCRA-SQG** **CAD982416604**
1/4-1/2 **MOJAVE, CA 93501** **PRP**
0.360 mi. **LEAD SMELTERS**
1901 ft. **Site 4 of 6 in cluster A** **CA HAZNET**

Relative:
Higher

Actual:
349 ft.

SEMS:

Site ID:	0904755
EPA ID:	CAD982416604
Cong District:	44
FIPS Code:	06073
Latitude:	Not reported
Longitude:	Not reported
FF:	N
NPL:	Not on the NPL

A&W SMELTER AND REFINERS (Continued) **1015730659**

Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:

Region:	09
Site ID:	0904755
EPA ID:	CAD982416604
Site Name:	A & W SMELTER
NPL:	N
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	1993-02-01 05:00:00
Finish Date:	2/1/1993 5:00:00 AM
Qual:	V
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0904755
EPA ID:	CAD982416604
Site Name:	A & W SMELTER
NPL:	N
FF:	N
OU:	00
Action Code:	BB
Action Name:	PRP RV
SEQ:	1
Start Date:	1993-01-19 05:00:00
Finish Date:	3/16/1993 5:00:00 AM
Qual:	C
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0904755
EPA ID:	CAD982416604
Site Name:	A & W SMELTER
NPL:	N
FF:	N
OU:	00
Action Code:	RV
Action Name:	RMVL
SEQ:	1
Start Date:	1993-01-14 05:00:00
Finish Date:	1/19/1993 5:00:00 AM
Qual:	C
Current Action Lead:	EPA Perf

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	A&W SMELTER AND REFINERS
Facility address:	SILVER QUEEN RD MOJAVE, CA 93501
EPA ID:	CAD982416604
Mailing address:	PO BOX 67 MOJAVE, CA 93501

A&W SMELTER AND REFINERS (Continued) **1015730659**

Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	A&W SMELTER
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No

A&W SMELTER AND REFINERS (Continued) **1015730659**

Used oil transporter: No

Historical Generators:
Date form received by agency: 12/14/1987
Site name: A&W SMELTER AND REFINERS
Classification: Large Quantity Generator

Violation Status: No violations found

PRP:
EPAID: CAD982416604
Site ID: 0904755
Name: A & W SMELTER
Address: 1700 MAXWELL ROAD
City,State,Zip: CHULA VISTA, CA 91911
NPL Status: Not on the NPL
NPL Status Short Name: Removal Only Site (No Site Assessment Work Needed)
PRP Name: JOHN A. ALEXANDER
PRP Address: Not reported
PRP City: Not reported
PRP State: Not reported
PRP Zip: Not reported
Data Type: SETTLEMENT DATE
Action Date: 1/15/1993
Settlement Code: UA-1
Settlement: UNL ORDR

PRP Name: A & W SMELTERS AND REFINERS
PRP Address: Not reported
PRP City: Not reported
PRP State: Not reported
PRP Zip: Not reported
Data Type: SETTLEMENT DATE
Action Date: 1/15/1993
Settlement Code: UA-1
Settlement: UNL ORDR

PRP Name: DARYL WESTERFIELD
PRP Address: Not reported
PRP City: Not reported
PRP State: Not reported
PRP Zip: Not reported
Data Type: SETTLEMENT DATE
Action Date: 1/15/1993
Settlement Code: UA-1
Settlement: UNL ORDR

Lead Smelter Sites:
Site ID: 904755
Facility Region Id: 9
Latitude: Not reported
Longitude: Not reported
CoC Ind: N
Contaminant Name: LEAD
FF Ind: N
NAI: N
Non-Primary Site-Sub Type: Not reported

A&W SMELTER AND REFINERS (Continued) **1015730659**

NPL:	Not on the NPL
Primary Site-Sub Type:	Unknown (Other)
Special Initiative:	Not reported

HAZNET:

Name:	A&W SMELTER AND REFINERS
Address:	SILVER QUEEN RD
City,State,Zip:	MOJAVE, CA 935010000
Year:	1993
GEPAID:	CAD982416604
Contact:	DARYL WESTERFELD/PRES
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	PO BOX 67
Mailing City,St,Zip:	MOJAVE, CA 935020000
Gen County:	Kern
TSD EPA ID:	NVT330010000
TSD County:	99
Tons:	106.1928
CA Waste Code:	611-Contaminated soil from site clean-up
Method:	-
Facility County:	Kern

Name:	A&W SMELTER AND REFINERS
Address:	SILVER QUEEN RD
City,State,Zip:	MOJAVE, CA 935010000
Year:	1993
GEPAID:	CAD982416604
Contact:	DARYL WESTERFELD/PRES
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	PO BOX 67
Mailing City,St,Zip:	MOJAVE, CA 935020000
Gen County:	Kern
TSD EPA ID:	CAT080010101
TSD County:	San Diego
Tons:	140
CA Waste Code:	611-Contaminated soil from site clean-up
Method:	H01-Transfer Station
Facility County:	Kern

Name:	A&W SMELTER AND REFINERS
Address:	SILVER QUEEN RD
City,State,Zip:	MOJAVE, CA 935010000
Year:	1992
GEPAID:	CAD982416604
Contact:	DARYL WESTERFELD/PRES
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	PO BOX 67
Mailing City,St,Zip:	MOJAVE, CA 935020000
Gen County:	Kern
TSD EPA ID:	CAD000633164
TSD County:	Imperial
Tons:	8.428
CA Waste Code:	181-Other inorganic solid waste
Method:	D80-Disposal, Land Fill

A&W SMELTER AND REFINERS (Continued) **1015730659**

Facility County: Kern

A8 **BKK CORPORATION** **CA SWF/LF** **S113121403**
SSE **1700 MAXWELL ROAD** **CA San Diego Co. HMMD** **N/A**
1/4-1/2 **CHULA VISTA, CA 92011** **CA CERS HAZ WASTE**
0.360 mi. **CA HIST UST**
1901 ft. **Site 5 of 6 in cluster A** **CA HAZNET**
CA CERS

Relative:
Higher

Actual:
349 ft.

SAN DIEGO CO. LF:

Name:	OTAY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA
Facility Status:	ACTIVE SITES
Operational Status:	ACTIVE
Region:	SAN DIEGO
SWIS Number:	37-AA-0010
Owner Name:	OTAY LANDFILL INC
Operator:	OTAY LANDFILL INC C/O REPUBLIC SERVICES INC
Facility Type:	LARGE LANDFILLS
Facility Type2:	LANDFILL
PERMTIER:	FULL
Inspection Frequency:	MONTHLY

HMMD SAN DIEGO:

Name:	RECYCLE X LLC
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Permit Number:	Not reported
Business Type:	Not reported
EPA Id Number:	CAL000403900
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	619-44-2000
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	05/02/2018
Facility Owner:	Not reported
Facility Mailing Address:	1463 Fayette Street, El Cajon, CA 92020
Facility Mailing City:	Not reported
Facility Mailing State:	Not reported
Facility Mailing 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

Inspection Violation:

Record ID:	DEH2014-HUPFP-001503
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-001503
Program Element:	Hazardous Waste Generator
Inspection Type:	Status Verification
Inspection Number:	5186135

BKK CORPORATION (Continued) **S113121403**

Return To Compliance Date: 2018-02-13T00:00:00.000
Nov: No
Violation Classification: Minor
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2019-05-01T05:00:33.000
Inspection Date: 2015-12-04T15:10:00.000
Violation Code: 3030007 Failed to properly label/date hazardous waste container and/or tank. 22 CCR 66262.34(f)

Record ID: DEH2014-HUPFP-001503
Permit Status: Expired
Active Permit: N
Facility Id Number: 37-000-001503
Program Element: Hazardous Waste Generator
Inspection Type: Status Verification
Inspection Number: 5186135
Return To Compliance Date: 2018-02-13T00:00:00.000
Nov: No
Violation Classification: Minor
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2019-05-01T05:00:33.000
Inspection Date: 2015-12-04T15:10:00.000
Violation Code: HMD0224 Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 22 CCR 66261.7(e),(f)

Record ID: DEH2014-HUPFP-001503
Permit Status: Expired
Active Permit: N
Facility Id Number: 37-000-001503
Program Element: Hazardous Waste Generator
Inspection Type: Status Verification
Inspection Number: 5186135
Return To Compliance Date: 2018-02-13T00:00:00.000
Nov: No
Violation Classification: Minor
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2019-05-01T05:00:33.000
Inspection Date: 2015-12-04T15:10:00.000
Violation Code: 3030019 Failed to inspect hazardous waste storage area at least weekly. (40 CFR 262.34(d)(2); 265.174.) 22 CCR 66262.34(d)(2)

Record ID: DEH2014-HUPFP-001503
Permit Status: Expired
Active Permit: N
Facility Id Number: 37-000-001503
Program Element: Hazardous Waste Generator
Inspection Type: Status Verification
Inspection Number: 5186135
Return To Compliance Date: 2018-02-13T00:00:00.000
Nov: No
Violation Classification: Class II
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2019-05-01T05:00:33.000

BKK CORPORATION (Continued) **S113121403**

Inspection Date:	2015-12-04T15:10:00.000
Violation Code:	3030015 Failed to accumulate or store hazardous waste in a lined/compatible container. (40 CFR 262.34(d)(2); 265.172) 22 CCR 66262.34(d)(2)

Record ID:	DEH2014-HUPFP-001503
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-001503
Program Element:	Hazardous Waste Generator
Inspection Type:	Status Verification
Inspection Number:	5186135
Return To Compliance Date:	2018-02-13T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2019-05-01T05:00:33.000
Inspection Date:	2015-12-04T15:10:00.000
Violation Code:	3030010 Accumulated waste too long (>180 or 270 days) (>90 days for an acutely hazardous waste). (40 CFR 262.34(e) and (f).) HSC 25201(a); 22 CCR 66262.34(d)

Record ID:	DEH2014-HUPFP-001503
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-001503
Program Element:	Hazardous Waste Generator
Inspection Type:	Status Verification
Inspection Number:	5186135
Return To Compliance Date:	2018-02-13T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2019-05-01T05:00:33.000
Inspection Date:	2015-12-04T15:10:00.000
Violation Code:	HMD0223 Failed to properly empty container, failed to manage non-empty container, or inner liner removed from a container. 22 CCR 66261.7(b),(d) and/or (r); 66262.34(f)

Record ID:	DEH2014-HUPFP-001503
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-001503
Program Element:	Hazardous Waste Generator
Inspection Type:	Status Verification
Inspection Number:	5186135
Return To Compliance Date:	2018-02-13T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2019-05-01T05:00:33.000
Inspection Date:	2015-12-04T15:10:00.000
Violation Code:	3010010 Failed to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for 3 years. HSC

BKK CORPORATION (Continued) **S113121403**

25160.2(b)(3), 25185(a)(4); 22 CCR 66262.40(a)

Record ID:	DEH2014-HUPFP-001503
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-001503
Program Element:	Hazardous Waste Generator
Inspection Type:	Status Verification
Inspection Number:	5186135
Return To Compliance Date:	2015-12-04T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2019-05-01T05:00:33.000
Inspection Date:	2015-12-04T15:10:00.000
Violation Code:	3010022 Failed to post, next to the telephone, emergency information containing the location of emergency equipment, contact names, and numbers. (40 CFR 262.34(d)(5)(ii).) 22 CCR 66262.34(d)(2)

Record ID:	DEH2014-HUPFP-001503
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-001503
Program Element:	Hazardous Waste Generator
Inspection Type:	Status Verification
Inspection Number:	5186135
Return To Compliance Date:	2018-02-13T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2019-05-01T05:00:33.000
Inspection Date:	2015-12-04T15:10:00.000
Violation Code:	3030030 Failed to maintain and/or operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents. (40 CFR 262.34(d)(4), 265.31.) 22 CCR 66262.34(d)(2)

Record ID:	DEH2014-HUPFP-001503
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-001503
Program Element:	Hazardous Waste Generator
Inspection Type:	Initial Inspection
Inspection Number:	5906285
Return To Compliance Date:	2018-05-02T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2019-05-01T05:00:33.000
Inspection Date:	2018-02-13T16:29:00.000
Violation Code:	HMD0131 Unified Program Facility Permit not obtained &/or maintained for the generation of hazardous waste. SDCC 68.905

Record ID: DEH2014-HUPFP-001503

BKK CORPORATION (Continued) **S113121403**

Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-001503
Program Element:	Hazardous Materials Release Response Plans
Inspection Type:	Status Verification
Inspection Number:	5186135
Return To Compliance Date:	2018-02-13T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2019-05-01T05:00:33.000
Inspection Date:	2015-12-04T15:10:00.000
Violation Code:	1010001 HMBP not established/ implemented. HSC 25505(a) and 25507(a)

Record ID:	DEH2014-HUPFP-001503
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-001503
Program Element:	Hazardous Materials Release Response Plans
Inspection Type:	Status Verification
Inspection Number:	5186135
Return To Compliance Date:	2018-02-13T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2019-05-01T05:00:33.000
Inspection Date:	2015-12-04T15:10:00.000
Violation Code:	1020002 Initial and/or annual employee training not conducted for hazardous materials management and/or employee training records not available or not maintained for 3 years. HSC 25505(a)(4)

Waste and Materials:

Record ID:	DEH2014-HUPFP-001503
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0146653
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-10-25T22:22:50.000
Chemical Name:	Used Oil
Common Name:	Used Oil
Case Number:	Not reported

CERS HAZ WASTE:

Name:	RECYCLE X LLC
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Site ID:	60869
CERS ID:	10611652
CERS Description:	Hazardous Waste Generator

HIST UST:

Name:	BKK CORPORATION

BKK CORPORATION (Continued) **S113121403**

Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 92011
File Number:	0002ACA9
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002ACA9.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

Name:	MR BULT'S INC
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Year:	2008
GEPAID:	CAL000257439
Contact:	WBATY@SBCGLOBAL.NET
Telephone:	7088680059
Mailing Name:	Not reported
Mailing Address:	2631 E 139TH ST
Mailing City,St,Zip:	BURNHAM, IL 60633
Gen County:	San Diego
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Tons:	0.15
CA Waste Code:	352-Other organic solids
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Diego
Name:	MR BULT'S INC
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Year:	2007
GEPAID:	CAL000257439
Contact:	WBATY@SBCGLOBAL.NET
Telephone:	7088680059
Mailing Name:	Not reported
Mailing Address:	2631 E 139TH ST
Mailing City,St,Zip:	BURNHAM, IL 60633
Gen County:	San Diego

BKK CORPORATION (Continued) **S113121403**

TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Tons:	0.051
CA Waste Code:	343-Unspecified organic liquid mixture
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	San Diego

CERS:

Name:	APPROPRIATE TECHNOLO
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 919116156
Site ID:	334677
CERS ID:	80001820
CERS Description:	Corrective Action

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	* Unknown
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Name:	RECYCLE X LLC
Address:	1700 MAXWELL RD
City,State,Zip:	CHULA VISTA, CA 91911
Site ID:	60869
CERS ID:	10611652
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	60869
Site Name:	Recycle X LLC
Violation Date:	02-13-2018
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/02/2018. Inspection Sequence ID:5906285;Violation:HMD0131 Unified Program Facility Permit not obtained &/or maintained for the generation of hazardous waste. SDCC 68.905
Violation Division:	San Diego County Department of Env Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	60869
Site Name:	Recycle X LLC
Violation Date:	12-04-2015
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or

BKK CORPORATION (Continued) **S113121403**

non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..

Violation Notes: Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135
Violation Division: San Diego County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 60869
Site Name: Recycle X LLC
Violation Date: 12-04-2015
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135
Violation Division: San Diego County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 60869
Site Name: Recycle X LLC
Violation Date: 12-04-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135;Violation:HMD0224 Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 22 CCR 66261.7(e),(f)
Violation Division: San Diego County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 60869
Site Name: Recycle X LLC
Violation Date: 12-04-2015
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135
Violation Division: San Diego County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 60869
Site Name: Recycle X LLC
Violation Date: 12-04-2015
Citation: 40 CFR 1 265.172 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.172
Violation Description: Failure to accumulate or store hazardous waste in a lined/compatible container.
Violation Notes: Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135

BKK CORPORATION (Continued) **S113121403**

Violation Division: San Diego County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 60869
Site Name: Recycle X LLC
Violation Date: 12-04-2015
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes: Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135
Violation Division: San Diego County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 60869
Site Name: Recycle X LLC
Violation Date: 12-04-2015
Citation: 40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description: Failure to inspect hazardous waste storage areas at least weekly.
Violation Notes: Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135
Violation Division: San Diego County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 60869
Site Name: Recycle X LLC
Violation Date: 12-04-2015
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes: Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135
Violation Division: San Diego County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 60869
Site Name: Recycle X LLC
Violation Date: 12-04-2015
Citation: 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description: Failure to post, next to the telephone, Emergency Information (SQG) containing the location of emergency equipment, contact names and numbers.
Violation Notes: Returned to compliance on 12/04/2015. Inspection Sequence ID:5186135
Violation Division: San Diego County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 60869
Site Name: Recycle X LLC
Violation Date: 12-04-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22,

BKK CORPORATION (Continued) **S113121403**

	Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135
Violation Division:	San Diego County Department of Env Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	60869
Site Name:	Recycle X LLC
Violation Date:	12-04-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 02/13/2018. Inspection Sequence ID:5186135;Violation:HMD0223 Failed to properly empty container, failed to manage non-empty container, or inner liner removed from a container. 22 CCR 66261.7(b),(d) and/or (r); 66262.34(f)
Violation Division:	San Diego County Department of Env Health
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-13-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Luna Raisa Inspection ID:5906285
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-04-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector: Campanella Luke Inspection ID:5186135
Eval Division:	San Diego County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-04-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector: Campanella Luke Inspection ID:5186135
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	60869
Facility Name:	Recycle X LLC
Env Int Type Code:	HWG

BKK CORPORATION (Continued) **S113121403**

Program ID:	10611652
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	32.604930
Longitude:	-117.004840

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Rob Trabucco
Entity Title:	President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	San Diego County Env Health
Entity Title:	Not reported
Affiliation Address:	PO Box 129261
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92112-9261
Affiliation Phone:	(858) 505-6880

Affiliation Type Desc:	Parent Corporation
Entity Name:	Recycle X LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Rob Trabucco
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Rob Trabucco
Entity Title:	Not reported
Affiliation Address:	PO Box 675241
Affiliation City:	Rancho Santa Fe
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92067
Affiliation Phone:	(858) 880-5197

BKK CORPORATION (Continued) **S113121403**

Affiliation Type Desc:	Operator
Entity Name:	Recycle X LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(619) 448-2000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Rob Trabucco
Entity Title:	Not reported
Affiliation Address:	1463 Fayette Street
Affiliation City:	El Cajon
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92020
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1463 Fayette Street
Affiliation City:	El Cajon
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92020
Affiliation Phone:	Not reported

Name:	OTAY LANDFILL
Address:	1700 MAXWELL ROAD
City,State,Zip:	CHULA VISTA, CA 91911-6156
Site ID:	484801
CERS ID:	110000832243
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	MIKE KAISER
Entity Title:	Not reported
Affiliation Address:	8364 CLAIREMONT MESA BLVD
Affiliation City:	SANDIEGO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Tom Gardner
Entity Title:	Not reported
Affiliation Address:	8514 MAST BLVD
Affiliation City:	SANTEE
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A9 SSE 1/4-1/2 0.362 mi. 1910 ft. | **OTAY SANITARY LANDFILL**
OTAY VALLEY ROAD
CHULA VISTA, CA 92011 | **CA ENVIROSTOR** | **S101481986**
N/A

Site 6 of 6 in cluster A

Relative: Higher

Actual: 349 ft.

ENVIROSTOR:

Name:	OTAY SANITARY LANDFILL
Address:	OTAY VALLEY ROAD
City,State,Zip:	CHULA VISTA, CA 92011
Facility ID:	37490031
Status:	Refer: RWQCB
Status Date:	04/25/1995
Site Code:	400112
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	Not reported
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	0
Longitude:	0
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	P43072
Alias Type:	PCode
Alias Name:	400112
Alias Type:	Project Code (Site Code)
Alias Name:	37490031
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	11/04/2014
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

10 South 1/4-1/2 0.415 mi. 2191 ft. | **OTAY CLASS 1 LANDFILL**
OTAY VALLEY RD 2 MI EAST 805
CHULA VISTA CA, CA 91910 | **CA WMUDS/SWAT**
CA HIST CORTESE | **S102005059**
N/A

Relative: Lower

Actual: 269 ft.

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.
Primary Waste:	SLDWST
Primary Waste Type:	Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Secondary Waste:	Process Waste (Waste produced as part of the industrial/manufacturing process)
Secondary Waste Type:	H
Base Meridian:	SB
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	County
Agency Name:	SAN DIEGO CO,INACTIVE LANDFILL
Agency Department:	SOLID WASTE MANAGEMENT
Agency Address:	5555 OVERLAND AVE
Agency City,St,Zip:	SAN DIEGO CA 92123
Agency Contact:	JON ROLLIN
Agency Telephone:	6196942160
Land Owner Name:	SAN DIEGO, COUNTY OF
Land Owner Address:	5555 OVERLAND AVENUE, BLDG 1
Land Owner City,St,Zip:	SAN DIEGO, CA 92123
Land Owner Contact:	GRANVILLE BOWMAN, DIRECTOR
Land Owner Phone:	6196942164
Region:	9
Facility Type:	Solid Waste Site-Class I - A solid waste facility at which hazardous waste may be treated or stored.
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	OTAY VALLEY LANDFILL
Primary SIC:	4953
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	SAN DIEGO COUNTY
Threat to Water Quality:	Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink

OTAY CLASS 1 LANDFILL (Continued) **S102005059**

water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.

Sub Chapter 15:	True
Regional Board Project Officer:	BKM
Number of WMUDS at Facility:	1
Section Range:	18S01W18
RCRA Facility:	No
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Quarterly Submittal
Waste Discharge System ID:	9 000000213
Solid Waste Information ID:	37-AA-0009

Edit Date:	Not reported
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.
Primary Waste:	SLDWST
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste:	Process Waste (Waste produced as part of the industrial/manufacturing process)
Secondary Waste Type:	N
Base Meridian:	SB
NPID:	Not reported
Tonnage:	1407
Regional Board ID:	Not reported
Municipal Solid Waste:	True
Superorder:	True
Open To Public:	False
Waste List:	True
Agency Type:	Private
Agency Name:	OTAY LANDFILL, INC
Agency Department:	SOLID WASTE MANAGEMENT
Agency Address:	7297 RONSON RD, STE G
Agency City,St,Zip:	SAN DIEGO CA 92111
Agency Contact:	MIKE KAISER
Agency Telephone:	6195412570
Land Owner Name:	SAN DIEGO, COUNTY OF
Land Owner Address:	5555 OVERLAND AVE, BLDG 1
Land Owner City,St,Zip:	SAN DIEGO, CA 92123
Land Owner Contact:	WILLIAM A. WORRELL DEPUTY DIRE
Land Owner Phone:	6196942164
Region:	9
Facility Type:	Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	OTAY ANNEX LANDFILL
Primary SIC:	4953
Secondary SIC:	Not reported
Comments:	Not reported

OTAY CLASS 1 LANDFILL (Continued) **S102005059**

Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	SAN DIEGO COUNTY
Threat to Water Quality:	Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Sub Chapter 15:	True
Regional Board Project Officer:	BKM
Number of WMUDS at Facility:	1
Section Range:	18S01W17
RCRA Facility:	No
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Quarterly Submittal
Waste Discharge System ID:	9 000000214
Solid Waste Information ID:	37-AA-0010

Edit Date:	Not reported
Complexity:	Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.
Primary Waste:	PROCES
Primary Waste Type:	Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Secondary Waste:	Process Waste (Waste produced as part of the industrial/manufacturing process)
Secondary Waste Type:	N
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	DARLING INTERNATIONAL
Agency Department:	Not reported
Agency Address:	251 O'CONNOR RIDGE BL STE 300
Agency City,St,Zip:	IRVING TX 75038
Agency Contact:	BILL MCMURTRY
Agency Telephone:	2147170300
Land Owner Name:	DARLING DELAWARE COMPANY
Land Owner Address:	8737 KING GEORGE DRIVE, SUITE
Land Owner City,St,Zip:	DALLAS, TX 75235
Land Owner Contact:	MEL ROSHANRAVAN
Land Owner Phone:	2146383920

OTAY CLASS 1 LANDFILL (Continued) **S102005059**

Region:	9
Facility Type:	Solid Waste Site-Class I - A solid waste facility at which hazardous waste may be treated or stored.
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	OMAR RENDERING COMPANY
Primary SIC:	21
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	OMAR RENDERING COMPANY
Threat to Water Quality:	Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Sub Chapter 15:	True
Regional Board Project Officer:	BKM
Number of WMUDS at Facility:	1
Section Range:	18S1W 19
RCRA Facility:	No
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Semiannual Submittal
Waste Discharge System ID:	9 000000215
Solid Waste Information ID:	Not reported

HIST CORTESE:

edr_fname:	OMAR RENDERING COMPANY
edr_fadd1:	4826 OTAY VALLEY
City,State,Zip:	CHULA VISTA, CA 92011
Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT269

edr_fname:	OMAR RENDERING COMPANY
edr_fadd1:	4826 OTAY VALLEY
City,State,Zip:	CHULA VISTA, CA 92011
Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2426

edr_fname:	OMAR RENDERING LANDFILL
edr_fadd1:	4826 OTAY VALLEY
City,State,Zip:	CHULA VISTA, CA 92011
Region:	CORTESE
Facility County Code:	37
Reg By:	WBC&D
Reg Id:	9 000000215

OTAY CLASS 1 LANDFILL (Continued) **S102005059**

edr_fname:	OMAR RENDERING DISPOSAL S
edr_fadd1:	4826 OTAY VALLEY
City,State,Zip:	CHULA VISTA, CA 92011
Region:	CORTESE
Facility County Code:	37
Reg By:	CALSI
Reg Id:	37200001

11
NNE
1/4-1/2
0.484 mi.
2555 ft.

SUNBOW ELEMENTARY SCHOOL
EAST PALOMAR STREET/PASEO LADERA
CHULA VISTA, CA 91910

CA ENVIROSTOR **S118756857**
CA SCH **N/A**

Relative:
Higher

Actual:
468 ft.

ENVIROSTOR:

Name:	SUNBOW ELEMENTARY SCHOOL
Address:	EAST PALOMAR STREET/PASEO LADERA
City,State,Zip:	CHULA VISTA, CA 91910
Facility ID:	37650013
Status:	No Action Required
Status Date:	08/27/2002
Site Code:	404362
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	10
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	79
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	32.61791
Longitude:	-117.0131
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	CHULA VISTA SD-SUNBOW ELEM
Alias Type:	Alternate Name
Alias Name:	SUNBOW ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	404362
Alias Type:	Project Code (Site Code)
Alias Name:	37650013
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	08/27/2002

SUNBOW ELEMENTARY SCHOOL (Continued) **S118756857**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/25/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/26/2002
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

SCH:

Name: SUNBOW ELEMENTARY SCHOOL
Address: EAST PALOMAR STREET/PASEO LADERA
City,State,Zip: CHULA VISTA, CA 91910
Facility ID: 37650013
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 10
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404362
Assembly: 79
Senate: 40
Special Program Status: Not reported
Status: No Action Required
Status Date: 08/27/2002
Restricted Use: NO
Funding: School District
Latitude: 32.61791
Longitude: -117.0131
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: CHULA VISTA SD-SUNBOW ELEM

SUNBOW ELEMENTARY SCHOOL (Continued) **S118756857**

Alias Type: Alternate Name
Alias Name: SUNBOW ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 404362
Alias Type: Project Code (Site Code)
Alias Name: 37650013
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 08/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/25/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/26/2002
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

12
SSW
1/2-1
0.607 mi.
3206 ft.

Relative:
Lower

Actual:
178 ft.

OMAR RENDERING LANDFILL
1886 AUTO PARK PLACE
CHULA VISTA, CA 91913

CA DEED **S100833528**
CA LDS **N/A**
CA BOND EXP. PLAN
CA Cortese
CA ENF
CA NPDES
CA CIWQS
CA CERS

DEED:
Name: FORMER OMAR RENDERING LANDFILL
Address: 1886 AUTO PARK PLACE
City,State,Zip: CHULA VISTA, CA 91910
Envirostor ID: L10003156547
Area: Not reported
Sub Area: Not reported
Site Type: LANDFILL
Status: Not reported
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 12/29/1999

OMAR RENDERING LANDFILL (Continued) **S100833528**

File Name: Geotracker Land Use/Deed Restrictions

LDS:

Name:	FORMER OMAR RENDERING LANDFILL
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91910
Global Id:	L10003156547
Latitude:	32.59704
Longitude:	-117.0246
Case Type:	Land Disposal Site
Status:	Open - Closed/with Monitoring
Status Date:	10/22/2013
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Caseworker:	SAM
Local Agency:	Not reported
RB Case Number:	2091200
LOC Case Number:	H02426-003
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply, Soil
EDR Link ID:	L10003156547
Potential Contaminants of Concern:	* Acids/Corrosives, Arsenic, * Chlorinated Hydrocarbons, Waste Oil / Motor / Hydraulic / Lubricating, Other Petroleum
Site History:	The Omar Rendering site is situated on 40 acres enclosed by a chain-link and wood fence. The facility accepted hazardous wastes from 1959 to 1978 and utilized evaporation ponds for disposal. Prior to 1980, the contents of six former Class I waste ponds were removed and disposed at a permitted off site location. In 1981, the impacted soil from beneath the Class I waste ponds was placed in a lined and capped waste cell in the northwest corner of the site, in accordance with RWQCB Order No. 80-06 (Closure Requirements for the Omar Rendering Company Dumpsite in the Otay River Valley). Subsequently, the waste cell has been maintained and monitored per RWQCB Order No. 87-141, [Waste Discharge Requirements (WDRs) for the Omar Rendering Company Closed Class I Disposal Site including Technical Change Order No. 1 Monitoring and Reporting Program], which was replaced by RWQCB Order No. 97-Annual/Semi-Annual Report April 2010 Former Omar Rendering Site 2 40 (Waste Discharge Requirements for Closure and Post-Closure Maintenance for the Class I Waste Management Containment Cell, Omar Rendering Facility, Darling International, which includes Monitoring and Reporting Program 97-40). Program No. 97-40 requires semi-annual groundwater monitoring and periodic monitoring and maintenance of the cap and surface water control features. The waste cell has the following physical properties: h Approximate waste cell area: 5 acres. h Stratigraphy, approximate depth below grade (City of Chula Vista Engineering Department, Samual F. Savino PE, As-built grading plan, sheet 4 of 7, Sections A-A and B-B, dated 10-27-82). 0-6 ft: clean soil cover 6-9 ft: compacted clay cap 9-53 ft: compacted soil waste There is currently no documented human health exposure. 53-56 ft: compacted clay liner (base is at approx. elev. of 155 feet mean sea level [MSL]) h The bottom of the waste cell is greater than 25 feet above the groundwater table (the water table is encountered at an elevation of 120 to 130 feet MSL in the vicinity of the waste cell). h Clay material used for liners was analyzed and determined to have a permeability of less than 1E-06 centimeters per second (cm/sec), and compacted to 90 percent relative compaction (Geocon, Testing and Observation Services During Grading Operations,

OMAR RENDERING LANDFILL (Continued) **S100833528**

dated January 1982). h The material placed in the waste cell was primarily impacted soil excavated from beneath the former Class I ponds and rendering waste ponds (pond contents were removed off site); consequently, the material is assumed to have a low organic content, and have low potential for generating methane gas. h The waste cell contents were compacted to at least 90 percent relative compaction (Geocon, January 1982). San Diego Water Board issued cleanup and abatement Order R9-2003-0080 and addendum no. 1 to that Order for cleanup and abatement of areas of the site impacted by pollutants from the former waste disposal pits located on site. The monitoring and maintenance of the Omar Landfill are covered by WDRs Order 97-40 (and addenda thereto) and a detection monitoring program issued under authority of Water Code section 13263, and the landfill is not part of the cleanup being conducted under the CAO.

Click here to access the California GeoTracker records for this facility:

CA BOND EXP. PLAN:

Reponsible Party:	BACKLOG SITE CLEANUP PLANNING REPORT
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	This site is projected to be remediated by responsible parties with reimbursement to DHS for its oversight/monitoring costs. However, if the responsible parties are unable to pay for site cleanup, another source of funds will need to be established.
Site Description:	This site is situated on 40 acres and is enclosed by chain link and wood fencing. The facility accepted hazardous wastes from 1959 to 1978 and utilized evaporation ponds for disposal. These ponds were excavated upon closure and the residues were left onsite.
Hazardous Waste Desc:	Chemicals disposed of onsite include petroleum hydrocarbons, acids, caustic solutions, and heavy metals. Soil samples indicate the presence of copper, chromium, nickel, lead, 1,1-dichloroethane, cadmium, dichlorodiphenyl, trichloroethane (TCA), aldrin, and polychlorinated biphenyls (PCBs).
Threat To Public Health & Env:	The public may be exposed to contaminated dust and/or volatile organic compounds if soil is disturbed. Ground water contamination could occur if the pond residuals are released from the disposal cell. Chronic exposures could occur if contaminated soils are left exposed after construction. There is no documented exposure at this time.
Site Activity Status:	The potential responsible party conducted a site assessment in Summer, 1988 to determine the location and concentrations of contaminants onsite and the potential to migrate off the property. DHS will evaluate the findings of the assessment to determine a priority for scheduling the site in future Bond Expenditure Plans.

CORTESE:

Name:	OMAR RENDERING LANDFILL
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91913
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	Not reported
Site/Facility Type:	Not reported
Cleanup Status:	Not reported
Status Date:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	CORTESE
Order No:	R9-1997-0040
Waste Discharge System No:	Not reported
Effective Date:	06/11/1997
Region 2:	9
WID Id:	9 000000215
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

ENF:

Name:	OMAR RENDERING LANDFILL
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	245992
Agency Name:	Land Bank
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class I - hazardous wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.59773
Place Longitude:	-117.02675
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFNONOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000215

OMAR RENDERING LANDFILL (Continued) **S100833528**

Reg Measure Id:	142900
Reg Measure Type:	WDR
Region:	9
Order #:	R9-1997-0040
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	06/11/1997
Expiration/Review Date:	06/11/2005
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	4/28/2005
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:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Active
Enforcement Id(EID):	389620
Region:	9
Order / Resolution Number:	R9-2013-0055
Enforcement Action Type:	Notice of Violation
Effective Date:	04/02/2013
Adoption/Issuance Date:	04/02/2013
Achieve Date:	Not reported
Termination Date:	11/30/2013
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV No. R9-2013-0055, Land Bank former Omar Rendering Site
Description:	For violations of Waste Discharge Requirements for Post-Closure maintenance and monitoring for Class 1 waste management unit (landfill) and CAO at former Omar Rendering facility.
Program:	LFOPER
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

Name:	OMAR RENDERING LANDFILL
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9

OMAR RENDERING LANDFILL (Continued) **S100833528**

Facility Id:	245992
Agency Name:	Land Bank
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class I - hazardous wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.59773
Place Longitude:	-117.02675
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFNONOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000215
Reg Measure Id:	142900
Reg Measure Type:	WDR
Region:	9
Order #:	R9-1997-0040
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	06/11/1997
Expiration/Review Date:	06/11/2005
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	4/28/2005
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	256773
Region:	9
Order / Resolution Number:	R9-2003-0080
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	03/27/2003
Adoption/Issuance Date:	03/27/2003
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Order R9-2003-0080, Cleanup and Abatement Order former Omar Rendering Site
Description:	Cleanup and abatement Order for investigation and remediation of condition of pollution from past discharges of wastes at the former Omar Rendering Site. Due dates: Site Conceptual Model 5/30/03,Site Investigation Report 8/29/03, and FS 12/30/03.
Program:	LNDISP
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

Name:	OMAR RENDERING LANDFILL
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	245992
Agency Name:	Land Bank
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class I - hazardous wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.59773
Place Longitude:	-117.02675
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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

OMAR RENDERING LANDFILL (Continued) **S100833528**

NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFNONOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000215
Reg Measure Id:	142900
Reg Measure Type:	WDR
Region:	9
Order #:	R9-1997-0040
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	06/11/1997
Expiration/Review Date:	06/11/2005
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	4/28/2005
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:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	248056
Region:	9
Order / Resolution Number:	R9-2002-0170
Enforcement Action Type:	Notice of Violation
Effective Date:	06/20/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	06/20/2002
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV Order R9-2002-0170, Failure to Report
Description:	Discharger failed to submit semi-annual and annual groundwater monitoring reports as required by WDR (Order

OMAR RENDERING LANDFILL (Continued) **S100833528**

	97-40) and M&RP 97-40.
Program:	LFNONOPER
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

Name:	OMAR RENDERING LANDFILL
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91913
Region:	9
Facility Id:	245992
Agency Name:	Land Bank
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class I - hazardous wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.59773
Place Longitude:	-117.02675
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
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:	0
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Solid wastes, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFNONOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000215
Reg Measure Id:	142900
Reg Measure Type:	WDR
Region:	9
Order #:	R9-1997-0040
Npdes# CA#:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	06/24/2013
Effective Date:	06/11/1997
Expiration/Review Date:	06/11/2005
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	4/28/2005
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:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	221498
Region:	9
Order / Resolution Number:	LT950605
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/05/1995
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000215
Description:	SITE CORRECTIVE ACTION ORDER replaced by closure requirements and CAO R9-2003-080 see reg meas. 256773
Program:	LFNONOPER
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

NPDES:

Name:	OMAR FORMER RENDERING PLANT
Address:	1886 AUTO PARK PL
City,State,Zip:	CHULA VISTA, CA 91911
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

WDID:	9 37I015817
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	05/25/2000
Operator Name:	Otay Mesa Ventures II LLC
Operator Address:	6380 S Fiddlers Green Circle
Operator City:	Greenwood Village
Operator State:	Colorado
Operator Zip:	80111

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	9
Regulatory Measure ID:	218742
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	9 37I015817
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/25/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Otay Mesa Ventures II LLC
Discharge Address:	6380 S Fiddlers Green Circle
Discharge City:	Greenwood Village
Discharge State:	Colorado
Discharge Zip:	80111
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	9
Regulatory Measure ID:	218742
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	9 37I015817
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

OMAR RENDERING LANDFILL (Continued) **S100833528**

Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	05/25/2000
Status:	Active
Status Date:	05/25/2000
Place Size:	5
Place Size Unit:	Acres
Contact:	Mark Unruh
Contact Title:	Project Manager
Contact Phone:	619-533-7301
Contact Phone Ext:	Not reported
Contact Email:	mark.unruh@aptim.com
Operator Name:	Otay Mesa Ventures II LLC
Operator Address:	6380 S Fiddlers Green Circle
Operator City:	Greenwood Village
Operator State:	Colorado
Operator Zip:	80111
Operator Contact:	TIMOTHY ROBERTS
Operator Contact Title:	Not reported
Operator Contact Phone:	720-554-8206
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	timothy.roberts@aptim.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Colorado
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Otay River
Certifier:	TIMOTHY ROBERTS
Certifier Title:	Project Manager
Certification Date:	10-AUG-15
Primary Sic:	4953-Refuse Systems
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Name:	MOSSY NISSAN SPECIAL EVENT AUCTION LOT
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91911
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	9 37C367857
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	09/18/2018
Operator Name:	160 Calle Magdalena LLC
Operator Address:	1546 Auto Park Way
Operator City:	Encondido
Operator State:	California
Operator Zip:	92029

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	9
Regulatory Measure ID:	441247
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	9 37C367857
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:	09/25/2013
Processed Date:	10/01/2013
Status:	Active
Status Date:	10/01/2013
Place Size:	5.1
Place Size Unit:	Acres
Contact:	Larry Lett
Contact Title:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Contact Phone:	760-744-3133
Contact Phone Ext:	Not reported
Contact Email:	lletts@lusardi.com
Operator Name:	160 Calle Magdalena LLC
Operator Address:	1546 Auto Park Way
Operator City:	Encondido
Operator State:	California
Operator Zip:	92029
Operator Contact:	John Epps
Operator Contact Title:	Secretary
Operator Contact Phone:	858-581-7942
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	JWE@mossy.com
Operator Type:	Private Business
Developer:	160 Calle Magdalena LLC
Developer Address:	1546 Auto Park Way
Developer City:	Encondido
Developer State:	California
Developer Zip:	92029
Developer Contact:	John Epps
Developer Contact Title:	Secretary
Constype Linear Utility Ind:	N
Emergency Phone:	760-522-7490
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	Y
Receiving Water Name:	Otay River
Certifier:	John Epps
Certifier Title:	CFO
Certification Date:	25-SEP-13
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	9
Regulatory Measure ID:	441247
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

WDID:	9 37C367857
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/01/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	160 Calle Magdalena LLC
Discharge Address:	1546 Auto Park Way
Discharge City:	Encondido
Discharge State:	California
Discharge Zip:	92029
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	OMAR FORMER RENDERING PLANT
Address:	1886 AUTO PARK PL
City,State,Zip:	CHULA VISTA, CA 91911
Facility Status:	Active
NPDES Number:	CAS000001
Region:	9
Agency Number:	0
Regulatory Measure ID:	218742
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	9 37I015817
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/25/2000
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	6380 S Fiddlers Green Circle
Discharge Name:	Otay Mesa Ventures II LLC
Discharge City:	Greenwood Village
Discharge State:	Colorado
Discharge Zip:	80111
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	9
Regulatory Measure ID:	218742
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	9 37I015817
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/25/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Otay Mesa Ventures II LLC

OMAR RENDERING LANDFILL (Continued) **S100833528**

Discharge Address:	6380 S Fiddlers Green Circle
Discharge City:	Greenwood Village
Discharge State:	Colorado
Discharge Zip:	80111
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	9
Regulatory Measure ID:	218742
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	9 37I015817
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:	05/09/2008
Processed Date:	05/25/2000
Status:	Active
Status Date:	05/25/2000
Place Size:	5
Place Size Unit:	Acres
Contact:	Mark Unruh
Contact Title:	Project Manager
Contact Phone:	619-533-7301
Contact Phone Ext:	Not reported
Contact Email:	mark.unruh@aptim.com
Operator Name:	Otay Mesa Ventures II LLC
Operator Address:	6380 S Fiddlers Green Circle
Operator City:	Greenwood Village
Operator State:	Colorado
Operator Zip:	80111
Operator Contact:	TIMOTHY ROBERTS
Operator Contact Title:	Not reported
Operator Contact Phone:	720-554-8206
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	timothy.roberts@aptim.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Colorado
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Otay River
Certifier:	TIMOTHY ROBERTS
Certifier Title:	Project Manager
Certification Date:	10-AUG-15
Primary Sic:	4953-Refuse Systems
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	MOSSY NISSAN SPECIAL EVENT AUCTION LOT
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91911
Facility Status:	Terminated
NPDES Number:	CAS000002
Region:	9
Agency Number:	0
Regulatory Measure ID:	441247
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	9 37C367857
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/01/2013
Termination Date Of Regulatory Measure:	09/18/2018
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1546 Auto Park Way
Discharge Name:	160 Calle Magdalena LLC
Discharge City:	Encondido
Discharge State:	California
Discharge Zip:	92029
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Region:	9
Regulatory Measure ID:	441247
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	9 37C367857
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:	09/25/2013
Processed Date:	10/01/2013
Status:	Active
Status Date:	10/01/2013
Place Size:	5.1
Place Size Unit:	Acres
Contact:	Larry Lett
Contact Title:	Not reported
Contact Phone:	760-744-3133
Contact Phone Ext:	Not reported
Contact Email:	lletts@lusardi.com
Operator Name:	160 Calle Magdalena LLC
Operator Address:	1546 Auto Park Way
Operator City:	Encondido
Operator State:	California
Operator Zip:	92029
Operator Contact:	John Epps
Operator Contact Title:	Secretary
Operator Contact Phone:	858-581-7942
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	JWE@mossy.com
Operator Type:	Private Business
Developer:	160 Calle Magdalena LLC
Developer Address:	1546 Auto Park Way
Developer City:	Encondido
Developer State:	California
Developer Zip:	92029
Developer Contact:	John Epps
Developer Contact Title:	Secretary
Constype Linear Utility Ind:	N
Emergency Phone:	760-522-7490
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	Y
Receiving Water Name:	Otay River
Certifier:	John Epps
Certifier Title:	CFO
Certification Date:	25-SEP-13
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	9
Regulatory Measure ID:	441247
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	9 37C367857
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/01/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	160 Calle Magdalena LLC
Discharge Address:	1546 Auto Park Way
Discharge City:	Encondido
Discharge State:	California
Discharge Zip:	92029
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	OMAR FORMER RENDERING PLANT
Address:	1886 AUTO PARK PL
City,State,Zip:	CHULA VISTA, CA 91911
Agency:	Otay Mesa Ventures II LLC
Agency Address:	6380 S Fiddlers Green Circle # 310, Greenwood Village, CO 80111
Place/Project Type:	Industrial - Refuse Systems
SIC/NAICS:	4953
Region:	9
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	9 37I015817
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	05/25/2000
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	32.59773
Longitude:	-117.02675

Name:	OMAR RENDERING LANDFILL
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91913
Agency:	Land Bank
Agency Address:	4171 Essen Lane, Baton Rouge, LA 70809
Place/Project Type:	Land fill
SIC/NAICS:	4953
Region:	9
Program:	LFNONOPER, LNDISP
Regulatory Measure Status:	Active
Regulatory Measure Type:	WDR
Order Number:	R9-1997-0040
WDID:	9 000000215
NPDES Number:	Not reported
Adoption Date:	06/11/1997
Effective Date:	06/11/1997
Termination Date:	Not reported
Expiration/Review Date:	06/11/2005
Design Flow:	0
Major/Minor:	Not reported
Complexity:	A
TTWQ:	1
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	32.59773
Longitude:	-117.02675

Name:	MOSSY NISSAN SPECIAL EVENT AUCTION LOT
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91911
Agency:	160 Calle Magdalena LLC
Agency Address:	1546 Auto Park Way, Encondido, CA 92029
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	9
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	9 37C367857
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	10/01/2013
Termination Date:	09/18/2018
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0

OMAR RENDERING LANDFILL (Continued) **S100833528**

Violations within 5 years: 0
Latitude: 32.59777
Longitude: -117.02667

CERS:
Name: OMAR RENDERING LANDFILL
Address: 1886 AUTO PARK
City,State,Zip: CHULA VISTA, CA 91913
Site ID: 347164
CERS ID: 245992
CERS Description: Land Disposal

Violations:
Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 06-17-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Discharger failed to submit semi-annual groundwater monitoring report as required by WDRs (Order 97-40) and M&RP 97-40.
Violation Division: Water Boards
Violation Program: LFNONOPER
Violation Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 03-12-2013
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failure to maintain surface water drainage facilities (BMPs) pursuant to CAO Order No. R9-2003-0080, Section E. Monitoring Reporting Program section E.1.c.
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 03-04-2013
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failure to report change of ownership for Class I waste management unit (landfill) per Provision C.7 and Reporting Requirement D.3 of Order No. 97-40.
Violation Division: Water Boards
Violation Program: LFNONOPER
Violation Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 11-01-1989
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Discharger (Darling International) submitted SWAT Report for waste management unit reporting release of chlorinated volatile constituents to groundwater.
Violation Division: Water Boards

OMAR RENDERING LANDFILL (Continued) **S100833528**

Violation Program: LFNONOPER
Violation Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 06-17-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Discharger failed to submit annual groundwater monitoring report as required by WDRs (Order 97-40) and M&RP 97-40.
Violation Division: Water Boards
Violation Program: LFNONOPER
Violation Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 06-21-1996
Citation: California Water Code
Violation Description: Not reported
Violation Notes: FENCE IS DOWN AT ENTRANCE. RECENT DUMPING(GREENWASTE) PURGE BARRELS ON SITE FROM 95
Violation Division: Water Boards
Violation Program: LFNONOPER
Violation Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 06-15-1989
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Past discharges of wastes created a condition of pollution and/or nuisance in ground water at the site.
Violation Division: Water Boards
Violation Program: LFNONOPER
Violation Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 06-15-1989
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Past discharges of wastes into surface impoundments and ponds resulted in pollution of groundwater resources with metals and chlorinated VOCs.
Violation Division: Water Boards
Violation Program: LFNONOPER
Violation Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 01-30-1992
Citation: California Water Code
Violation Description: Not reported
Violation Notes: FAILURE TO SUBMIT REQUIRED JANUARY-DECEMBER 1991 ANNUAL MONITORING REPORT.
Violation Division: Water Boards
Violation Program: LFNONOPER

OMAR RENDERING LANDFILL (Continued) **S100833528**

Violation Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Violation Date: 03-12-2013
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Unauthorized discharges of wastes including: a) discharges of solid wastes (mattresses, tires, rubbish) and b) discharge of three drums labeled "purge/decon water", dated January 2013 and February 2013.
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-12-2013
Violations Found: Yes
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-15-2006
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-22-2002
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-1995
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2003
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported

OMAR RENDERING LANDFILL (Continued) **S100833528**

Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-21-1996
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2001
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-19-2006
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-1995
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-09-1999
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-12-2000
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFNONOPER
Eval Source: CIWQS

OMAR RENDERING LANDFILL (Continued) **S100833528**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-01-2002
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-16-2001
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-26-2016
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-07-2005
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-11-2001
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-03-2003
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-04-1995
Violations Found:	No

OMAR RENDERING LANDFILL (Continued) **S100833528**

Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-15-2004
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-09-2005
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-27-2003
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-05-2001
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-08-2007
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFNONOPER
Eval Source:	CIWQS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-11-1999
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards

OMAR RENDERING LANDFILL (Continued) **S100833528**

Eval Program: LFNONOPER
Eval Source: CIWQS

Enforcement Action:
Site ID: 347164
Site Name: Omar Rendering Landfill
Site Address: 1886 AUTO PARK
Site City: CHULA VISTA
Site Zip: 91913
Enf Action Date: 03-27-2003
Enf Action Type: Clean-up and Abatement Order
Enf Action Description: Clean-up and Abatement Order
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: LFNONOPER
Enf Action Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Site Address: 1886 AUTO PARK
Site City: CHULA VISTA
Site Zip: 91913
Enf Action Date: 04-02-2013
Enf Action Type: Notice of Violation (Water)
Enf Action Description: Notice of Violation Letter (Informal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: LFNONOPER
Enf Action Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Site Address: 1886 AUTO PARK
Site City: CHULA VISTA
Site Zip: 91913
Enf Action Date: 06-05-1995
Enf Action Type: Clean-up and Abatement Order
Enf Action Description: Clean-up and Abatement Order
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: LFNONOPER
Enf Action Source: CIWQS

Site ID: 347164
Site Name: Omar Rendering Landfill
Site Address: 1886 AUTO PARK
Site City: CHULA VISTA
Site Zip: 91913
Enf Action Date: 06-20-2002
Enf Action Type: Notice of Violation (Water)
Enf Action Description: Notice of Violation Letter (Informal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: LFNONOPER
Enf Action Source: CIWQS

OMAR RENDERING LANDFILL (Continued) **S100833528**

Affiliation:

Affiliation Type Desc:	Interested Party
Entity Name:	John Odermatt
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regulating
Entity Name:	San Diego Regional Water Quality Control Board
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Name:	FORMER OMAR RENDERING LANDFILL
Address:	1886 AUTO PARK PLACE
City,State,Zip:	CHULA VISTA, CA 91910
Site ID:	209355
CERS ID:	L10003156547
CERS Description:	Land Disposal Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	SARAH A. MEARON - SAN DIEGO RWQCB (REGION 9)
Entity Title:	Not reported
Affiliation Address:	2375 NORTHSIDE DRIVE, SUITE 100
Affiliation City:	SAN DIEGO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	6195213363

Name:	OMAR FORMER RENDERING PLANT
Address:	1886 AUTO PARK PL
City,State,Zip:	CHULA VISTA, CA 91911
Site ID:	538399
CERS ID:	252758
CERS Description:	Industrial Facility Storm Water

Violations:

Site ID:	538399
Site Name:	Omar Former Rendering Plant
Violation Date:	07-02-2002
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient Report
Violation Notes:	Non-submittal of Industrial Storm Water Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

OMAR RENDERING LANDFILL (Continued) **S100833528**

Enforcement Action:

Site ID:	538399
Site Name:	Omar Former Rendering Plant
Site Address:	1886 AUTO PARK PL
Site City:	CHULA VISTA
Site Zip:	91911
Enf Action Date:	07-02-2002
Enf Action Type:	Notice of Non-Compliance for Non-Filers
Enf Action Description:	Notice of Non-Compliance for Non-Filers
Enf Action Notes:	Non-submittal of Industrial Storm Water Annual Report this is the old Omar Rendering site, the WDRs require continued coverage under 97-03-DWQ JRP 3/25/03
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Otay Mesa Ventures II LLC
Entity Title:	Operator
Affiliation Address:	6380 S Fiddlers Green Circle# 310
Affiliation City:	Greenwood Village
Affiliation State:	CO
Affiliation Country:	Not reported
Affiliation Zip:	80111
Affiliation Phone:	Not reported

13
SSW
1/2-1
0.774 mi.
4085 ft.

NAKANO FARMS
4501 OTAY VALLEY RD
CHULA VISTA, CA 91911

CA ENVIROSTOR **U001571103**
CA CPS-SLIC **N/A**
CA San Diego Co. HMMD
CA SWEEPS UST
CA HIST UST

Relative:
Lower

Actual:
144 ft.

ENVIROSTOR:

Name:	VINCENT DAVIES PROPERTY
Address:	4501 OTAY VALLEY ROAD
City,State,Zip:	CHULA VISTA, CA 92011
Facility ID:	37730292
Status:	Refer: Other Agency
Status Date:	08/21/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Cypress
Assembly:	79
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported

NAKANO FARMS (Continued) **U001571103**

Latitude: 32.59472
Longitude: -117.0227
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD983566779
Alias Type: EPA Identification Number
Alias Name: 37730292
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/25/1994
Comments: CalSites Validation Program confirms NFA for DTSC.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CPS-SLIC:
Name: PACO'S TRUCK REPAIR
Address: 4501 OTAY VALLEY RD
City,State,Zip: CHULA VISTA, CA 919116002
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 05/30/1996
Global Id: T0608113999
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H28262-001
Latitude: 32.594208
Longitude: -117.042898
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: 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:
Name: NAKANO FARMS
Address: 4501 OTAY VALLEY RD
City,State,Zip: CHULA VISTA, CA 91911
Permit Number: 106804

NAKANO FARMS (Continued) **U001571103**

Business Type:	6HK03
EPA Id Number:	Not reported
APN:	DEH-106804
Last HMMD Inspection:	Not reported
Facility Telephone:	619-421-6581
Permit Status:	INAC
Permit Expiration:	Not reported
Date Last Updated:	11/02/2012
Facility Owner:	NAKANO FARMS
Facility Mailing Address:	P.O. BOX P O BOX 57
Facility Mailing City:	NESTOR
Facility Mailing State:	CA
Facility Mailing Zip:	92053-
UST Owner:	NAKANO FARMS
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 106804 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	106804
Tank Type:	SINGLE WALL
Additional Id:	1
Capacity Gallons:	300
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	EXEMPT
Remove Close Date:	Not reported
Year Installed:	1968-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	GRAVITY
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

SWEEPS UST:

Name:	NAKANO FARMS
Address:	4501 OTAY VALLEY RD
City:	CHULA VISTA
Status:	Active
Comp Number:	6804
Number:	9
Board Of Equalization:	44-022391
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-006804-000001
Tank Status:	A
Capacity:	300
Active Date:	Not reported
Tank Use:	M.V. FUEL

NAKANO FARMS (Continued) **U001571103**

STG: P
Content: LEADED
Number Of Tanks: 1

HIST UST:

Name:	NAKANO FARMS
Address:	4501 OTAY VALLEY ROAD
City,State,Zip:	CHULA VISTA, CA 92011
File Number:	0002F086
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002F086.pdf
Region:	STATE
Facility ID:	00000050131
Facility Type:	Other
Other Type:	FARM
Contact Name:	Not reported
Telephone:	6194216581
Owner Name:	NAKANO FARMS
Owner Address:	4501 OTAY VALLEY ROAD
Owner City,St,Zip:	CHULA VISTA, CA 92011
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1968
Tank Capacity:	00000300
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	None

Click here for Geo Tracker PDF:

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14 South 1/2-1 0.812 mi. 4285 ft. **APACHE SERVICES** **CA ENVIROSTOR** **S100833516**
4551 OTAY VALLEY ROAD **CA BOND EXP. PLAN** **N/A**
CHULA VISTA, CA 92011

Relative: Lower
Actual: 140 ft.

ENVIROSTOR:

Name:	APACHE SERVICES
Address:	4551 OTAY VALLEY ROAD
City,State,Zip:	CHULA VISTA, CA 92011
Facility ID:	37500032
Status:	Refer: RWQCB
Status Date:	08/27/1990
Site Code:	400004
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	RWQCB 9 - San Diego
Lead Agency:	RWQCB 9 - San Diego
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	79
Senate:	40

APACHE SERVICES (Continued) **S100833516**

Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 32.59416
Longitude: -117.0213
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * Laboratory Waste Chemicals * EMPTY CONTAINERS, LESS THAN 30 GALLONS * OTHER INORGANIC SOLID WASTE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD980515860
Alias Type: EPA Identification Number
Alias Name: P43063
Alias Type: PCode
Alias Name: 400004
Alias Type: Project Code (Site Code)
Alias Name: 37500032
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/27/1990
Comments: RWQCB SITE REFERRED TO SAN DIEGO RWQCB. DELISTED FROM BEP BACKLOG. SITE SCREENING DONE PENDING: RWQCB LEAD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 02/19/1987
Comments: PRELIM ASSESS DONE STUDY DONE FOR RWQCB STATES THERE IS LOW PROBABILITY TOXINS WILL BE RELEASED. RWQCB IS LEAD AGENCY AND IS IMPLIMENTING PLAN INSURING NO TOXINS WILL BE RELEASED

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 01/13/1983
Comments: FACILITY IDENTIFIED VIA ROUTINE SURVEILLANCE

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

CA BOND EXP. PLAN:
Reponsible Party: BACKLOG SITE CLEANUP PLANNING REPORT
Project Revenue Source Company: Not reported
Project Revenue Source Addr: Not reported

APACHE SERVICES (Continued) **S100833516**

Project Revenue Source City,St,Zip: Not reported
Project Revenue Source Desc: This site is projected to be remediated by the responsible parties will reimbursement to DHS for its oversight activities. If the RPs are unable to fund site cleanup, another source of funds will need to be identified.
Site Description: The site was formerly a junkyard. Many of the wastes onsite are thought to be associated with nearby naval facilities.
Hazardous Waste Desc: Soil contamination includes low levels of copper, zinc, cadmium and lead. Hazardous wastes previously stored and spilled include petroleum distillates, solvents, electrical insulating oils, trichloroethane (TCA), chloroform, and perchloroethylene (PCE). The site is located on fill material.
Threat To Public Health & Env: There is some potential threat to the Otay River. Farmland is adjacent to the site. PCE and TCA were found in standing surface water and ground water. Ground water is within 12 feet of the surface. The site has been partially abated through removal of the most highly contaminated soil. This site will be further evaluated in the future to determine if additional cleanup action is necessary.
Site Activity Status: In February, 1981, a cleanup and abatement order was issued by the RWQCB, San Diego Region. DHS was working in coordination with the U.S. Navy, a potentially responsible party, when the salvage yard was destroyed by fire in August, 1985. Some subsequent surface removal occurred. There has been inadequate chatacterization to determine the current levels of contamination. Additional site characterization is necessary to confirm the adequacy of cleanup. The responsible parties are continuing remediation work under the oversight of the San Diego RWQCB.

15
SE
1/2-1
0.812 mi.
4285 ft.

PROPOSED OTAY RANCH VILLAGE 3 (SCHOOL NO. 47) SCHO **CA ENVIROSTOR** **S123133185**
CAMINO PRADO **CA SCH** **N/A**
CHULA VISTA, CA 91915

Relative:
Lower

Actual:
294 ft.

ENVIROSTOR:
Name: PROPOSED OTAY RANCH VILLAGE 3 (SCHOOL NO. 47) SCHOOL SITE
Address: CAMINO PRADO
City,State,Zip: CHULA VISTA, CA 91915
Facility ID: 60002706
Status: Active
Status Date: 08/15/2018
Site Code: 404954
Site Type: School Cleanup
Site Type Detailed: School
Acres: 8.33
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Rana Georges
Supervisor: Yolanda Garza
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: , 79
Senate: , 40
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 32.59712
Longitude: -117.0014
APN: 644-388-74-00
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Under Investigation Methane

PROPOSED OTAY RANCH VILLAGE 3 (SCHOOL NO. 47) SCHOOL SITE (Continued) **S123133185**

Confirmed COC: 30015-NO 31001-NO
Potential Description: UE
Alias Name: 644-388-74-00
Alias Type: APN
Alias Name: 404954
Alias Type: Project Code (Site Code)
Alias Name: 60002706
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 08/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 09/11/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 11/07/2018
Comments: DTSC issued a conditional approval of workplan, comments to be addressed during sampling and in the upcoming Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/10/2019
Comments: DTSC approved the PEA Report for further action.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/18/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 10/04/2018
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

PROPOSED OTAY RANCH VILLAGE 3 (SCHOOL NO. 47) SCHOOL SITE (Continued) **S123133185**

SCH:

Name:	PROPOSED OTAY RANCH VILLAGE 3 (SCHOOL NO. 47) SCHOOL SITE
Address:	CAMINO PRADO
City,State,Zip:	CHULA VISTA, CA 91915
Facility ID:	60002706
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	8.33
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Rana Georges
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404954
Assembly:	, 79
Senate:	, 40
Special Program Status:	Not reported
Status:	Active
Status Date:	08/15/2018
Restricted Use:	NO
Funding:	School District
Latitude:	32.59712
Longitude:	-117.0014
APN:	644-388-74-00
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Under Investigation, Methane
Confirmed COC:	30015-NO, 31001-NO
Potential Description:	UE
Alias Name:	644-388-74-00
Alias Type:	APN
Alias Name:	404954
Alias Type:	Project Code (Site Code)
Alias Name:	60002706
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement Application
Completed Date:	08/21/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	09/11/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	11/07/2018
Comments:	DTSC issued a conditional approval of workplan, comments to be

PROPOSED OTAY RANCH VILLAGE 3 (SCHOOL NO. 47) SCHOOL SITE (Continued) **S123133185**

addressed during sampling and in the upcoming Report.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/10/2019
Comments:	DTSC approved the PEA Report for further action.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	11/18/2018
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	10/04/2018
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

---

16 **OMAR RENDERING DISPOSAL SITE** **CA ENVIROSTOR** **S111842208**
SSE **4826 OTAY VALLEY ROAD** **N/A**
1/2-1 **CHULA VISTA, CA 92011**
0.842 mi.
4448 ft.

Relative:
Lower

Actual:
141 ft.

ENVIROSTOR:

Name:	OMAR RENDERING DISPOSAL SITE
Address:	4826 OTAY VALLEY ROAD
City,State,Zip:	CHULA VISTA, CA 92011
Facility ID:	37200001
Status:	Refer: RWQCB
Status Date:	02/08/2013
Site Code:	400109
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	5
NPL:	NO
Regulatory Agencies:	SAN DIEGO COUNTY
Lead Agency:	SAN DIEGO COUNTY
Program Manager:	Eileen Mananian
Supervisor:	Eileen Mananian
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	79
Senate:	40
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED

OMAR RENDERING DISPOSAL SITE (Continued) **S111842208**

Funding: Not reported
Latitude: 32.59361
Longitude: -117.0127
APN: NONE SPECIFIED
Past Use: LDF
Potential COC: * UNSPECIFIED ACID SOLUTION * UNSPECIFIED ALKALINE SOLUTIONS * AQUEOUS SOLUTION 2<PH<12.5, WITH REACTIVE ANIONS * LIME SLUDGE Chromium VI
Confirmed COC: NONE SPECIFIED
Potential Description: OTH
Alias Name: Darling Delaware
Alias Type: Alternate Name
Alias Name: OMAR RENDERING COMPANY
Alias Type: Alternate Name
Alias Name: L10003156547
Alias Type: GeoTracker Global ID
Alias Name: P43071
Alias Type: PCode
Alias Name: 400109
Alias Type: Project Code (Site Code)
Alias Name: 37200001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 03/24/1980
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/07/1995
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 12/28/1989
Comments: Technical Order Change and Swat

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 02/28/1982
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 12/21/1987
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 06/13/1997

OMAR RENDERING DISPOSAL SITE (Continued) **S111842208**

Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/08/1980
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/28/1980
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/28/1998
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Environmental Impact Report
Completed Date: 12/30/1981
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/06/1989
Comments: Site Screening Done: Responsible Party submitted PA/SI Rpt for DHS review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/06/1988
Comments: Site Screening Done: Draft sampling workplan reviewed. DHS representative surveyed the site via drive-by.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/06/1989
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 12/06/1990
Comments: Health Risk Assessment Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/11/1990
Comments: Not reported

OMAR RENDERING DISPOSAL SITE (Continued) **S111842208**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/09/1990
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 06/18/1991
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/01/1991
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/16/1991
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 09/26/1991
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/29/1991
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/31/1991
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/31/1991
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/25/1991
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

OMAR RENDERING DISPOSAL SITE (Continued) **S111842208**

Completed Date: 01/30/1992
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/27/1992
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/22/1992
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/20/1992
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/31/1992
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/27/1993
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/27/1993
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/20/1993
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/27/1993
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/16/1993
Comments: Completed

OMAR RENDERING DISPOSAL SITE (Continued) **S111842208**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/28/1994
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/31/1994
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/25/1994
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/27/1994
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/28/1994
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/30/1995
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/30/1995
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/24/1995
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/17/1995
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

OMAR RENDERING DISPOSAL SITE (Continued) **S111842208**

Completed Date: 07/21/1995
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/30/1995
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 10/01/1995
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/19/1996
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/19/1996
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/30/1996
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/11/1996
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/07/1996
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/08/1996
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/31/1997
Comments: Completed

OMAR RENDERING DISPOSAL SITE (Continued) **S111842208**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/31/1997
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/15/1997
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/31/1997
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/27/1997
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/31/1998
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/31/1998
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/30/1998
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/30/1998
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/30/1998
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

OMAR RENDERING DISPOSAL SITE (Continued) **S111842208**

Completed Date: 04/30/1999
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/30/1998
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/30/1999
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/18/1999
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/02/1999
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/28/1985
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/01/1980
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 02/11/1981
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/22/1982
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/29/1980
Comments: Completed

OMAR RENDERING DISPOSAL SITE (Continued) **S111842208**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	01/15/1981
Comments:	Facility identified via local agency. Sq Pit: 520 ft x 100 ft x 15 ft. 2nd Pit: 100 ft x 50 ft x 5 ft. Site originally designated as Class II; reclassed to Class I. RWQCB - Resol 59-F15 for discharge of Group I waste. Closure date undetermined; estimated to be late 1970s. Firm in operation but site is not.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Reassessment
Completed Date:	05/01/2012
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

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17 **BEHIND 536 HAMPSHIRE LANE** **CA Notify 65** **S100178302**
NW **N/A**
1/2-1 **CHULA VISTA, CA**
0.862 mi.
4551 ft.

Relative:
Lower

Actual:
319 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

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

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: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 01/13/2020
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: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 01/13/2020
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: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 01/13/2020
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: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/04/2019
Next Scheduled EDR Contact: 01/13/2020
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: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 01/27/2020
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: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 01/27/2020
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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/13/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
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: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
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: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
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: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 14

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
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: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
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: 08/12/2019
Date Data Arrived at EDR: 08/13/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 57

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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 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: 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 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: 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: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

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: No Update Planned

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 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 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 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 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

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
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: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 12/03/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
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: 07/02/2019
Date Data Arrived at EDR: 10/16/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 8

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
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: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 75

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

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: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
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: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 12/03/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
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: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 59

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
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: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
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: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
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: 11/01/2019
Next Scheduled EDR Contact: 02/10/2020
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: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
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: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
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: 06/30/2018
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 09/24/2019
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 7

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

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: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

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: 08/20/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/11/2019
Number of Days to Update: 70

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 7

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

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: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
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: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
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: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 89

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/06/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 58

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
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: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 79

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
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: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
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: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/07/2019
Next Scheduled EDR Contact: 01/20/2020
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: 12/02/2019
Next Scheduled EDR Contact: 02/24/2020
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: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
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: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/08/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 03/30/2020
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: 12/31/2017
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 370

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/02/2020
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: 09/30/2018
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 106

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/23/2019
Next Scheduled EDR Contact: 02/03/2020
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: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 03/16/2020
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: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
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: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 02/17/2020
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: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
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: 10/07/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

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: 06/20/2019
Date Data Arrived at EDR: 06/20/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 49

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
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: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/06/2019
Next Scheduled EDR Contact: 02/17/2020
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: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
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: 07/01/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 85

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2019
Date Data Arrived at EDR: 10/09/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 72

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
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: 10/06/2019
Next Scheduled EDR Contact: 01/19/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
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: 08/01/2019
Date Data Arrived at EDR: 08/21/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 82

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/15/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/27/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 76

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/27/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 09/17/2019
Date Data Arrived at EDR: 09/18/2019
Date Made Active in Reports: 12/03/2019
Number of Days to Update: 76

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 37

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/23/2020
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: 08/12/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 12/03/2019
Number of Days to Update: 90

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/10/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 07/06/2019
Date Data Arrived at EDR: 07/09/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/08/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 83

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 10/31/2019
Date Data Arrived at EDR: 11/01/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 40

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 09/27/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/12/2019
Number of Days to Update: 62

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 59

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/18/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/22/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 66

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 10/30/2019
Next Scheduled EDR Contact: 02/02/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
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: 08/16/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 05/29/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 54

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
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: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/07/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 30

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/08/2019
Next Scheduled EDR Contact: 01/20/2020
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: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/13/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 64

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
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: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/16/2019
Date Data Arrived at EDR: 09/18/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
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: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 11/18/2019
Number of Days to Update: 90

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 7

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 10/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 34

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 51

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/05/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/03/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/23/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 60

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 43

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/12/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 49

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/08/2019
Date Data Arrived at EDR: 10/10/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 62

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/08/2019
Date Data Arrived at EDR: 07/10/2019
Date Made Active in Reports: 09/20/2019
Number of Days to Update: 72

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 10/30/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/06/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 63

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/16/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/15/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/22/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 10/04/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 34

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2019
Date Data Arrived at EDR: 10/16/2019
Date Made Active in Reports: 12/12/2019
Number of Days to Update: 57

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/16/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/18/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/15/2019
Date Data Arrived at EDR: 07/17/2019
Date Made Active in Reports: 08/05/2019
Number of Days to Update: 19

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/22/2019
Date Data Arrived at EDR: 08/26/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 64

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 53

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 08/21/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 58

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/25/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 62

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/30/2019
Date Data Arrived at EDR: 10/30/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 42

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/09/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 61

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/06/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 64

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/05/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 61

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/17/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 12/13/2019
Number of Days to Update: 52

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 07/11/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/06/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/01/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/07/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 38

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/01/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 07/16/2019
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 09/24/2019
Number of Days to Update: 70

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/16/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 12/13/2019
Number of Days to Update: 52

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 07/30/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 67

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/18/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 29

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 36

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 07/18/2019
Date Data Arrived at EDR: 07/18/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 70

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 64

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 64

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 63

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 10/23/2019
Date Made Active in Reports: 12/13/2019
Number of Days to Update: 51

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 07/26/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/25/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 30

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 07/26/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
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: 05/14/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 08/05/2019
Number of Days to Update: 83

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/11/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
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: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/18/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SUNBOW CHULA VISTA
OLYMPIC PARKWAY
CHULA VISTA, CA 91911

TARGET PROPERTY COORDINATES

Latitude (North):	32.607942 - 32˚ 36’ 28.59’’
Longitude (West):	117.018698 - 117˚ 1’ 7.31’’
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	498245.6
UTM Y (Meters):	3607635.0
Elevation:	345 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5622818 IMPERIAL BEACH, CA
Version Date:	2012
Northeast Map:	5629178 JAMUL MOUNTAINS, CA
Version Date:	2012
Southeast Map:	5622896 OTAY MESA, CA
Version Date:	2012
Northwest Map:	5629176 NATIONAL CITY, CA
Version Date:	2012

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

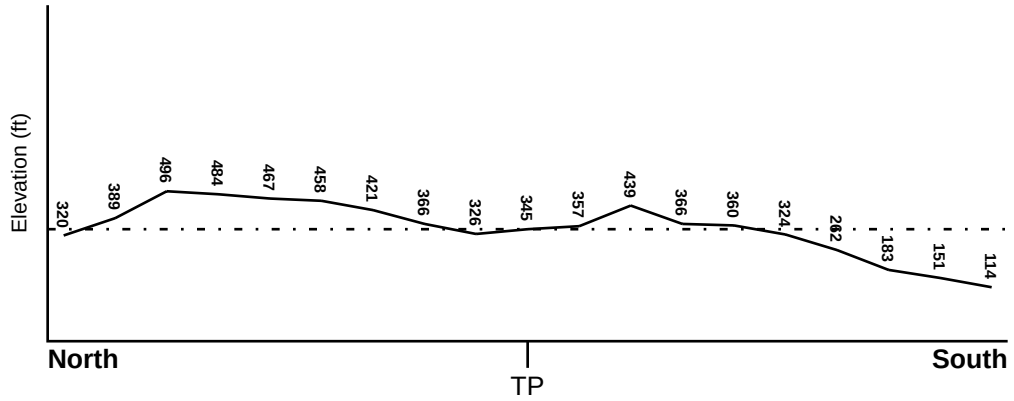
TOPOGRAPHIC INFORMATION

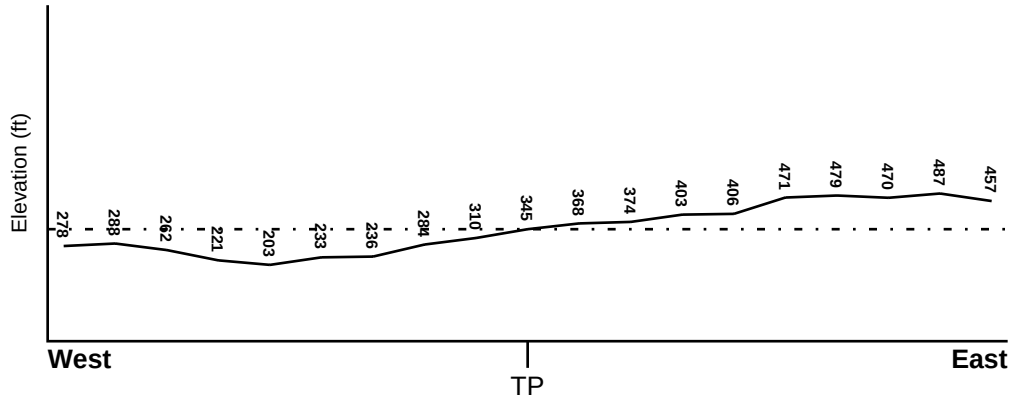
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 345 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06073C2157G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06073C2156G	FEMA FIRM Flood data
06073C2159G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
IMPERIAL BEACH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/2 - 1 Mile South
Site Name:	APPROPRIATE TECHNOLOGIES II
Site EPA ID Number:	CAT080010101
Groundwater Flow Direction:	W TOWARD SAN DIEGO BAY.
Inferred Depth to Water:	110 to 180 feet.
Hydraulic Connection:	Information is not available regarding the hydraulic connection between aquifer(s) underlying the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/2 - 1 Mile SSW	Varies
1G	1/2 - 1 Mile SSW	Varies

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

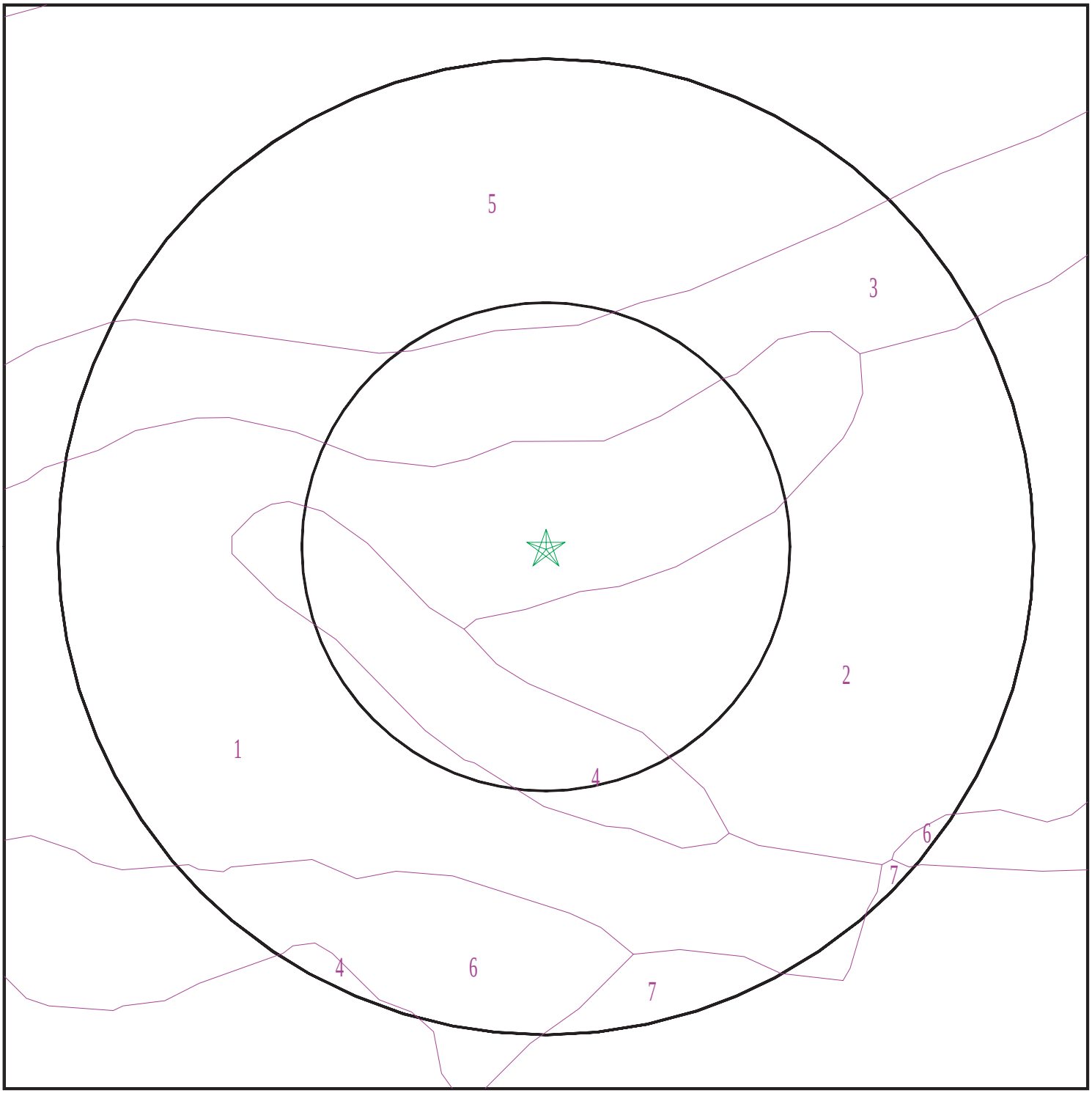
Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tp *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5914677.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Sunbow Chula Vista	CLIENT:	GeoSyntec Consultants
ADDRESS:	Olympic Parkway Chula Vista CA 91911	CONTACT:	Rosemary Propst
		INQUIRY #:	5914677.2s
LAT/LONG:	32.607942 / 117.018698	DATE:	December 23, 2019 12:32 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: DIABLO

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	14 inches	27 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	27 inches	31 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: DIABLO

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	14 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	31 inches	35 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: SALINAS

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	22 inches	46 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
3	46 inches	64 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

Soil Map ID: 4

Soil Component Name: LINNE

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	14 inches	37 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	37 inches	40 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 5

Soil Component Name: LINNE

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	14 inches	37 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	37 inches	40 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 6

Soil Component Name: OLIVENHAIN

Soil Surface Texture: cobbly loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	cobbly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 5.1
2	9 inches	27 inches	very cobbly clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 5.1
3	27 inches	44 inches	cobbly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 5.1

Soil Map ID: 7

Soil Component Name: MADE LAND

Soil Surface Texture: variable

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

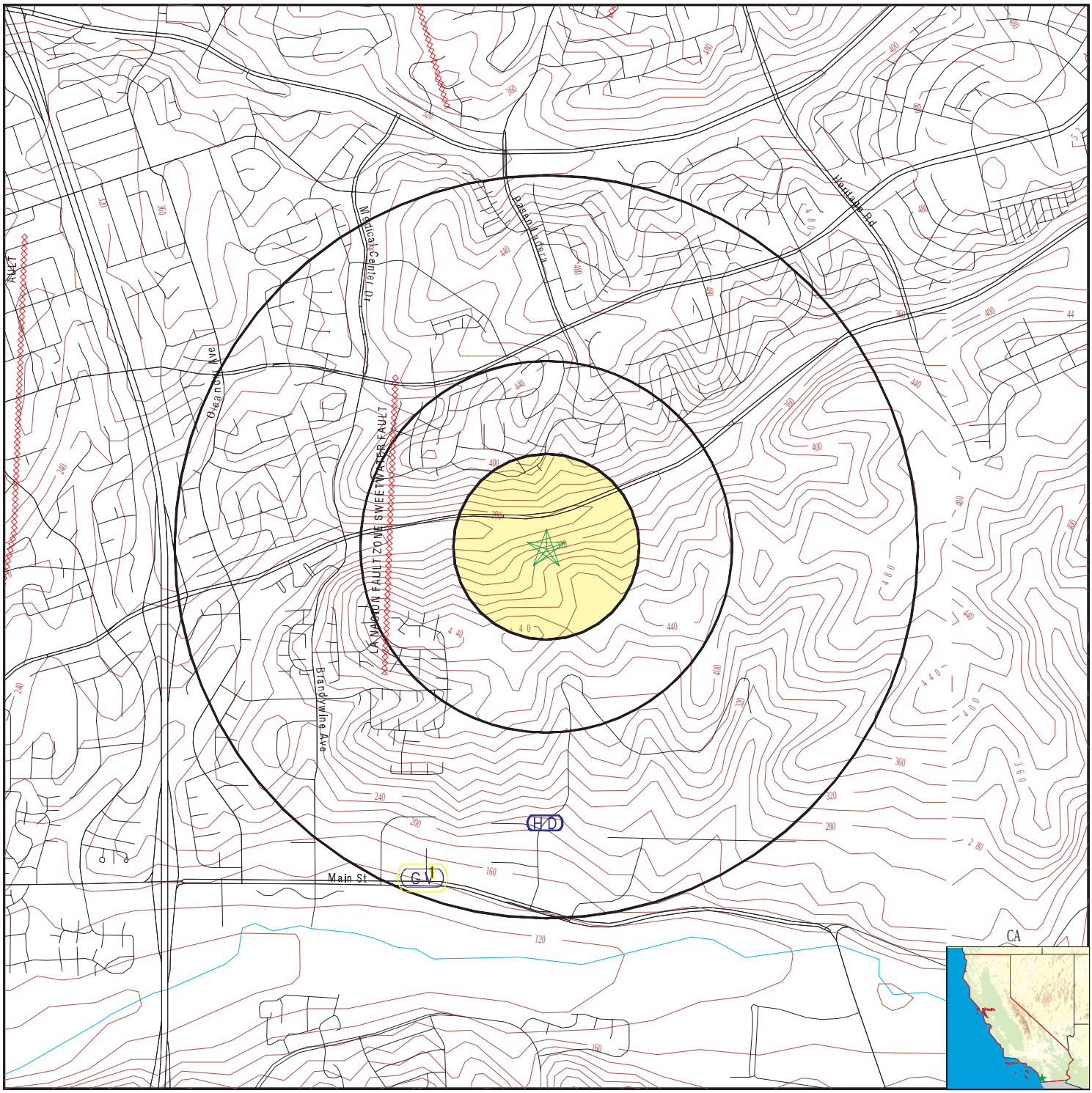
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 5914677.2s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

SITE NAME:	Sunbow Chula Vista	CLIENT:	GeoSyntec Consultants
ADDRESS:	Olympic Parkway Chula Vista CA 91911	CONTACT:	Rosemary Propst
LAT/LONG:	32.607942 / 117.018698	INQUIRY #:	5914677.2s
		DATE:	December 23, 2019 12:32 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **SSW** **1/2 - 1 Mile** **Lower**	Site ID:	Not Reported	**AQUIFLOW**	**34110**
	Groundwater Flow:	Varies		
	Shallow Water Depth:	18		
	Deep Water Depth:	35		
	Average Water Depth:	Not Reported		
	Date:	07/15/1989		
1G **SSW** **1/2 - 1 Mile** **Lower**	Site ID:	Not Reported	**AQUIFLOW**	**34110**
	Groundwater Flow:	Varies		
	Shallow Water Depth:	18		
	Deep Water Depth:	35		
	Average Water Depth:	Not Reported		
	Date:	07/15/1989		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91911	4	0

Federal EPA Radon Zone for SAN DIEGO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SAN DIEGO COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.677 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

APPENDIX D

EDR Aerial Photo Decade Package

Sunbow Chula Vista

Olympic Parkway

Chula Vista, CA 91911

Inquiry Number: 5914677.8

December 24, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

12/24/19

Site Name:

Sunbow Chula Vista
Olympic Parkway
Chula Vista, CA 91911
EDR Inquiry # 5914677.8

Client Name:

GeoSyntec Consultants
16644 West Bernardo Drive SUITE 301
SAN DIEGO, CA 92127
Contact: Rosemary Propst

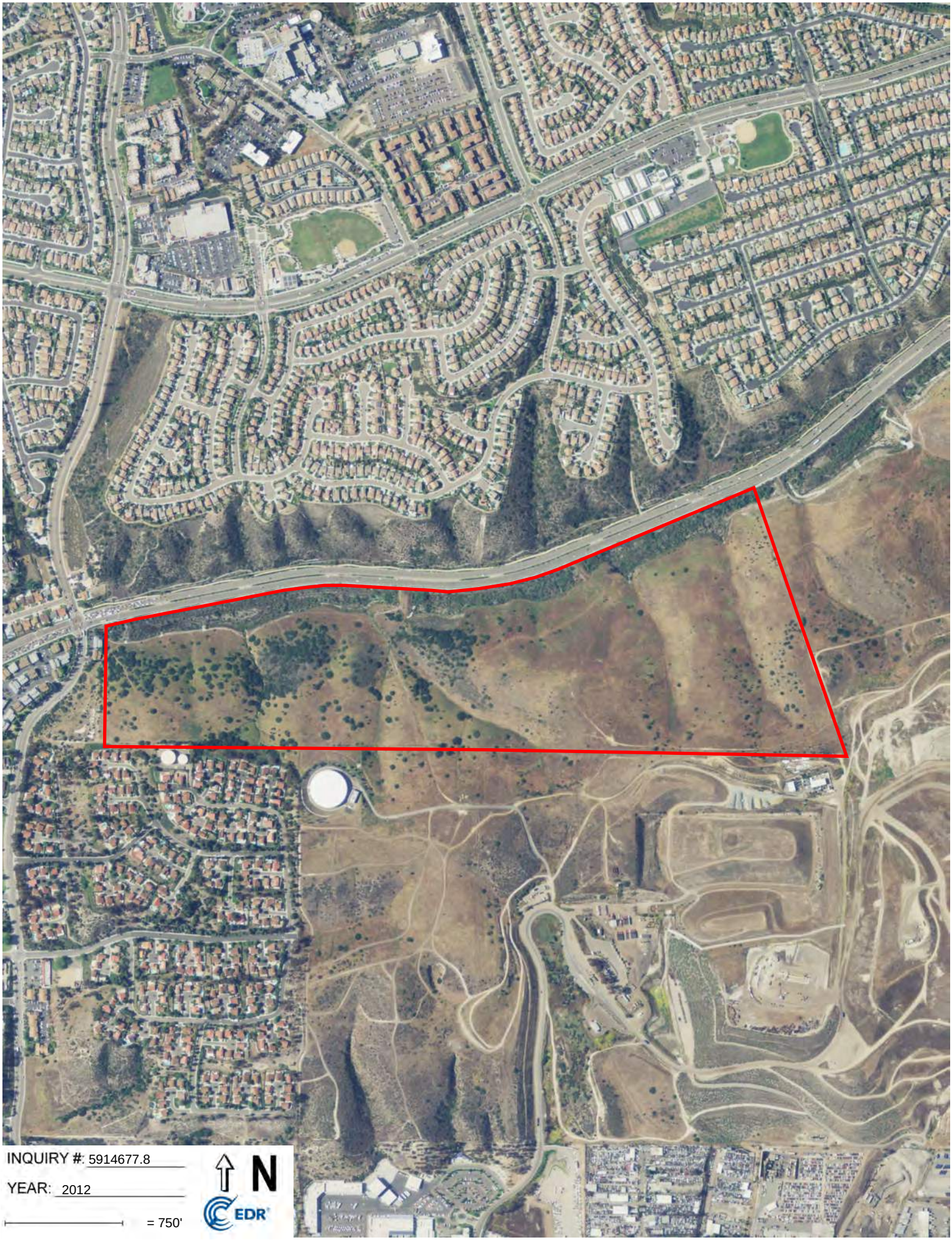
Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=750'	Flight Year: 2016	USDA/NAIP
2012	1"=750'	Flight Year: 2012	USDA/NAIP
2009	1"=750'	Flight Year: 2009	USDA/NAIP
2005	1"=750'	Flight Year: 2005	USDA/NAIP
1994	1"=750'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=750'	Flight Date: August 14, 1989	USDA
1985	1"=750'	Flight Date: August 05, 1985	USDA
1979	1"=750'	Flight Date: January 27, 1979	EDR Proprietary Landiscor
1970	1"=750'	Flight Date: March 06, 1970	EDR Proprietary Landiscor
1966	1"=750'	Flight Date: October 26, 1966	USGS
1964	1"=750'	Flight Date: April 07, 1964	USDA
1953	1"=750'	Flight Date: April 14, 1953	USDA
1949	1"=750'	Flight Date: February 16, 1949	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.


INQUIRY #: 5914677.8
YEAR: 2016
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 2012
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 2009
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 2005
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 1994
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 1989
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 1985
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 1979
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 1970
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 1966
= 750'
N
EDR

INQUIRY #: 5914677.8

YEAR: 1964

= 750'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.


INQUIRY #: 5914677.8
YEAR: 1953
= 750'
N
EDR


INQUIRY #: 5914677.8
YEAR: 1949
= 750'
N
EDR

APPENDIX E

EDR Historical Topographic Map Report

Sunbow Chula Vista

Olympic Parkway

Chula Vista, CA 91911

Inquiry Number: 5914677.4

December 23, 2019

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

12/23/19

Site Name:	Client Name:
Sunbow Chula Vista	GeoSyntec Consultants
Olympic Parkway	16644 West Bernardo Drive SUITE 301
Chula Vista, CA 91911	SAN DIEGO, CA 92127
EDR Inquiry # 5914677.4	Contact: Rosemary Propst

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by GeoSyntec Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	NA	**Latitude:**	32.607942 32° 36' 29" North
Project:	Lennar Sunbow Chula Vista	**Longitude:**	-117.018698 -117° 1' 7" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	498245.63
		UTM Y Meters:	3607824.87
		Elevation:	329.98' above sea level

Maps Provided:

2012
1994, 1996
1991
1975
1953, 1955
1943, 1944
1930
1904

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Jamul Mountains
2012
7.5-minute, 24000

Otay Mesa
2012
7.5-minute, 24000

Imperial Beach
2012
7.5-minute, 24000

National City
2012
7.5-minute, 24000

1994, 1996 Source Sheets

Jamul Mountains
1994
7.5-minute, 24000
Aerial Photo Revised 1994

Otay Mesa
1996
7.5-minute, 24000
Aerial Photo Revised 1996

Imperial Beach
1996
7.5-minute, 24000
Aerial Photo Revised 1996

National City
1996
7.5-minute, 24000
Aerial Photo Revised 1996

1991 Source Sheets

SAN DIEGO
1991
15-minute, 50000

JAMUL
1991
15-minute, 50000

1975 Source Sheets

Jamul Mountains
1975
7.5-minute, 24000
Aerial Photo Revised 1975

Otay Mesa
1975
7.5-minute, 24000
Aerial Photo Revised 1975

Imperial Beach
1975
7.5-minute, 24000
Aerial Photo Revised 1975

National City
1975
7.5-minute, 24000
Aerial Photo Revised 1975

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1953, 1955 Source Sheets

San Ysidro
1953
7.5-minute, 24000
Aerial Photo Revised 1950

National City
1953
7.5-minute, 24000
Aerial Photo Revised 1950

Otay Mesa
1955
7.5-minute, 24000
Aerial Photo Revised 1949

Jamul Mountains
1955
7.5-minute, 24000
Aerial Photo Revised 1953

1943, 1944 Source Sheets

San Ysidro
1943
7.5-minute, 31680

National City
1944
7.5-minute, 31680

1930 Source Sheets

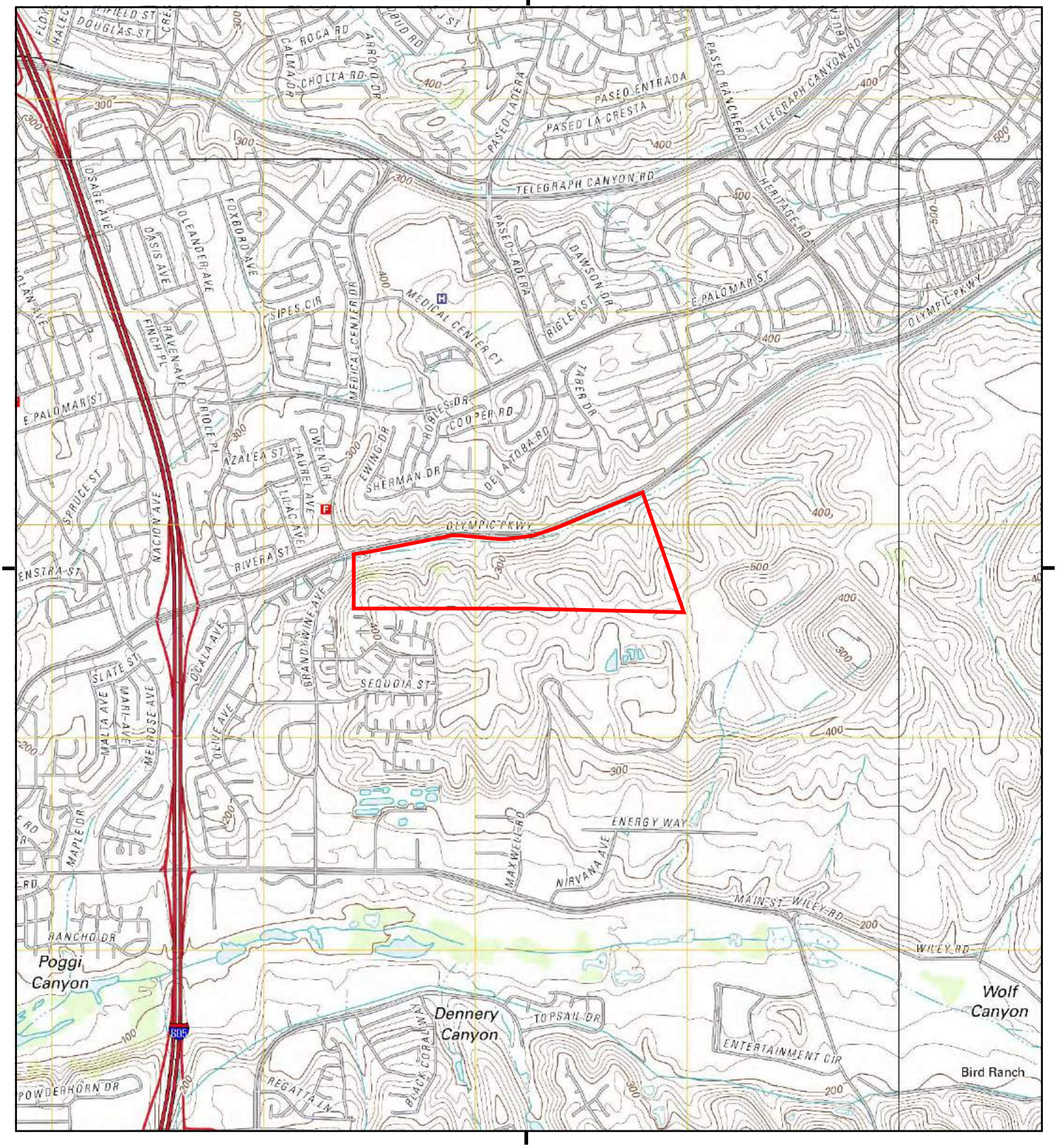
San Diego
1930
15-minute, 62500

1904 Source Sheets

San Diego
1904
15-minute, 62500

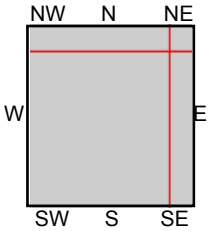
Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



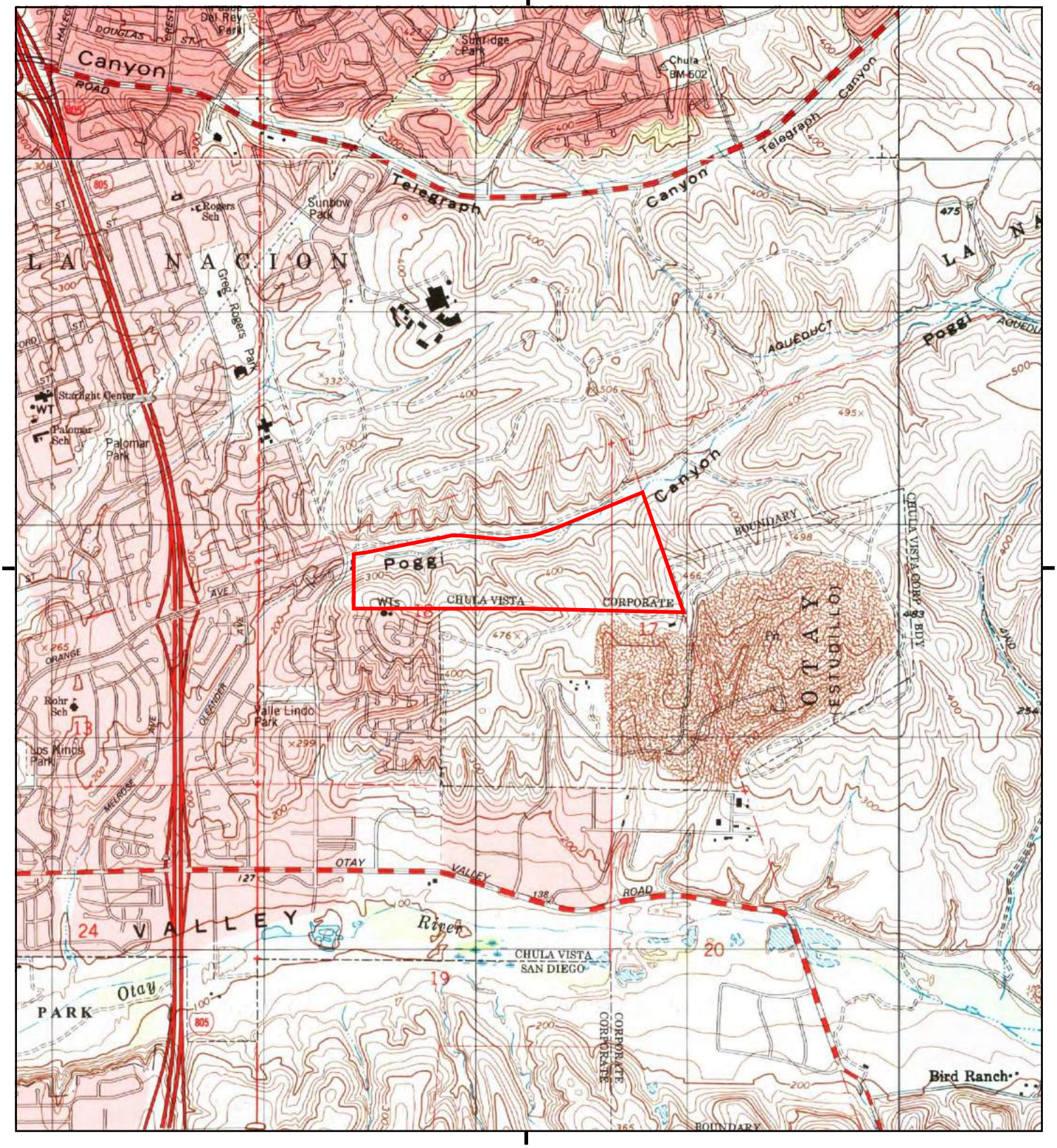
TP, Imperial Beach, 2012, 7.5-minute
NE, Jamul Mountains, 2012, 7.5-minute
SE, Otay Mesa, 2012, 7.5-minute
NW, National City, 2012, 7.5-minute

SITE NAME: Sunbow Chula Vista
ADDRESS: Olympic Parkway
Chula Vista, CA 91911
CLIENT: GeoSyntec Consultants

N

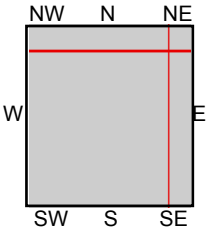
Historical Topo Map

1994, 1996



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



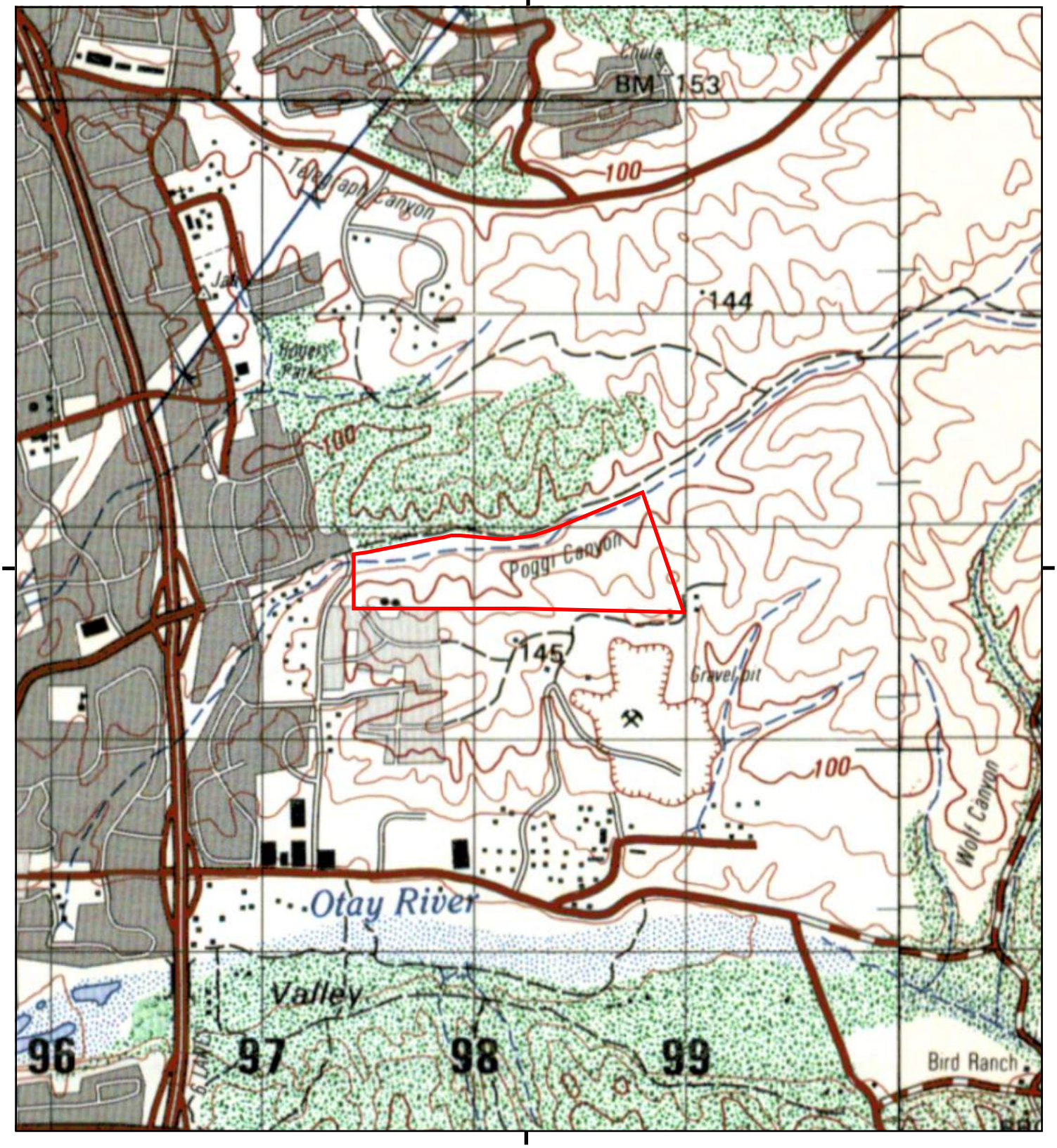
TP, Imperial Beach, 1996, 7.5-minute
NE, Jamul Mountains, 1994, 7.5-minute
SE, Otay Mesa, 1996, 7.5-minute
NW, National City, 1996, 7.5-minute

SITE NAME: Sunbow Chula Vista
ADDRESS: Olympic Parkway
Chula Vista, CA 91911
CLIENT: GeoSyntec Consultants

N

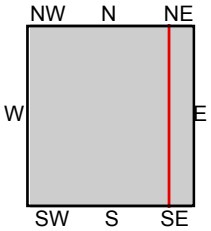
Historical Topo Map

1991



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



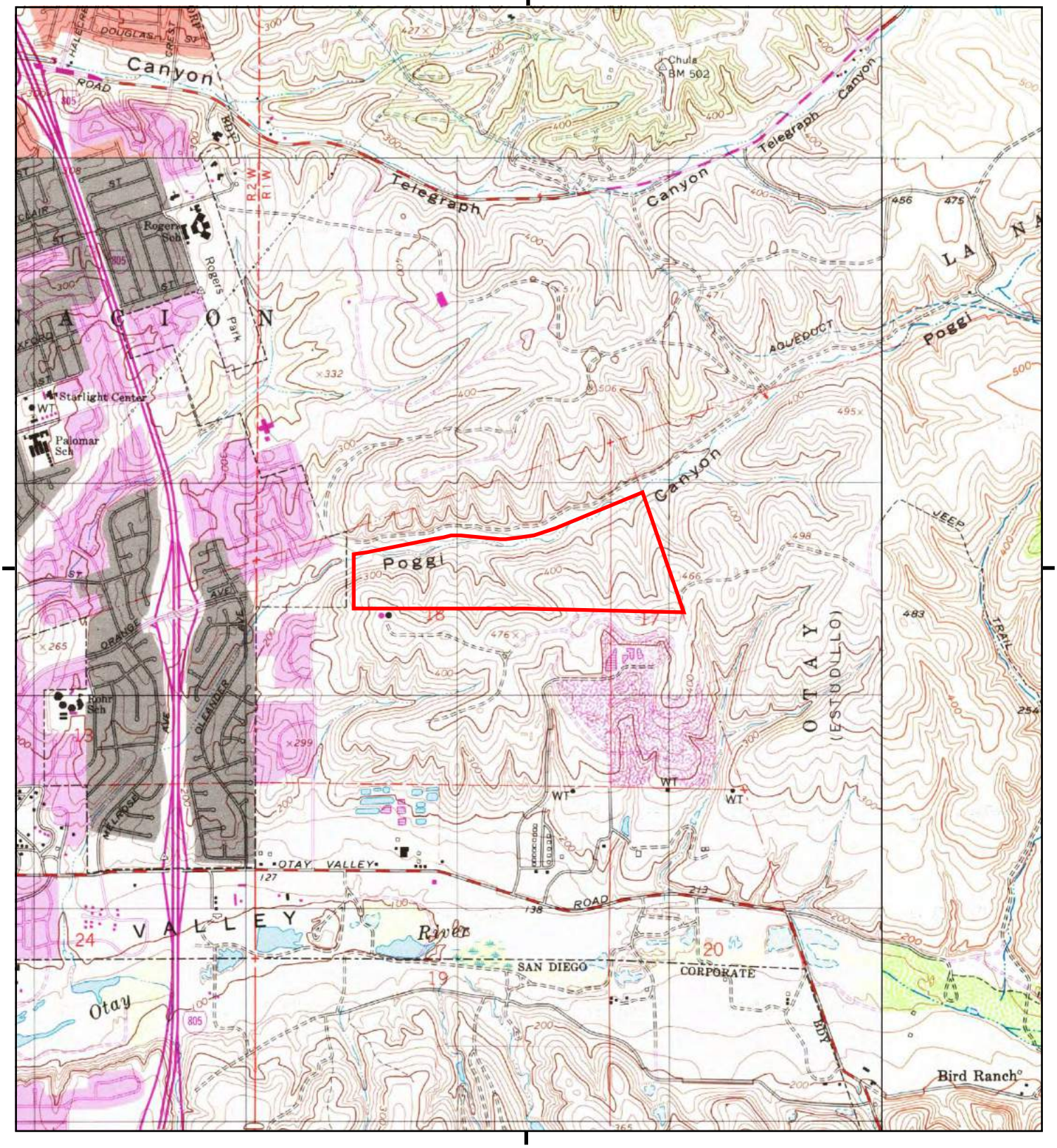
TP, SAN DIEGO, 1991, 15-minute
E, JAMUL, 1991, 15-minute

SITE NAME: Sunbow Chula Vista
ADDRESS: Olympic Parkway
Chula Vista, CA 91911
CLIENT: GeoSyntec Consultants

N

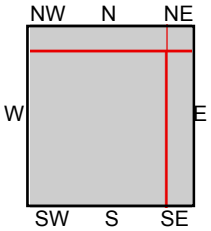
Historical Topo Map

1975



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



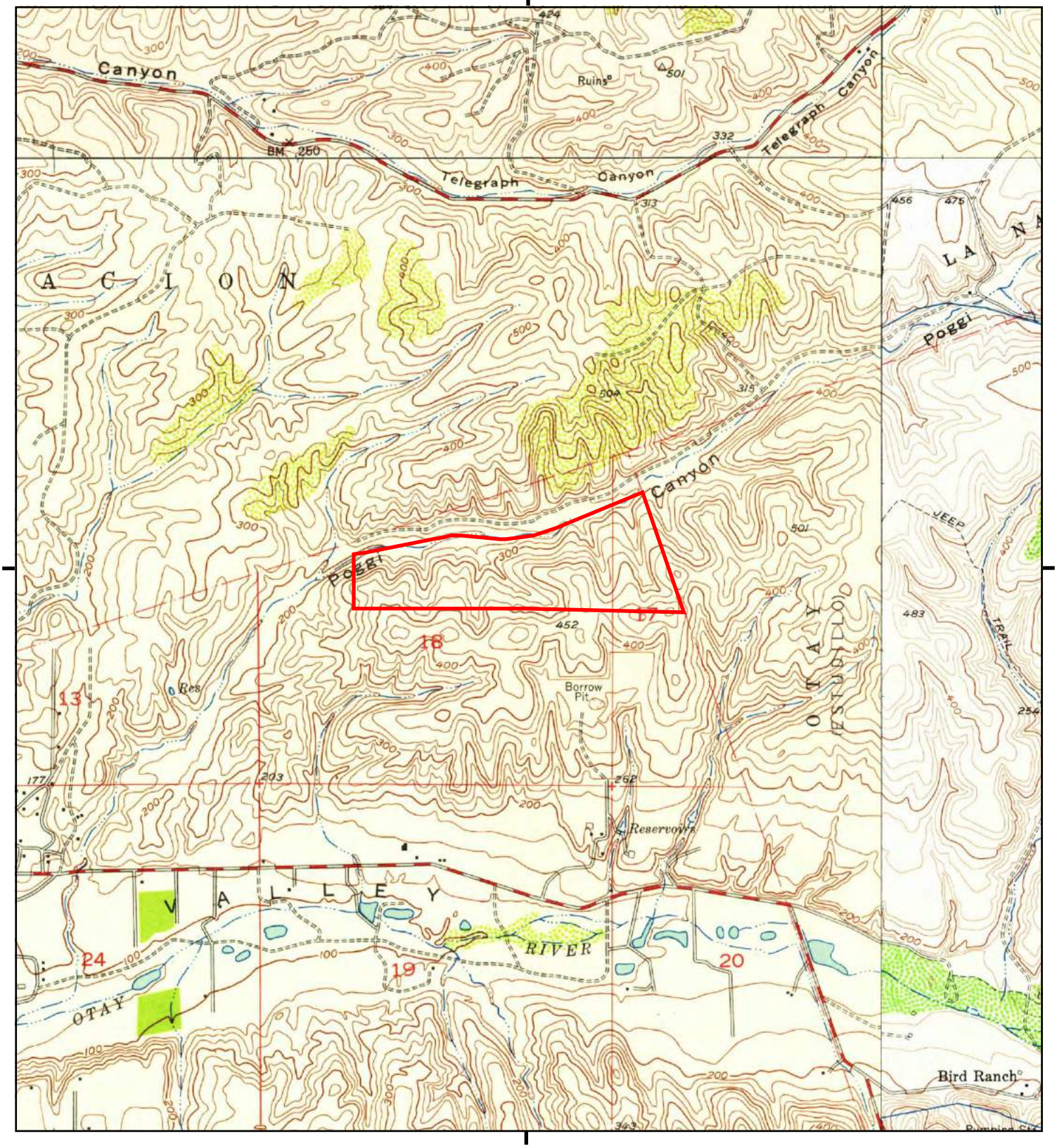
TP, Imperial Beach, 1975, 7.5-minute
NE, Jamul Mountains, 1975, 7.5-minute
SE, Otay Mesa, 1975, 7.5-minute
NW, National City, 1975, 7.5-minute

SITE NAME: Sunbow Chula Vista
ADDRESS: Olympic Parkway
Chula Vista, CA 91911
CLIENT: GeoSyntec Consultants

N

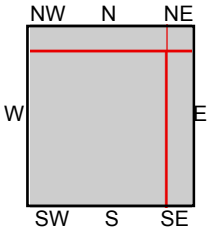
Historical Topo Map

1953, 1955



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



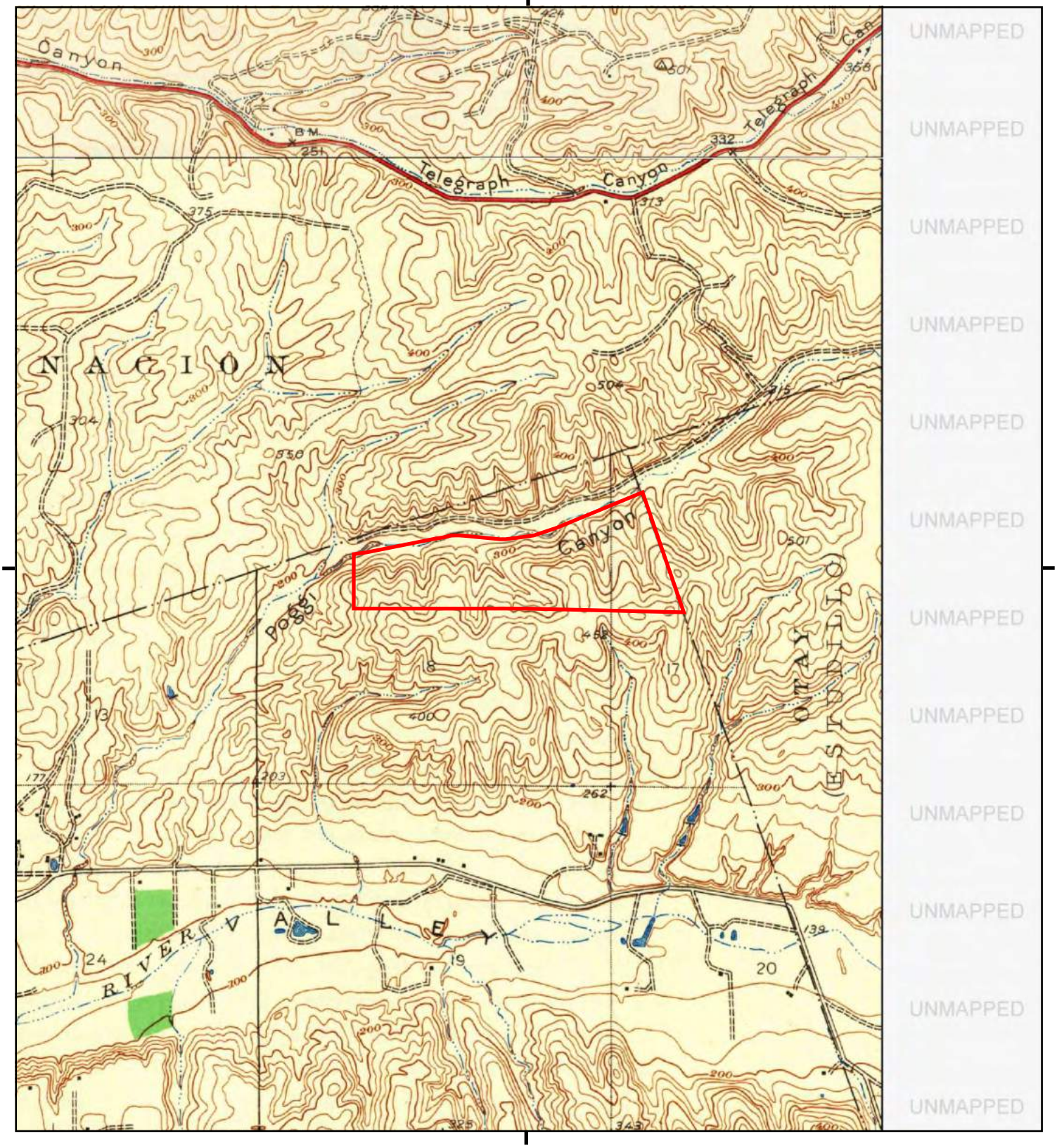
TP, San Ysidro, 1953, 7.5-minute
NE, Jamul Mountains, 1955, 7.5-minute
SE, Otay Mesa, 1955, 7.5-minute
NW, National City, 1953, 7.5-minute

SITE NAME: Sunbow Chula Vista
ADDRESS: Olympic Parkway
Chula Vista, CA 91911
CLIENT: GeoSyntec Consultants

N

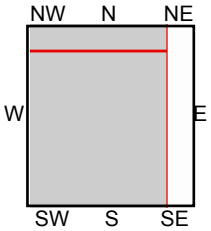
Historical Topo Map

1943, 1944



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



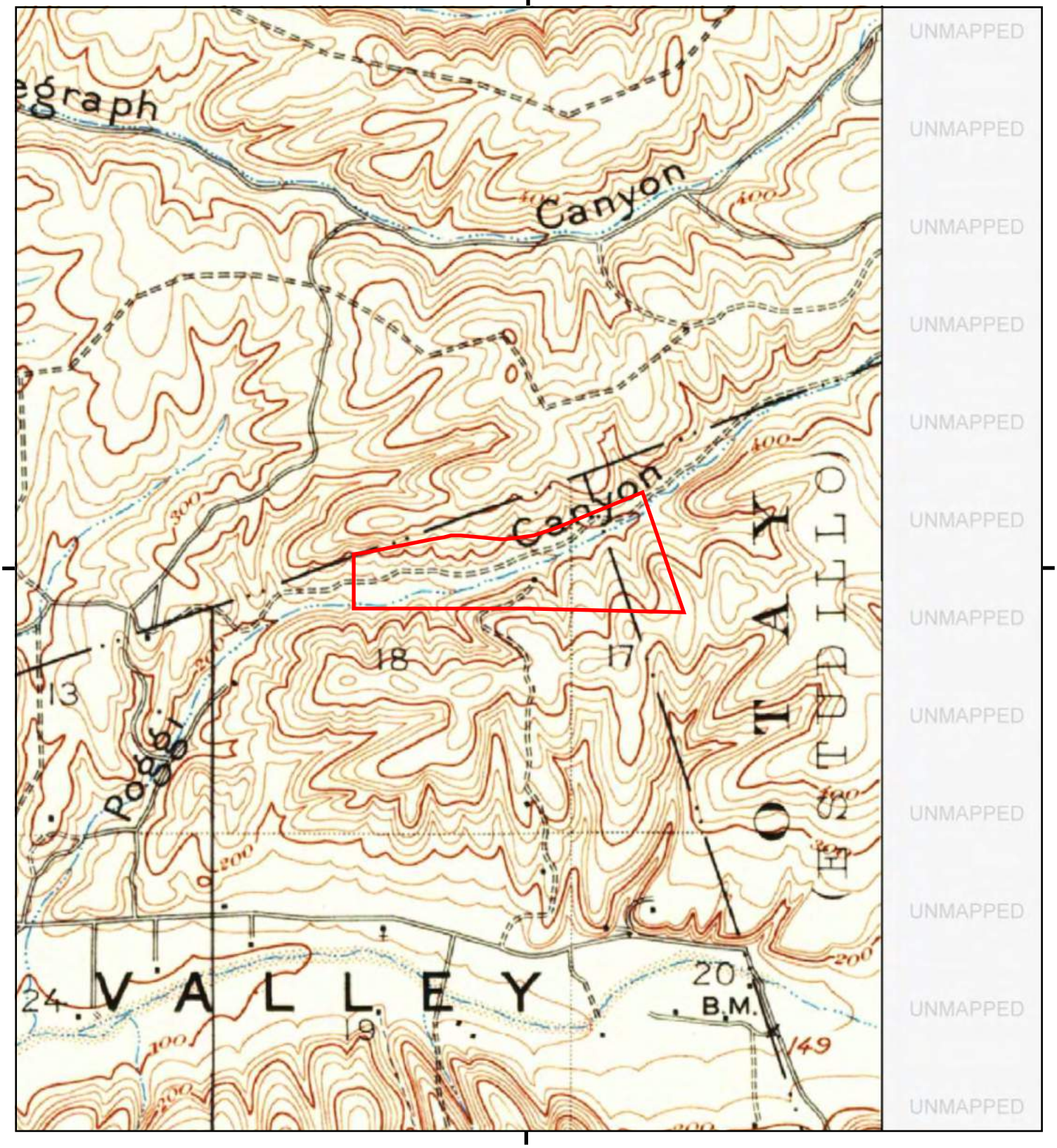
TP, San Ysidro, 1943, 7.5-minute
NW, National City, 1944, 7.5-minute

SITE NAME: Sunbow Chula Vista
ADDRESS: Olympic Parkway
Chula Vista, CA 91911
CLIENT: GeoSyntec Consultants

N

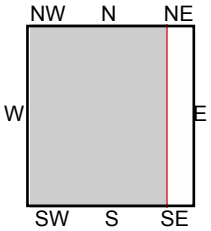
Historical Topo Map

1930



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



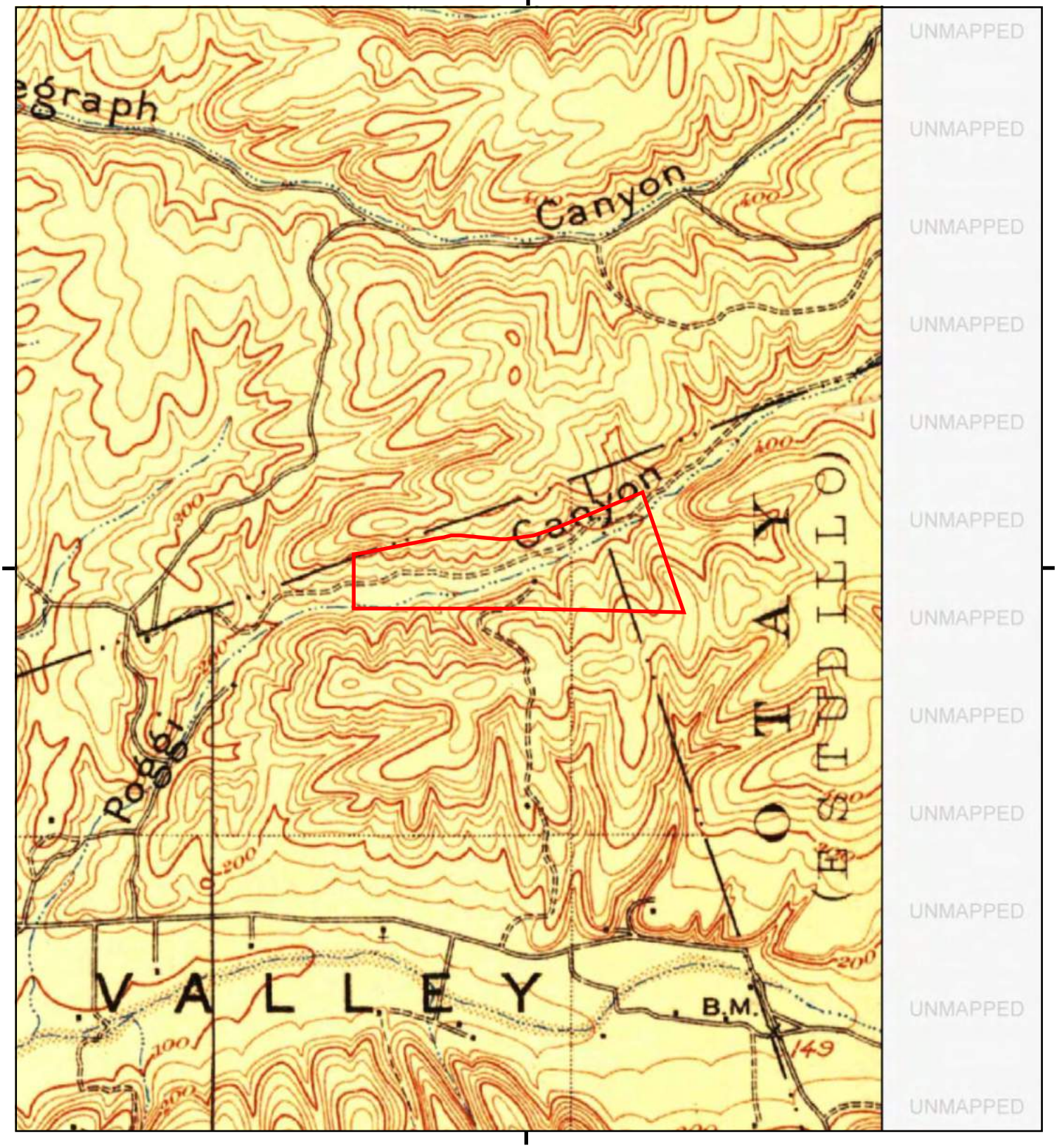
TP, San Diego, 1930, 15-minute

SITE NAME: Sunbow Chula Vista
ADDRESS: Olympic Parkway
Chula Vista, CA 91911
CLIENT: GeoSyntec Consultants

N

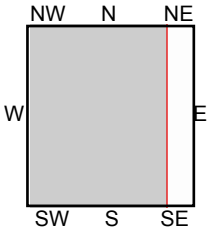
Historical Topo Map

1904



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, San Diego, 1904, 15-minute

SITE NAME: Sunbow Chula Vista
ADDRESS: Olympic Parkway
Chula Vista, CA 91911
CLIENT: GeoSyntec Consultants

N

APPENDIX F
EDR Sanborn Map Report

Sunbow Chula Vista

Olympic Parkway

Chula Vista, CA 91911

Inquiry Number: 5914677.3

December 23, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

12/23/19

Site Name:	Client Name:
Sunbow Chula Vista	GeoSyntec Consultants
Olympic Parkway	16644 West Bernardo Drive SUITE 301
Chula Vista, CA 91911	SAN DIEGO, CA 92127
EDR Inquiry # 5914677.3	Contact: Rosemary Propst

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by GeoSyntec Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 35DE-4144-9370

PO # NA

Project Lennar Sunbow Chula Vista

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 35DE-4144-9370

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

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APPENDIX G

EDR City Directory Abstract Report

Sunbow Chula Vista
Olympic Parkway
Chula Vista, CA 91911

Inquiry Number: 5914677.5
December 30, 2019

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

Data by infoUSA®

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
	☑	☑	Haines Criss-Cross Directory
1995	☐	☑	EDR Digital Archive
	☐	☑	Haines Criss-Cross Directory
1992	☐	☑	EDR Digital Archive
	☐	☑	Haines Criss-Cross Directory
1987	☐	☑	EDR Digital Archive
	☐	☑	Haines Criss-Cross Directory
1982	☐	☑	Haines Criss-Cross Directory
1977	☐	☑	Haines Criss-Cross Directory
1971	☐	☑	Haines Criss-Cross Directory

EXECUTIVE SUMMARY

Year	Target Street	Cross Street	Source

FINDINGS

TARGET PROPERTY STREET

Olympic Parkway
Chula Vista, CA 91911

Year	***CD Image***	***Source***	
OLYMPIC PKWY			
2014	pg A11	EDR Digital Archive	
2010	pg A22	EDR Digital Archive	
2005	pg A31	EDR Digital Archive	
2000	pg A36	EDR Digital Archive	
1995	-	Haines Criss-Cross Directory	Street not listed in Source
1992	-	Haines Criss-Cross Directory	Street not listed in Source
1987	-	Haines Criss-Cross Directory	Street not listed in Source
1982	-	Haines Criss-Cross Directory	Street not listed in Source
1977	-	Haines Criss-Cross Directory	Street not listed in Source
1971	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

Year	CD Image	Source	
BRANDYWINE AVE			
2014	pg. A2	EDR Digital Archive	
2010	pg. A13	EDR Digital Archive	
2005	pg. A24	EDR Digital Archive	
2000	pg. A32	EDR Digital Archive	
1995	pg. A37	EDR Digital Archive	
1992	pg. A41	EDR Digital Archive	
1987	pg. A44	Haines Criss-Cross Directory	
1982	pg. A47	Haines Criss-Cross Directory	
1977	pg. A50	Haines Criss-Cross Directory	
1971	-	Haines Criss-Cross Directory	Street not listed in Source
E PALOMAR ST			
2014	pg. A4	EDR Digital Archive	
2010	pg. A15	EDR Digital Archive	
2005	pg. A26	EDR Digital Archive	
2000	pg. A34	EDR Digital Archive	
1995	pg. A39	EDR Digital Archive	
1992	pg. A42	EDR Digital Archive	
1987	pg. A45	Haines Criss-Cross Directory	
1982	pg. A48	Haines Criss-Cross Directory	
1982	pg. A49	Haines Criss-Cross Directory	
1977	pg. A51	Haines Criss-Cross Directory	
1971	pg. A52	Haines Criss-Cross Directory	
MAXWELL RD			
2014	pg. A10	EDR Digital Archive	
2010	pg. A21	EDR Digital Archive	
2005	pg. A30	EDR Digital Archive	
2000	pg. A35	Haines Criss-Cross Directory	
1995	pg. A40	EDR Digital Archive	
1992	pg. A43	EDR Digital Archive	

FINDINGS

Year	***CD Image***	***Source***	
1987	pg. A46	EDR Digital Archive	
1982	-	Haines Criss-Cross Directory	Street not listed in Source
1977	-	Haines Criss-Cross Directory	Street not listed in Source
1971	-	Haines Criss-Cross Directory	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

BRANDYWINE AVE 2014

1487	OCCUPANT UNKNOWN,
1491	HOLLAND, EDWIN M
1501	ADAMS, LISA M
	DOLORES, ALMA R
	MCGINNIS, ROBERT M
	VICAS BATHTUB REFINISHERS
	VITELA, ALBERTO H
1505	ASHCRAFT, TERRY
	GUTIERREZ, DANIEL R
	MEJIA, YULY C
	MORENO, JOSEPH M
1655	BRANDYWINE LIQUOR & DELI
	CORZY CORNER
	EL PORTAL
	KALASHO ENTERPRISES LLC
	SUPERIOR CUTS BARBERSHOP
	YOUSIF, SULAIK T
1665	AKERLUNDH, GERARDO
	ALVARADO, JAIME I
	BELL, KENNETH S
	BIRT, TERRY
	BOLIN, RICHARD R
	CARO, MARIA
	CHAVARIN, CARLOS
	CORTEZ, JESUS A
	CRUZ, D
	FLORES, MARISELA
	GARCIA, DARWIN L
	GIMUTAO, FELICIANO M
	GRIMSLEY, EUGENI
	GUERRA, SARA P
	HERNANDEZ, GERONIMO
	IBARRA, VICTOR
	KHALILZADEH, HASSAN
	LOPEZ, SHAUNA
	MACASIEB, ANA A
	MARTINEZ, ROSA I
	MENDEZ, LUIS M
	NAVARRETE, JESUS
	PAULTRE, SUZANNE V
	RA SNYDER PROPERTIES
	RAMOS, ROSA
	RINGDAHL, ROBERT A
	ROBLES, TERESA V
	RODRIGUEZ, ENRIQUE
	ROMERO, JESUS
	ROSAS, MARIA
	SERRANO, MARGARITA
	SODERBERY, FLORA
	SOLIVEN, GINA

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

BRANDYWINE AVE 2014 (Cont'd)

1665	TORRES, NELSON
	VELASQUEZ, BRIGITTE
	ZAMORA, FEDERIC
1669	ADVERTISING CONSULTANTS INC
	AIR SUPPLY INC
	CHULA VISTA CITY OF
	HEATING & COOLING SUPPLY LLC
	MARLIN DISTRIBUTION INC
	MOVING COMPANY INC
	SERCO INC
1670	USA DISCOUNTERS
1675	CONFERENCE SERVICES INTL
	DRESSER-RAND COMPANY
	JUMP AROUND NOW
	SKYNET WIRELESS INC
	SUPERIOR POOLS PLUS
	TOSA CAPITAL LLC
1685	AVENIDA AGUA AZUL LLC
	HYSPAN PRECISION PRODUCTS INC
1690	LYON ELECTRIC CO
	LYON TECHNOLOGIES INC
	WEBCO HALE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E PALOMAR ST 2014

327	FOCUS HEALTH INC
	SANTIAGO DAVID CASTILLO
331	GREEN, SYLVESTER E
332	HUTH, DEBORAH C
333	SINOHUI, GABRIEL T
335	GREGORY, REX A
336	MCBRIDE, PATRICK W
337	RODRIGUEZ, ANGEL
339	CASTANEDA, HENRY A
340	HOFFMAN, JEAN G
341	TENCHAVEZ, AMADEO O
601	AJMAL, AHMAD
	ARDEM PROPERTY SOLUTIONS
	BEASLEY CLEANERS SAN MIGUEL
	BENNETT, CAMDEN C
	BERNAL, NORMA Y
	BRYSO CONSTRUCTION
	C & C CAPITAL REALESTATE INVST
	CFL GROUP INC
	CHULA VISTA VIRTUAL OFFICES
	CHURCH, BONNIE
	CLASSIC PAINTING
	CM ELECTRIC A/V AUTOMATIONS
	CURRENT ELECTRIC & LTG SVCS
	DCM INC
	FAST DEMOLITION INC
	FIRE ON ICE USA CORP
	FRONTIER FURNITURE
	GLOBAL REAL ESTATE
	GUTIERREZ, PATRICIA
	HONU PROPERTIES LLC
	IT911NOWCOM LLC
	JAIMES JOSE B
	JAMES JOHNSON
	LANCYCO INVESTMENTS LLC
	LANEY, STACEY A
	LAUBERT, DOLORES
	LEGENDARY PRO INC
	LIFES TREASURES & CONSIGMENT
	LOLITAS RESTAURANTS INC
	LUXE TRANSPORTATION CO LLC
	MAY GROUP INC
	MONTALVO, KARLA
	OPUS VIRTUAL OFFICES LLC
	PACIFIC STAR TRNSP INC
	PLASTIFLEX COMPANY INC
	POSTAL ANNEX INC
	PROJECT INERTIA LLC
	QUICKTIME PRPRTY INVESTORS LLC
	RADIANCE DAY SPA

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E PALOMAR ST 2014 (Cont'd)

601	RINKU MARWAHA INC
	ROMAN REPUBLIC CORPORATION
	SAGE INVESTMENT GROUP INC
	SHEELY, CLAUDIA
	SINGLETON, CHARLES D
	SUBWAY
	TALENT BUYER MEDIA INC
	TJ OYSTER BAR INC NO 3
	TLC FREE TRADE INC
	VARGAS, CLARA I
	VAZQUEZ, JESSICA
605	JPMORGAN CHASE BANK NAT ASSN
	STARBUCKS CORPORATION
645	CVS PHARMACY INC
659	RALPHS GROCERY COMPANY
	US BANK NATIONAL ASSOCIATION
687	MCDONALDS RESTAURANTS
695	CHEVRON CORPORATION
785	VETERANS PARK COMMUNITY CENTER
825	ACOSTA, BERTHIL O
	AGCARAO, ALANNA
	ANASTASI, VINCENT J
	ARTSY GIRL STUDIO
	ASPER, S
	ATWELL, ADELLA
	BAILEY, YVONNE M
	BARNETT, JEAN A
	BEASLEY, CYNTHIA
	BELTRAN, GABRIELA G
	BERRUECOS, PEDRO
	BLANCO, HECTOR
	BONILLA, ROBERTO
	BONSON, ALBERTO
	BRACY, DAVID C
	BRAXTON, IRIS
	BRIDGNELL, ALEX R
	BRINKE, JENNIFER L
	BROWN, RODESIA
	BRUCE, JESSICA J
	BRUNO, ANGELA C
	BUENDIA, PEDRO J
	BURGOS, FRANCISCO
	BYUN, WOO
	BYUNGCHOO, CHUNG
	CABAN, VICTOR
	CABATAY, MARC
	CABRAL, NORMA
	CADIENTE, LEAH
	CAGLE, MICHAEL L
	CALIFORNIA GAMING DISPLAYS

Target Street	Cross Street	Source
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E PALOMAR ST 2014 (Cont'd)

825 CAMACHO, ALEX
CAMPOS, MARIA D
CARNE, KATRINA M
CASIMIRO, CLAUDIA L
CASTILLO, BRAULIA S
CASTRO, MARIA F
CHAMBERS, DENNIS E
CHAVIS, C A
CLAWSON, ANTHONY
COLEMAN, PHYLICIA
COLLANTES, DARLYN
COPELAND, ALAN A
CORDT, SAMANTHA
CRENSHAW, TONY
CUNNINGHAM, MARIE B
DECASILLAS, OSCAR E
DEL, ROSARIO
DONALDSON, CYNTHIA D
DUPUIS, HAILEY
DURAN, FRANCINE R
EDWARDS, LAWRENCE D
ENCINAS, JUAN
EQUIHUA, SAMUEL
EQUITY RESIDENTIAL LLC
ESCOBEDO, SONORA
ESTRELLA, IVETTE
FERNANDEZ, ADRIEL
FLAKE, ASHLEY
FORAUER, HILLARY
FOREMAN, JOHN
FREEMAN, LETISHA D
FRISIUS, BRET D
FRYE, TYLER R
GACETA, ROSALIE C
GARCIA, NAJERA S
GASTON, ANTHONY
GATTI, JOHN T
GODINEZ, PAMELA
GOLDING, SHELLY S
GONZALES, RICARDO
GONZALEZ, BERENICE
GOODMAN, MELISSA
GUMULA, HALSTON
GURROLA, J
HEBERT, MARY A
HERMOSA, BENEDICTO S
HOLGUIN, MARLEN
HOLT, EVERETT S
HOWARD, CINDY
HSIAO, JOE S

E PALOMAR ST 2014 (Cont'd)

825 JAMES, MARY A
JOHNDRO, CHARLES
JORGENSEN, LISA
JUNTILLA, JENNY M
KIM, KYUNG H
KURTZ, ROBERT F
LABORIN, CESAR
LAMPKIN, WILLIAM L
LAZCANA, RAMIRO
LEE, SANG
LEON, SERGIO
LEWIS, SHERRARD
LIPETZKY, GREGORY
LIZARRAGA, AARON A
LONG, LAM
LOPEZ, IVAN D
MABREY, PETER S
MACEGAN, CORINNE P
MARIA GAMALINDA INC
MARSHALL, DONETTE
MARTINEZ DAVID
MARTINEZ, RAMON
MCDANIEL, ERIC
MCKAY, NELFREED
MCKEE, TRAVIS
MCLAURIN, SHAYLA N
MEDICAL ENTERPRISE
MENDOZA, MARCO A
MEZA, ALMA A
MILLER, MICHELLE M
MOLINA, RAUL A
MOORE, ROANNA J
MORA, SERGIO A
MOSS, WILLIAM M
NAVARRO, SARAI B
NECOECHEA, MONICA Y
NESBIT, MARK A
OCIOS LLC
OHLSEN, MONICA
OJEDA, DARLENE
OLIVA, MARCO A
OLIVO, NELLO J
OMANA, JOSE
OROPEZA, VERONICA
ORTEGA, AMBER
OSWALD, WILLIAM T
OUSLEY, CHARLES J
OWENS, EMILY A
PALOMO, YVONNE
PENA, ARIEL D

E PALOMAR ST 2014 (Cont'd)

825 PEREZ, JACKIE
PERRITT, JESSICA
PHILLIPS, ERICA
PLACENCIA, CESAR R
PLAISANCE, MARTIN
POLK, SAMUEL
POOL, AIMEE
PRIDE RICE DANCE COMPANY
PULECIO, EDWIN J
QUATTLEBAUM, JASMINE
R & R UNITED INC
RAIMONDI, LINDA D
RAMIREZ, MIGUEL
RAVENSCROFT, JAMES W
RICHARDSON, ALISA
ROBBINS, LILIANA G
ROBERSON, HENRY E
RODRIGUEZ, ERICK Y
ROSSI, ALEXANDER
RUIZ, MARIA
SALIS, LORENA
SALTERE, KIMBER
SANCHEZ, RENE
SARROL, RODERICK
SATO, NAOKI
SCHANKE, RICHARD S
SCHIAVONE, MICHAEL
SCRIBNER, RAYMOND A
SHUN, HUANG H
SKY POOLS & SPA
SMITH, ANNETTE L
SONG, SOEKKI
SORIANO, EILEEN L
STRAYER, FLOYD R
SUTTON, KYLE
SYKES, JONATHAN D
TAGLE
THOMPSON, SYLVIA A
TINDALL, ALPHONSO
TORRES, MICHAEL A
TOVAR, GABRIEL
TRANSITIONS FLIPSHADES INC
TREJO, RAUL
TRIANA, SUSAN S
TSIPOURIA, MELORY
URIAS, MONICA
URIBE, JOSE
VALDIVIA, AARON
VALENZUELA, GILBERTO
VALLE, ROCIO

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E PALOMAR ST 2014 (Cont'd)

825	VAZQUEZ, ANA J
	VELAZQUEZ, SONIA
	VIADO, QUIRINO S
	VIERRA, ISAAC
	VILLAGOMEZ, ADA
	WARD, A
	WATKINS, DONNIE L
	WILLIAMS, DORSEY
	WOOD, SUE E
	YU, GABRIEL
	ZUAZUA, JORGE
930	CHULA VISTA ELEM SCHOOL DST
	HEDENKAMP ELEMENTARY PTA

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAXWELL RD 2014

1600	COVANTA POWER PACIFIC INC
	OTAY LANDFILL GAS LLC
1700	OTAY LANDFILL INC
	REPUBLIC SERVICES INC
1800	AMERICAN TRANSIT CORP
	CHULA VISTA CITY OF
	CHULA VST CORP YARD PROJECT
	TRANSDEV SERVICES INC

Target Street	Cross Street	Source
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OLYMPIC PKWY 2014

2089	CHICK FIL A
	EASTLAKE TERRACES
2097	CARL KARCHER ENTERPRISES INC
2115	CHEVRON CORPORATION
2121	JPMORGAN CHASE BANK NAT ASSN
2127	2ND GENERATION SOLAR
	ALIANZA FINANCIAL LLC
	ALTERNATIVE TELECOMMUNICA
	ANDERSON BRUCE
	ASTRA LLC
	BALANCE ENTERPRISES LLC
	BLANKS, THOMAS
	BROWN, DIANNE
	CAVENDISH ENTERPRISES LLC
	CHAPMAN, JACK
	CRUZ, LUIS E
	ELAKE TERRACES LP
	EQUITY QUEST REALTY
	EZ-GO CREDIT REPAIR
	FLORES, JOSHUA
	GAMESTOP INC
	GAYNOR, ALLISON G
	GLOBAL MEDICAL TOURISM LLC
	GREENHUSE EFFECT APTHECARY INC
	GUTIERREZ BRAND GROUP LLC
	HAIRMASTERS
	HAMM, EVY
	HANEY CONSULTING
	IMPERANT TECHNOLOGIES INC
	IN HOUSE SOLUTIONS
	INDUSTRY MEDIA GROUP INC
	INE TV
	INSTA-DRY ORGANIC CARPET CLG
	INTERACTIVE UTOPIA
	INVESTMENT OPTIONS PROPERTIES
	JOHN PENE INVESTIGATIONS
	JORDANS RESTAURANT GROUP INC
	KARIAH ORGANIZATION
	KIO DISPLAYS INC
	KOSOOHAE TAEKWONDO INC
	KSC ENTERTAINMENT GROUP INC
	LGS INC
	MARTINEZ, ERICKA D
	MCCOY, BERNARD H
	MORADA CABINET CONSTRUCTION
	MORRISON-VELASCO, SHARON
	MUSE PUBLICATION
	NAVARRO, OSCAR
	NUYO FROZEN YOGURT
	OG FARMS LLC

Target Street	Cross Street	Source
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OLYMPIC PKWY 2014 (Cont'd)

2127	ONE SOURCE MARKETING EVENTS
	PIA BUSINESS SERVICES INC
	PIPKINS, JIM M
	POUNTAIN AMY L
	PRO HOME SOLUTIONS LLC
	QUEEN MODEL INTERNATIONAL
	RC AUDIO
	REGIS CORPORATION
	ROBERTS, DALTIA R
	ROMICO INC
	SAN DIEGO BAREFOOT MEMORIES
	SKOOLCRAFT MUSIC GROUP LLC
	SMILES OF EASTLAKE EASTLAKE
	SOCAL LOGISTICS AND DEV LLC
	STARBUCKS CORPORATION
	STARRY LANE BAKERY LLC
	SUPERHERO EVENTS LLC
	SURFCREST FINANCIAL
	TRIDIMENSION GROUP LLC
	UPS AUTHORIZED RETAILER
	VELASCO CONSULTING
	VICTORY ORGANIZATION INC
	WATER WAVE MOBILE DETAIL
2720	NEW HOPE COMMUNITY CHURCH
2800	AL JOYNER INTERNATIONAL LLC
	AMERICAN YOUTH SOCCER ORGNZTN
	HIGHTOWER, ERIK
	JUICED RIDERS INC
	ROADRUNNER ARCHERY CLUB
	SPORTOUTLIER FOUNDATION
	U S OLYMPIC TRAINING CTR CHULA
	UNITED STTES OLYMPIC COMMITTEE

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BRANDYWINE AVE 2010

1481	SAID, HERBERT L
1487	CARREON, DANIEL R
1491	HOLLAND, EDWIN M
1501	ADAMS, LISA M
	BETANCOURT, EDWARD R
	CORONA, JOSUE
	MCGINNIS, ROBERT M
	VICAS BATHTUB REFINISHERS
1505	ASHCRAFT, OLIVIA A
	GUTIERREZ, DANIEL R
	HERMANSON, MICHELLE L
	IBANEZ, JOSE J
	KITAURA, SHAWN D
1655	BRANDYWINE LIQUOR & DELI
	CORZY CORNER
	EL PORTAL
	HIRMEZ SIMON
	KALASHO ENTERPRISES LLC
	SUPERIOR CUTS BARBERSHOP
1665	1685 BRANDYWINE AVENUE LLC
	AGUILAR, COREY
	ALEJANDRINA, CAS T
	APOSTOL, MICHAEL V
	BAUER, MICHELLE A
	BOLIN, RICHARD R
	CASTANEDA, JOSE
	CORONA-PEREZ, ANGEL
	CRUZ, MARJORIE D
	ESPINOZA, ROBERT
	FERRARI, JENNIFER
	GARCIA, L
	GOMEZ, ANA M
	GONZALEZ, JOSE
	GONZALEZ, SARAH T
	GORSICH, DALE L
	GRIMSLEY, EUGENIA C
	GUERRERO, JOEL
	GUZMAN, PAULA A
	HARKINS, BRIAN
	HOUSTON, CORNELIUS D
	JMARIE PHOTOGRAPHY
	JUDD, KENNA L
	KARAMOTO, JOE N
	LAPPAY, MICHAEL
	LAZARUS, BRUCE T
	MARTINEZ, ROSA I
	MCNALLY, BRANDON
	NAPALAN, NAP
	NAVARRETE, JESUS
	PAYAN-SERRANO, ANTOLIN

Target Street	Cross Street	Source
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BRANDYWINE AVE 2010 (Cont'd)

1665	PEREZ, LOURDES
	RAMIREZ, AMERICO
	RINGDAHL, ROBERT A
	ROSAS, MARIA
	SANCHEZ, MARIA G
	SMITH, MARGARITA Y
	SODERBERG, SVEN
	SOUTHERN CAL EXPRESS INC
	UY, EDDIE D
	YANG, SUNHEE H
1669	ADVERTISING CONSULTANTS INC
	AIR SUPPLY INC
	BARAJAS LORENA
	BOOKER ENTERPRISES INC
	CHULA VISTA CITY OF
	COPLEY PRESS INC
	HEATING & COOLING SUPPLY LLC
	KARRANZA TRUCKING
	MARLIN DISTRIBUTION INC
	MOVING COMPANY INC
	WCMD
1670	FABI AJI
	OMV MEDICAL INC
	STATIC CONTROL COMPONENTS INC
	USA DISCOUNTERS
	VSE CORPORATION
1675	ANTEON CORP
	BAJA DISTRIBUTORS
	BAJA DISTRIBUTORS INC
	BEHNAM TRANSPORT
	DRESSER-RAND COMPANY
	WOOD CRAFT CO
1685	2926 GOUGH STREET LLC
	AVENIDA AGUA AZUL LLC
	HYSPAN PRECISION PRODUCTS INC
	THREE HEYES LLC
1690	C LLOYD JOHNSON COMPANY INC
	ENTELLIGANT SYSTEMS INC
	LYON TECHNOLOGIES INC

Target Street	Cross Street	Source
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E PALOMAR ST 2010

327	FOCUS HEALTH INC
	SANTIAGO DAVID CASTILLO
329	CHEN CINDY FENG
331	GREEN, SYLVESTER E
332	HUTH JACK E
	HUTH, JACK E
333	SINOHUI, LILLIAN E
335	GREGORY, ROXAN F
336	MCBRIDE, ROSE M
337	RODRIGUEZ, ANGEL
339	CASTANEDA, HENRY A
340	HOFFMAN, ROBERT S
341	TENCHAVEZ, AMADEO O
601	ALTA GLOBAL INC
	ANSLEY BAIL BONDS
	ARDEM PROPERTY SOLUTIONS
	BAROQUE DESIGNS
	BEASLEY CLEANERS SAN MIGUEL
	BELLA CHIC
	BLUEFROG AND COMPANY
	CHAMPIONSOUND
	CHASE COMMERCIAL SERVICES
	CLASSIC PAINTING
	COAST RECOVERY
	DA HOLT GEN ENGRG CONTRS INC
	DCM INC
	DIG THAT ENTERTAINMENT
	DWELLING PLACE
	FAST DEMOLITION INC
	FIRE ON ICE USA CORP
	FOXS PIZZA DEN
	HALSTEAD, RAHEEM
	HIGHTECH CARPET & TILE CLG
	HOOD, CHARLES A
	IBERIAN MORTGAGE CORPORATION
	IT 911 NOW COM
	JON J ENTERPRISES INC
	LAM, ENRIQUE
	LANCYCO INVESTMENTS LLC
	LOLITAS RESTAURANTS INC
	LUIS A GONZALEZ
	MABINI, JERMIAS
	MEDIA SKILLS WORKSHOP
	MELENDEZ ELECTRIC
	ORTEGA, OMAR
	PARKS PLYGRUND SANITATION SVCS
	PERRY FINANCIAL AND RE CO
	PLASTIFLEX COMPANY INC
	POSTAL ANNEX INC
	PRO CONSTRUCTION

E PALOMAR ST 2010 (Cont'd)

601	RINKU MARWAHA INC
	SAGE INVESTMENT GROUP INC
	SARADI INCORPORATED
	SEYMOUR RONALD
	SOUND SOURCE
	SUBWAY 29881 INC
	TALENT BUYER MEDIA INC
	TLC FREE TRADE INC
	TORRES, CHRISTOPHER A
	WITCHER MARK INSURANCE
	WITCHER, MARK G
	WUJICK, ANTHONY J
605	BLOCKBUSTER INC
	STARBUCKS CORPORATION
645	CVS PHARMACY INC
659	RALPHS GROCERY COMPANY
	US BANK NATIONAL ASSOCIATION
687	MCDONALDS RESTAURANTS
695	CHEVRON CORPORATION
785	CITY CHULA VISTA CMNTY CTRS
805	IGLESIA UNIVERSAL
825	ADI SYSTEMS
	AGUIRRE, LINO
	ALEJO, ELIZABETH
	ALINGIG, JOSEMILJOY
	ALVARADO, LUIS J
	ANDERSON, MIRANDA
	ANGERSTEIN, DAVID A
	BAKER, M
	BALES, SUSAN
	BARNETT, ALSTON D
	BARRIENTOS, RUBEN
	BARROSO, MARISELA D
	BASA, JEREMIAH J
	BASH, GREGORY L
	BEROMEN, GRACIELA I
	BIG CHROME RECORDS
	BILBREY, JONATHON P
	BOUTRY, ERICK
	BOWES, RONNIE
	BOWLING, KRISTINA
	BRINKE, JENNIFER
	BURKE, BRANDON
	CAIN, STACY
	CALDERON, SARAY L
	CALIFORNIA GAMING DISPLAYS
	CALLIES THOMAS D
	CASAS RODERICK
	CASAS, MARIA L
	CASTELLANOS, ROB

E PALOMAR ST 2010 (Cont'd)

825 CASTILLO, ERNESTO
CASTRO, JESUS
CEFALU, JOEL
COBARRUBIA, DENNIS A
COLADO, HERIVERTO G
CONVEY, ANGEL
CORDERO, NOHEMI
CRAFT NAOMI NATISHA
CROFOOT, MORGAN
CURL, ESTHERLITA E
DAGDAG, ESTEBAN E
DAUSS ADONIS DESIGNS & ENTRMT
DAVID, JASON
DAVIS, ANDREW
DECHAVEZ, GRETCHEN
DEGUZMAN, SERGIO B
DELOSSANTOS, ROBERT
DELROSARIO, MADELINE O
DEOCAMPO, CAROLYN A
DEPARTMENT OF VETERNS AFF
DIZON, WILFREDO
DOERING, JOYCE
DRAKE, BRANDON
DUFFY, MELISSA R
DURAN, FRANCINE R
EBENEZER, CHRISTY
EICHELBERGER, LINDSAY K
ELIAS, ARTHURO
EQUITY RESIDENTIAL LLC
ESAU, LARRY
EVANGELISTA, MELANIE
EXACT CREDIT
EXPRESS EQUIPMENT LEASING LLC
FACTORY IDEAS
FANDINIO, DANILO R
FARAJ, AZIZA N
FAROL, CAMILLE O
FLORES, SARA
FOSTER, SHANNON
FREEDOMMAX INC
FRIGILLANA, DAVID M
FUEL MAGAZINE LLC
GACETA, ALEJANDRO S
GANZ, ARACELY R
GARCIA, EVANGELINA S
GEORGE, ANNA
GHIOTTO, VERONICA N
GONZALES, ESTELL
GORMISE, MIRIAM B
HARMON, DARRELL L

E PALOMAR ST 2010 (Cont'd)

825 HARVEY, JASON
HETTEMA, T
HILLIARD, ROBERT S
HOOD, SUSAN M
IGNACIO, RUBEN R
JACKSON, KALONDA
JAE KUM SOOK
JAMERSON, CHARLES W
JAMES, WARREN
JAQUEZ, HUGO A
JOE LONG
JOHNSON, ROSS
KAMINSKI, ANDREW
KAWANO, MASAFUSA
KEITH, ELIZABETH E
KIM, YONG J
KIMURA, KAZUAKI
KING SALES
KLEIN, CATHERINE
KUROKAWA, AKIRA
LAMADRID, JOAQUIN B
LANGE, JAMES P
LASCANO, RAMIRO
LE PETITE SHOPPE
LEES, MATT
LEWIS, SHERRARD
LOPEZ, YULIANA
LUCHT, KIMBERLY
MADRID, PATRICIA
MALLERY, EDY
MANIPOL, ARNOLD P
MARIA GAMALINDA INC
MARTINEZ, MANUEL J
MARTINO, JAMES R
MAYA, SALOMON
MEDICAL ENTERPRISE
MENDOZA, RODOLFO
MIYASHITA, KAZUHIKO
MODULAR HOMES VERMONT
MOLINA, RAYMUNDO T
MONTERO, AQUIELLA
MONTGOMERY, DANIEL
MORIKAWA, SATOKO
NOCON, DANNY A
OBLANDER, TIM
OLIVO, AUSTIN J
OROSCO, CHRISTOPHER
PACHECO, SYLVIA E
PANTOJA, RAFAEL P
PATTERSON, MICHAEL

E PALOMAR ST 2010 (Cont'd)

825 PEPA, ROGELIO O
PEPPER, VERONICA L
PEREGRINA, ALMA
PETERSON, MARJORIE J
PHILLIPS, DOUGLAS D
PIANTEDOSI, ROBERT
PINTO, TOMMY L
R & R UNITED INC
RAFFEO G12 MINISTRIES
RAIMONDI, LINDA D
RAMONA LUCKMAN & ASSOCIATES
RAMOS, MARSHA
ROBINSON JOSEPH I JR
RODRIGUEZ, ELEAZAR Z
ROHS, ANDREW
ROTH, ANGELA
RUIZ, ANDREA
SALAZAR, RAFAEL
SANCHEZ, SOPHIA
SANDOVAL, BERNICE
SANTANA, LIZBETH S
SATCHER, SEPORA
SATO, YUJI
SAYADET, KATELYNN
SCHIEL, JONATHAN F
SCHUMANN, JONATHAN
SHEPPARD, TANISHA
SINGLETON, MARVIN A
SKY POOLS & SPA
SOBE, NATHAN
STRAYER, CHRISTINA
STREINER, NICOLE
TAGART, MARIANNE
TAGLE, JULIO
TANAOMI, PAYAM
TAPIA, PETER
TIBIA, LUCIANO L
TOWNSEND JERMAINE
TRANSITIONS FLIPSHADES INC
URIARTE, CHRISTIAN A
VALDEZ, FRANCISCO
VALENCIA, OSCAR J
VELARMINO, MICHAEL C
VELAZQUEZ, SONIA
VERMONT PINNACLE HOMES
VILLALVA, LUZ
WALLACE, RACHEL S
WALTON, CHRISTINA
WATSON, SAMIKA
WEADICK, DANIELLE N

Target Street	Cross Street	Source
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E PALOMAR ST 2010 (Cont'd)

825	WHEAT, JOSH
	WILLIAMS, JOSHUA
	WILLIS, BOBBY J
	WISE, RUSS
	WOOD, SUSAN E
	WORTHY, STACI
	WRIGHT, CONNIE
	WRITER, MICHAEL A
	YAHYAI, MAJID
	YOUNG, ROBERT
	ZEHEL, NIKKI
930	CHULA VISTA ELEM SCHOOL DST
	HEDENKAMP ELEMENTARY PTA

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAXWELL RD 2010

1600	COVANTA POWER PACIFIC INC
	PACIFIC RECOVERY CORPORATION
1700	REPUBLIC SERVICES INC
1800	AMERICAN TRANSIT CORP
	CHULA VISTA CITY OF
	CHULA VISTA PONY LEAGUE SOUTH
	CHULA VST CORP YARD PROJECT
	VEOLIA TRANSPORTATION SVCS INC
1805	RD ONE TOWING

Target Street	Cross Street	Source
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OLYMPIC PKWY 2010

2089	CHICK FIL A
2097	CARL KARCHER ENTERPRISES INC
2115	CHEVRON CORPORATION
2121	JPMORGAN CHASE BANK NAT ASSN
2127	4WARD LENDING INC
	A ADVANCED COMPANY INC
	A CALIFORNIA COMPANY
	ALTERNATIVE TELECOMMUNICA
	ARCH INC
	ARG LTIGATION SUPPORT RECOVERY
	ARYA CLEANERS & TUXEDO
	ASTRA LLC
	BALANCE ENTERPRISES LLC
	BUSY BEES CLEANING SERVICES
	EASTLAKE CAMP FURY VOLLEYBAL
	ELAKE TERRACES LP
	EUREKA ENERGY SOLUTIONS INC
	EUSEBIO ERIC J DDS
	EUSEBLO ERIC J DMD
	GAMESTOP INC
	GAYNOR, ALLISON G
	GUTIERREZ BRAND GROUP LLC
	HAIRMASTERS
	HAMM, EVY
	HEAMDI INC
	ICARUS CANOPIES INC
	IMPERANT TECHNOLOGIES INC
	IN HOUSE SOLUTIONS
	INK SUBSCRIPTIONS LLC
	INVESTMENT OPTIONS PROPERTIES
	JORDNY REI LTD
	KARIAH ORGANIZATION
	KIMZEE ART CREATIONS LLC
	MACIAS, RICARDO M
	MORADA CABINET CONSTRUCTION
	NETLINK INC
	NIXG SKYDIVING & ENTERTAINMENT
	NUYO FROZEN YOGURT
	OG FARMS LLC
	P&M HOLDINGS LLC
	PACIFIC SUMMIT BUILDERS INC
	PIA BUSINESS SERVICES INC
	PICK UP STIX
	POUNTAIN AMY L
	PREMIER TAX RESOLUTIONS INC
	PRESTIGE MKTG & PROMOTIONS
	REGIS CORPORATION
	ROCK SOLID INTERNATIONAL CORP
	ROMICO INC
	SKOOLCRAFT MUSIC GROUP LLC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

OLYMPIC PKWY 2010 (Cont'd)

2127	SMILES OF EAST LAKE
	STARBUCKS CORPORATION
	UPS STORE 4900
	VICTORY ORGANIZATION INC
	VIGA ENTERTAINMENT LLC
2720	NEW HOPE CMNTY CHURCH OF CHULA
2800	AMERICAN YOUTH SOCCER ORGNZTN
	GASCOUNTS
	GIVING ATHLETICS INC
	KIERRA FOSTER LLC
	TYSON VIK ARCO
	UNITED STTES OLYMPIC COMMITTEE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

BRANDYWINE AVE 2005

1481	SAID, HERBERT L
1487	CARREON, DANIEL R
1491	MAJ LLC
	PEREZ, VICTOR M
1501	ALARCON, YOLANDA
	MCGINNIS, ROBERT M
	REYES, ALBERT
1505	CECENA, ERNESTO
	IBANEZ, JOSE J
	MONARREZ, SILVANO E
1655	BRANDYWINE LIQUOR & DELI
	CORZY CORNER
	HIRMEZ SIMON
	LUNA, GUILLERMIN G
	MEXICO VIEJO MEXICAN FOOD
	SUPER NOVELTIES
1665	ALFARO, LUIS
	AMERINE, TIM
	BALA, WENDELL
	BAUER, MICHELLE A
	BENNICA SCREEN PRINTING
	BERNAL, HAYDEE
	BOLIN, RICHARD R
	CASPER, RICHARD J
	DEAN, ANTHONY D
	ESCOBEDO, MARGARET
	FERNANDEZ, LUISA M
	GONZALEZ, GABRIELA
	GRIMSLEY, EUGENIA C
	HANSCOM, ZAC
	HARDIN, DONAL A
	HERNANDEZ, PATRICIA
	HESTER, TIM J
	HOUSTON, CORNELIUS D
	IBARRA, STACY
	KARAMOTO, JOE N
	KINDERMAN, D
	KING, MARY
	LIMA, LUPE
	MIRAMAR, O
	MOODY, JESSE
	MUNOZ, JUAN A
	PALLASIGUE, J V
	PAXTON, EVANGELINE E
	RENE, B
	ROBSON, EDWARD
	ROJAS, CHANTELL
	SALAS, BERTHA S
	SAMPANG, MICHAEL T
	SANCHEZ, ALFONSO B

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

BRANDYWINE AVE 2005 (Cont'd)

1665	SODERBERG, SVEN
	VALLE, KARLO
	VEGA, JOSE A
	VILDEARANA, RUTH
	YANG, SUNHEE
	YASUTOMI, MARITESS B
1669	BARAJAS LORENA
	BELLS DELIVERY SERVICE INC
	DIRECT MAIL TO GO
	M KAIDI REALTY
	MOPAR ENTERPRISES
	MOVING BROKER
	PARVIN SALEHI
1670	KEYSTONE AUTOMOTIVE INDS INC
	VSE CORP
1675	ANTEON CORPORATION
	TYCO THERMAL CONTROLS LLC
	UNITED STATES CONTAINER CORP
1685	HYSPAN PRECISION PRODUCTS INC
1690	C LLOYD JOHNSON CO INC
	LYON TECHNOLOGIES INC
	ZOOMA ENTERPRISES INC

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E PALOMAR ST 2005

330	MILLS, CHARLES
331	OCCUPANT UNKNOWN,
332	HUTH, PHARIS A
333	SINOHUI, GABRIEL T
335	GREGORY, REX A
336	MCBRIDE, WILLIAM F
337	RIVERA, AGRIPINO L
339	CASTANEDA, HENRY A
340	PAULL, ROBERT S
341	MAGAT, SYLVIA U
601	COFFEE FAIR INC
	FAITH COVENANT COMMUNITY CHURC
	GONZALES, ROSA A
	HOOD, EDIT G
	LANEY, STACEY A
	LOLITAS RESTAURANTS INC
	MANLISIE, CATHERINE F
	MARTINEZ, JOSE M
	PJ FIBERGLASS & BATH DESIGN
	POSTAL ANNEX INC
	SEYMOUR RONALD
	SOTO JOSE
	SOTO, JOSE A
	SOUND SOURCE
	SPANISH BOOK CENTER INC
	SUBWAY 29881 INC
	TRITON CI & ASSOCIATES LLC
	VELASQUEZ RUTH
	WITCHER MARK INSURANCE
	WITCHER, MARK G
605	STARBUCKS CORPORATION
645	ALBERTSONS INC
659	DOWNEY SAVINGS AND LN ASSN FA
	RALPHS GROCERY COMPANY
669	CAPSTONE WHOLESALE
770	POELTL, JENNIFER I
825	ADWELL, AUBURN
	AFROZE, A
	ALLENDER, JAMES S
	ALMERA, ALEJANDRO R
	ALVARADO, FERNANDO
	ANDERSON, LEONARD
	BABAUTA, JOANNA S
	BARRAGAN, JAVIER P
	BELLOWS, DARYL
	BENSON, NANCY A
	BHOORASINGH, C S
	BLOOD, MELISSA
	BOWLEY, JENNIFER
	BROENE, THOMAS A

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E PALOMAR ST 2005 (Cont'd)

825 BROWER, MARY F
BRUCHEZ, ALICIA E
BUENO, Y
BURNS, ROXANNE
CALCATERRA, LYNN
CALIFORNIA GAMING DISPLAYS
CAMPBELL, LORAINE W
CAMPOS, SANTIAGO J
CHEUVRONT, BRETT C
COFFIN, SCOTT A
COKER, JOHN
COOPER, STEVEN K
CRAIG, ROBERT E
CROSBY, DIANA
DANIEL, WILLIAM
DAVENPORT, ERIC
DEATLEY, TROY A
DEJESUS, VICTOR M
DOOLITTLE, BETTY J
DORA, OTIS
EDWARDS, SHANE
EGUILUZ, JUANCARLOS
EICHER, STEPHEN A
ENOCH, ALLEN
EXPRESS EQUIPMENT LEASING LLC
FISHER, AMANDA
FOBBER, JENNIFER L
FONSECA, JOSE
FORBES, FRANKLIN
GAMBOA, GABRIEL
GARCIA, HELESIO J
GLOVER TERESA DESIGNS
GOLDING, MICAELA K
GOMEZ, CRISTIANNY
GONZALEZ, LETICIA
GOYENECHEA, MELIA
GRAY, RAYMOND
GREEN, GREGORY B
HALVORSEN, ERNEST A
HAMBRICK, MICHAEL D
HANSEN, ARNE
HANSEN, DEBORA E
HARRIS, WILLIE
HAWKINS, STEVE
HERNANDEZ, MAYRA R
HOOD, WILLIAM
HOP, JOHN R
HOSOYA, MASANORI
HUNT, MARSHALL R
HURTADO, JACKIE

E PALOMAR ST 2005 (Cont'd)

825 IMPALA PUBLICATIONS
IQBAL, RAHIL
IRWIG, CHRISTOPHER F
JAE KUM SOOK
JANUS, JASON
JOHNDRO, CHARLES
JOHNSON, BOBBY L
JOST, MICHAEL L
JUSAY, JONAS C
KAELIN, JAMES
KAHNG, CADMUS K
KANDAL, PAUL G
KANEKO, TOMOMI
KANG, GINA
KENNEY, DANNY
KEYSER, JENNIFER
KIM, KYUNG H
KING SALES
KORDYLAS, WADE J
LA PLAZA SAN DIEGO
LANE, MICHAEL S
LANEHART, DEBRA
LASKEY, STEPHEN M
LEGROS, LIZ A
LEWENDA, PETER
LIONGSON, NORMAN T
MACEDO, MARCELO
MANCINAS, CHRISTINA
MANRIQUE, JORGE E
MARTINO, JAMES
MCCURINE, RYAN A
MCCUTCHEN, ANTHONY E
MCHUGH, KENDRA
MISSIONS AT SUNBOW
MOGUEL, AIDA A
MOROOKA, KAZUMI
NECOECHEA, MONICA Y
NELSON, KIM
NICHOLS, KENNETH L
NICOLAS, JEFFIFER S
NISHIDA, ATSUKO
OBA, HIDEKI
OBANA, JAYE F
ONODERA, KAZUYUKI
PAGNI, BRENDON A
PAYAN, CIPRIANO A
PEACOCK, DAWN M
PEACOCK, THOMAS M
PIADADE, MICHAEL A
PREMDAS, AUSTIN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E PALOMAR ST 2005 (Cont'd)

825 QUINONES, MARIE A
R & R UNITED INC
RAMONA LUCKMAN & ASSOCIATES
RENAISSANCE GROUP INC
RICHTER, BILL
RIES, MARGARET M
ROBBINS, LILIANA
ROBINSON JOSEPH I JR
RODRIGUEZ, RAUL
ROGERS, CHRISTINA
RUIBAL, MITCH
SANDOVAL, CRISTINA
SENTER, JOSH C
SIDNEY, THOMAS J
SITES, MICHELLE L
SLADE, MARK
SMITH, GARNET M
SMITH, STEVEN B
SNYDER, ASHLEY C
STANGLE, JENNIFER A
TERPSTRA, BRADLEY A
THOMAS, MYRON T
TOROSSIAN, DAVID C
TORRES, KATIA
TRANSITIONS FLIPSHADES INC
TRIMBLE, MARY A
VALDEZ, EDITH
WEISS, THOMAS A
WHITE, ROSALEE
WHITEHEAD, JOHN H
WILLIAMS, TAMIACA
WILLIS, MAYNETTE L
WINKOWSKI, JEFFREY A
WONG, ROBERT H
WOOD, THOMAS K
WOODBURY, BRENT
YI, CHAE O
ZONANA, ABRAHAM
930 CHULA VSTA ELEMENTARY SCHL DST

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAXWELL RD 2005

1600	COVANTA POWER PACIFIC INC
1700	SOLUTIENT TECHNOLOGIES
1800	CHULA VISTA CITY OF
	CHULA VST CORP YARD PROJECT
	NATIONAL EXPRESS CORPORATION
1855	J & G TOWING
	VIDRIO TOWING

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

OLYMPIC PKWY 2005

2014	OTAY RIVER CONSTRUCTORS
2097	CARL KARCHER ENTERPRISES INC
2127	60847 HAIRMASTERS
	EUSEBIO ERIC J DDS
	GAME STOP
	JOSE EMMANUEL DELUNA DDS
	PIA BUSINESS SERVICES INC
	POUNTAIN AMY L
	ROMICO INC
	SKOOLCRAFT MUSIC GROUP LLC
	SMILES OF EAST LAKE
2800	MAGGIO, GINA T
	UNITED STTES OLYMPIC COMMITTEE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

BRANDYWINE AVE 2000

1481	PICHARDO, RAMIRO
1487	AMADOR, LUIS
1491	QUINTERO, MARK
1497	OCCUPANT UNKNOWN,
1501	OCCUPANT UNKNOWN,
1505	ASHCRAFT, OLIVIA A
	DELATORRE, NORMA
	MARTINEZ, SUZANNE
1655	ALFEROS, MARIA
	BRANDYWINE LIQUOR & DELI
	CORZY CORNER
	MEXICO VIEJO MEXICAN FOOD
	SUPER NOVELTIES
1665	ALFARO, CLAUDIA
	AMAND, PAULST
	BAIG, G J
	BANKS, DENNIS W
	BOLIN, RICHARD R
	BORRAYO, ANITA C
	BRANNAN, ANTHONY L
	BRIJANDEZ, JOSE R
	CASPER, RICHARD J
	CASTILLO, EPHRAIM F
	CRAVEN, BESSIE C
	DELGADO, ELISA L
	ESTEP, JOSEPH C
	FIGUEROA, MARIA
	GONZALEZ, G
	GREGORY, SARENA J
	GRIMSLEY, EUGENIA C
	HATCHETT, IRA H
	HAYWOOD, CATHY
	JAIME, G B
	KARAMOTO, JOE
	LEE, HOON H
	LOPEZ, ISABEL
	MEZA, REBECA J
	MOOERS, ANITA S
	NECOCHEA, ADRIAN E
	NICASIO, MARIA E
	NICSIO, MARIA E
	NOVILLA, ONELIA P
	OMEARA, IAN P
	OREGEL, A
	PAGUIO, ONELIA
	POLENO, ALLEN
	RAMIREZ, R
	RUIZ, JESUS M
	STEWARD, VINCENT L
	VILLALUZ, F L

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

BRANDYWINE AVE 2000 (Cont'd)

1665	VINIEGRA, L
	WILLIAMS, MARY L
1669	BARAJAS LORENA
	COAST LINE DE MEXICO
	COASTLINE INTERNATIONAL INC
	TYCO ELECTRONICS/RAYCHEM
1670	KEYSTONE AUTOMOTIVE INDS INC
	UNITED BUMPER
1675	INTIRION CORP
	MEXICAN FACILITY CORP
	P M C INC
	PARS INDUSTRIES INC
	UNITED STATES CONTAINER CORP
1685	HYSPAN PRECISION PRODUCTS
1690	JOHNSON COMPANY INC C LLOYD
	LYON ELECTRIC CO INC
	ZOOMA ENTERPRISES INC

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E PALOMAR ST 2000

331	CW ENTERPRISES
	OCCUPANT UNKNOWN,
332	HUTH, JACK
333	OCCUPANT UNKNOWN,
335	GREGORY, REX A
336	MCBRIDE, WILLIAM
	MCS MATS
337	NOWAKOWSKI, STEVEN
339	CASTANEDA, HENRY A
340	PAULL, ROBERT S
341	CARPIO, DONNIE
	MAGAT, SYLVIA
	TENCHAVEZ, LOURDES

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

MAXWELL RD 2000

MAXWELL RD 91911
CHULA VISTA

1700	★ OTAY LANDFILL	619-421-3773	+9
1751	★ OTAY LANDFILL BUY BACK CENTER	619-421-9494	4

★ 2 BUS 0 RES 1 NEW

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

OLYMPIC PKWY 2000

2800	BESTEN, SARA D
	KEFLEZIGHI, M R
	KLIKA, BRETT A
	PATTEN, ASHLEE B
	SCHLENKER, ALICE L
	UNITED STTES OLYMPIC CMMITTEE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

BRANDYWINE AVE 1995

1481	PICHARDO, RAMIRO
1487	KEALY, JAMES
1491	OCCUPANT UNKNOWNN
1497	DARE, RICHARD D
1501	ALARCON, YOLANDA
	FOLEY, DAN
	FRIEL, JANET
	MCGINNIS, ROBERT J
1505	ASHCRAFT, JOHNNY D
	COOGAN, DALTON A
	EWING, JOE L
	MITCHELL, PATRICK D
1655	CORZY CORNER
1665	BOJORQUEZ, DORA A
	CALDWELL, DENNIS
	COSBY, WOODY
	CUMMINGS, WES
	DICKINSON, MICHAEL J
	DUNCAN, C
	GONZALEZ, RUTH
	GRIMSLEY, EUGENIA C
	GUERRERO, ANTONIO
	GUERRERO, JESUS
	JIMENEZ, E J
	KARAMOTO, JOE
	LINHARDT, YVONNE M
	MILLETT, STEVE
	MIRANDA, RAY A
	MONTOY, PATTY
	PRICE, CRYSTAL
	SIMON, ANDY
	TOTTEN, LISA
	VILLARREAL, KIM
1669	DHONDT, JOHANN
	PIERINO FASHIONS INC
	RAMOS VINCENTE
	RAYCHEM CORPORATION
	VILLAVICENCIO ARNULFO
1670	DENNYS DIV 1 MAINT
	GRAINGER W W INC
	HARDWOOD INC CALIFORNIA
	NOBEL FLORAL INC
1675	LEDBETTER, ANNIE
	LEXICON SCHOOL OF LANGUAGES
	MEXICAN FACILITY CORP
	PARS INDUSTRIES INC
	TREND MARKETING CORP
	UNITED STATES CONTAINER CORP
1685	HYSPAN PRECISION PRODUCTS
1690	INTERTIME TRADING CO

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

BRANDYWINE AVE 1995 (Cont'd)

1690 SIERRA WHOLESALE INC

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E PALOMAR ST 1995

330	OCCUPANT UNKNOWNN
332	HUTH, JACK
336	MCBRIDE, WILLIAM
340	PAULL, ROBERT S

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAXWELL RD 1995

1600	PACIFIC ENERGY
1700	GREENFIELD ENVIRONMENTAL
1751	OTAY BUY BACK CENTER

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

BRANDYWINE AVE 1992

1481	PICHARDO, RAMIRO
1487	AMADOR, LUIS
1501	FOLEY, DAN
1505	ASHCRAFT, JOHNNY D
1655	BRANDYWINE LIQUOR & DELI
	CORZY CORNER
1665	ACS ENTERPRISES
	BLOK, RANDY
	BRADY, ROGER S
	CHLEBEK, C
	CURTIS, P
	GARCIA, J
	LINHARDT, YVONNE M
1669	J G AND SONS BROKERS
	PIERINO FASHIONS INC
	RAYCHEM CORPORATION
1670	DENNYS DIV 1 MAINT
	GRAINGER W W INC
	HARDWOOD INC CALIFORNIA
1675	MEXICAN FACILITY CORP
	TREND MARKETING CORP
	UNITED STATES CONTAINER CORP
1685	HYSPAN PRECISION PRODUCTS
1690	F B S HOLDINGS INC
	GENERAL TEXTILES

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E PALOMAR ST 1992

332 HUTH, JACK
336 MCBRIDE, WILLIAM

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAXWELL RD 1992

1600	PACIFIC ENERGY
1700	GREENFIELD ENVIRONMENTAL INC
1800	SAN DIEGO GAS & ELECTRIC CO

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

BRANDYWINE AVE 1987

BRANDYWINE AV 92011
CHULA VISTA

1481	PICHARDO RAMIRO	421-8231	
1487	AMADOR LUIS	421-6183	
1655	★BRANDYWINE LIQ&DELI	421-1970	5
	★CALVARY CHAPEL CHLA	421-7611	2
1665.....	BRANDYWINE APTS		
	BARTON LOEL H	421-0329	+7
	BISHOP JACK W	421-5706	+7
	BLANCHARD DAVID	421-3079	+7
	BLANCHARD JULI	421-3079	+7
	BLOCK ROBIN	421-9448	+7
	BLOCK TERRY	421-9448	+7
	★BRANDYWINE APTS	482-1094	+7
	CANCIO FRANCES	421-1629	+7
	CANCIO JORGE	421-1629	+7
	COHEN ISAAC	482-8524	+7
	CUEVA JOSE JR	482-0465	+7
	DEYOUNG W	421-8141	+7
	EDWARDS MICHAEL D	421-5442	+7
	EDWARDS PAMELA A	421-5442	+7
	GILLETTE SHARI	482-8773	+7
	GILLETTE WILLIAM	482-8773	+7
	HAMLETT NEILL A	482-8646	+7
	HAMLETT SANDRA P	482-8646	+7
	JACOBSON SERENA	421-8631	+7
	OTT MARK A	482-1623	+7
	PARRA E	421-1098	+7
	PARRELL BRIAN	421-1401	+7
	POWELL RIKI	421-5559	+7
	RUNYON RANDY	421-7982	+7
	SIDRANSKY A	421-5270	+7
	SMITH PATRICIA	482-0386	+7
	SOUTHERLAND JIM	421-2486	+7
	STIVERS WALTER J	421-1196	+7
	WEBSTER EDWARD	421-8798	+7
	WILKINS DEAN	482-0788	+7
1665.....			
1683	XXXX	00	
1685	★HYSPAN PRECSN PRDC	421-1355	3
★	4 BUS 32 RES	30 NEW	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

E PALOMAR ST 1987

301	★CHURCH OF CHRIST	422-8833	
305	XXXX	00	
307	NAKATA MITSUHARU	691-0720	3
311	XXXX	00	
315	XXXX	00	
319	GRIFFITH CINDY R	585-9263	5
320	DAWKINS R V	426-6852	
324	XXXX	00	
328	SATTER WARREN E	422-7971	8
332	HUTH JACK	425-1385	+7
	HUTH PHARIS	425-1385	+7
336	MCBRIDE ROSE	426-5511	
	MCBRIDE WILLIAM	426-5511	
340	STARR LYNN	425-8945	3
★	1 BUS 62 RES	7 NEW	

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAXWELL RD 1987

1700 B K K COPR

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

BRANDYWINE AVE 1982

BRANDYWINE AV 92011
CHULA VISTA

1481	PICHARDO RAMIRO	421-8231	7
1487	AMADOR LUIS	421-6183	7
1491	XXXX	00	
1655	CALVARY CHAPEL CHLA	421-7611	+2
A	SEVENELEVEN FOOD	421-1970	1
★	2 BUS 3 RES	1 NEW	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

E PALOMAR ST 1982

301	CHURCH OF CHRIST	422-8833
305	XXXX	00
307	XXXX	00
311	TACHIKI FRANK R	427-4462
315	DONATH C J	420-6014 6

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

E PALOMAR ST 1982

..EAST PALOMAR			92011 CONT..	
319	XXXX		00	
320	DAWKINS R V		426-6852	
324	XXXX		00	
328	SATTER WARREN E		422-7971	8
332	XXXX		00	
336	XXXX		00	
340	XXXX		00	
★	1 BUS	93 RES	6 NEW	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

BRANDYWINE AVE 1977

+BRANDYWINE AV 92011 CHL VST

1481 PICHARDO RAMIRO 421-8231+7
1487 AMADOR LUIS 421-6183+7
1491 ANDERSON M 421-6082+7
* 0 BUS 3 RES 3 NEW

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

E PALOMAR ST 1977

301	*CHURCH OF CHRIST	422-8833	
305	XXXX	00	
307	HAYNES LARRY G	427-6989	1
311	TACHIKI FRANK R	427-4462	1
315	DONATH C J	420-6014	6
319	GOMES PAUL	426-0089	5
320	DAWKINS R V	426-6852	1
324	YAMAMOTO KURCH	422-3802	1
332	XXXX	00	
336	XXXX	00	
340	CHAVOLLA CARLOS F	420-9644	+7
*	1 BUS 86 RES	10 NEW	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

E PALOMAR ST 1971

301*	CHURCH OF CHRIST	422-8833
305	XXXX	OO
307	HAYNES LARRY G	427-6989+1
311	TACHIKI FRANK R	427-4462+1
315	LOCICERO LOUIS	426-6709+1
319	HOOKLAND LEWIS D	422-1466+1
320	DAWKINS R V	426-6852+1
324	YAMAMOTO KURCH	422-3802+1
332	MORRISON CARL K	420-1215+1
336	MCBRIDE W F LCDR	426-5511+1

* 2 BUS 76 RES 23 NEW

APPENDIX H
Site Photographs

GEOSYNTEC CONSULTANTS
Photographic Record

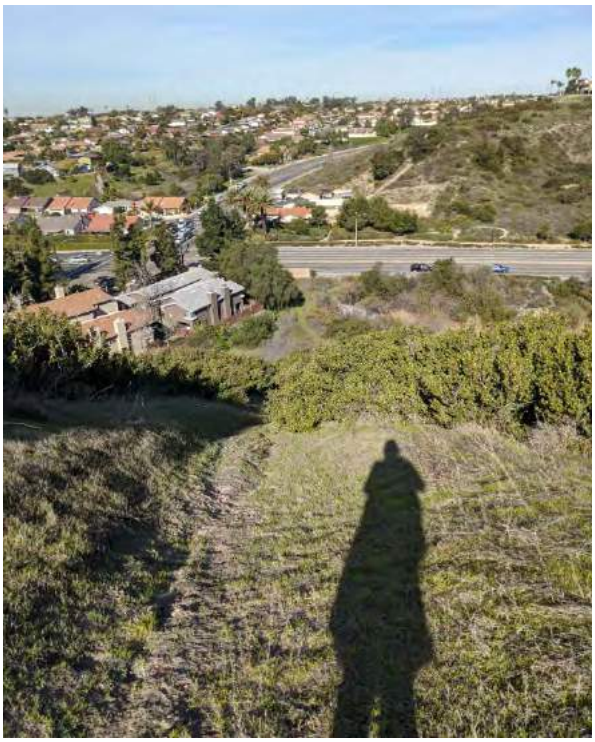
Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 1

Date: 1/3/2020

Direction: North

Comments: View of western boundary of Site from the southwestern corner of the Site. Below is Olympic Parkway, beyond which are residential subdivisions.



Photograph ID: 2

Date: 1/3/2020

Direction: Northwest

Comments: View of the adjoining property to the west, which slopes sharply down to Brandywine Avenue, beyond which are residential subdivisions. What appear to be homeless encampments were observed in the western portion of this adjoining property.

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 3

Date: 1/3/2020

Direction: Southwest

Comments: View of adjoining residences to the southwest of the property.

Photograph ID: 4

Date: 1/3/2020

Direction: South

Comments: View of one of the three water towers owned by the Otay Water District on the property adjoining the Site to the south.

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 5

Date: 1/3/2020

Direction: North

Comments: View from the southern boundary of the Site to the north. The Site is heavily vegetated in many interior portions of the Property.

Photograph ID: 6

Date: 1/3/2020

Direction: Southwest

Comments: View of the fence line delineating the Site from the adjoining property to the South.

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 7

Date: 1/3/2020

Direction: South

Comments: View of a monument that appears to be part of the reclaimed water line within the Site as indicated by the Owner (red, right). A location of one of the existing subsurface monitoring points is indicated by the "CP Test" marker.

Photograph ID: 8

Date: 1/3/2020

Direction: Southeast

Comments: View of the southeastern portion of the Site from the southern boundary. An unimproved dirt path runs along part of the southern boundary but is eroded in several parts. Beyond the fence line is the active Otay Class III landfill.

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 9

Date: 1/3/2020

Direction: West

Comments: Pictured is a monitoring point vault containing a monitoring well or soil gas probe. No monitoring point label was able to be located. The vault was not able to be accessed as it was locked with a rusted lock.

Photograph ID: 10

Date: 1/3/2020

Direction: Southwest

Comments: Pictured is a monitoring point vault containing a monitoring well or soil gas probe. No monitoring point label was able to be located. The vault was not able to be accessed as it was locked with a rusted lock.

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 11

Date: 1/3/2020

Direction: Northeast

Comments: View of the eastern boundary of the Site and the western boundary of the landfill property. An unimproved dirt path runs around the corner of the Site and continues north along this eastern boundary.

Photograph ID: 12

Date: 1/3/2020

Direction: Southeast

Comments: View of perimeter monitoring probe for the adjacent landfill. This probe appears to correspond with the location of GP-11 or GP-12 based on the Perimeter Probe Map (SCS Engineers, 2019)

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 13

Date: 1/3/2020

Direction: West

Comments: View west from the eastern boundary of the Site. The Site is heavily vegetated with grass approximately one to four feet tall, and small shrubs and trees.

Photograph ID: 14

Date: 1/3/2020

Direction: Northwest

Comments: View of the northern portion of the Site containing the permitted wetland. A concrete-lined drainage ditch runs for a portion of the northern perimeter south of the wetland and empties into the wetland (shown in lower left-hand corner of the photo). The road pictured is Olympic Parkway, and residential subdivisions farther north.

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 15

Date: 1/3/2020

Direction: West

Comments: Pictured are a locked vault and manhole related to the recycled water easement owned by the Otay Water District that traverses the Site.

Photograph ID: 16

Date: 1/3/2020

Direction: South

Comments: Pictured is a discarded mattress that was observed on the grass over the culvert in the center of the northern perimeter of the Site (access point from Olympic Parkway).

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 17

Date: 1/3/2020

Direction: West

Comments: Pictured is a vault and stake labeled "CP Test" related to an onsite monitoring feature.

Photograph ID: 18

Date: 1/3/2020

Direction: East

Comments: Pictured is the upstream side of one of the culverts present along the northern boundary of the Site. This waterway in the northern portion of the Site was heavily vegetated and water was flowing at the time of the Site visit.

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 19

Date: 1/3/2020

Direction: West

Comments: Pictured is an electrical transformer between the northeastern corner of the Site and the sidewalk that runs outside the northern perimeter of the Site. No spills or staining were observed around the transformer, and no PCB stickers were observed.

Photograph ID: 20

Date: 1/3/2020

Direction: West

Comments: Pictured is the label on the transformer described in Photo 19.

GEOSYNTEC CONSULTANTS Photographic Record	
Client: Lennar	**Project Number: SC1029**
Site Name: Sunbow - Olympic Parkway, Chula Vista, California	**Site Location: Chula Vista, CA**

Photograph ID: 21	
Date: 1/3/2020	
Direction: West	
Comments: View of homes adjoining the Site to the west along Brandywine Avenue.	