ENVIRONMENTAL ASSESSMENT

TRINIDAD RANCHERIA
STORMWATER IMPROVEMENT AND
INTERPRETIVE VISITOR CENTER PROJECT

MARCH 2017

LEAD AGENCY:
Bureau of Indian Affairs
2800 Cottage Way
Sacramento, CA 95825
(916) 978-6000
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SECTION 1.0
INTRODUCTION

1.1 INTRODUCTION

The U.S. Bureau of Indian Affairs (BIA) is the federal agency that is charged with reviewing and approving tribal applications pursuant to 25 C.F.R. Part 151 to take land into federal trust status. This Environmental Assessment (EA) has been prepared for the BIA to support the application of the Cher-Ae Heights Indian Community of the Trinidad Rancheria (Tribe) for land to be placed into federal trust (Proposed Action) in Humboldt County, California. This land, also referred to as the Tribe’s Harbor Properties, consists of nine parcels and three non-parceled areas, in part and whole, totaling approximately nine acres adjacent to Trinidad Bay. The land is currently owned by the Tribe in fee simple status. This land is intended to be used for an interpretive visitor center (visitor center), open space, and operation of currently existing facilities (Proposed Project). Currently existing facilities consist of the Seascape Restaurant, Seascape vacation rental house, Trinidad pier, a vessel haul-out hoist, surface parking, and several outbuildings. The BIA will use this EA to determine if the Proposed Action would result in adverse effects to the environment.

This document has been prepared in accordance with the requirements set out in the National Environmental Policy Act (NEPA) of 1969 (42 United States Code [USC] §4321 et seq.), the Council on Environmental Quality (CEQ) Guidelines for Implementing NEPA (40 C.F.R. Parts 1500-1508), and the BIA’s NEPA Guidebook (59 Indian Affairs Manual [IAM] 3-H). Section 2.0 of this EA provides a detailed description of the Project Alternatives. Section 3.0 provides a description of the existing environmental conditions on and in the vicinity of the project site. Section 4.0 provides an analysis of the potential environmental consequences associated with the Project Alternatives. A discussion of impact avoidance and mitigation measures is provided in Section 5.0. Consistent with the requirements of NEPA, the BIA will review and analyze the environmental consequences associated with the Proposed Action and Project Alternatives, and either determine that a Finding of No Significant Impact (FONSI) is appropriate, request additional analysis, or request that an Environmental Impact Statement (EIS) be prepared.

1.2 BACKGROUND

The Cher-Ae Heights Indian Community of the Trinidad Rancheria is a federally-recognized Indian Tribe with ancestral ties to the Yurok, Wiyot, Tolowa, Chetco, Karuk, and Hupa peoples. The Tribe is located within the ancestral territories of the Yurok, with core land holdings located on a coastal bluff east of Highway 101, just south of the town of Trinidad. Trinidad is located approximately 25 miles north of the...
City of Eureka. Under a 1906 Congressional act authorizing the purchase of land for “homeless Indians,” 60 acres were purchased in 1908 on Trinidad Bay for the original members of the Tribe. Federal recognition was subsequently granted by the Department of the Interior in 1917, Articles of Association were enacted by 1961, and a new Tribal Constitution was passed in 2008. The Tribe currently has approximately 228 members. The governing body of the Tribe is ultimately the Community Council, which consists of enrolled members who are eligible to vote. Eligible voters are tribal members at least 18 years of age who satisfy a number of annual requirements to maintain voting privileges. The Community Council meets monthly as a forum opportunity to discuss aspects of Tribal business and services. The Tribal Council is elected from those members comprising the Community Council. The duty of the Tribal Council is to govern all the people, resources, land, and water reserved to the Tribe, in accordance with the Tribe’s Constitution, all laws adopted by the Tribal Council, and any limitations lawfully imposed by the Tribal Council and/or the United States through statute or Constitution. The Tribal Council Officers’ duties include a wide range of responsibilities including attending all meetings, serving as liaisons to advisory committees, and most importantly, upholding the Tribal Constitution. Specific responsibilities, duties, expectations, and guidelines are thoroughly outlined in the Trinidad Rancheria’s Tribal Constitution. The Tribal Council consists of a Chairperson, Vice-Chairperson, Secretary/Treasurer, and two additional Council members.

The Tribe’s culture, including but not limited to traditional and customary fishing and gathering, is inextricably tied to the land and marine resources found within the traditional homeland, which is defined as a 20-mile area of interest and concern surrounding the Tribe’s lands. The Tribe has made a significant investment to revitalize the local economy and preserve the Tribe’s cultural heritage, and has developed a model that advances economic development and stewardship. In January 2000, Trinidad Rancheria purchased the Trinidad Pier, harbor facilities, and the Seascape Restaurant, including the parking along Bay Street. The Trinidad Pier was built between 1945 and 1946 to serve commercial and recreational users. A cannery at the end of the pier was swept away by a storm in 1957 and never replaced. Due to the deterioration of the original wooden supports, the Tribe, with funding in part by the California State Water Resources Control Board (SWRCB), the California Coastal Conservancy (CCC), the Environmental Protection Agency (EPA) Brownfield Grant, the Federal Highway Administration (FHWA), and the BIA, completed a reconstruction of the pier in 2013. The deteriorated creosote-treated wood pilings and the wood decking were replaced by polymer-coated steel pilings and pre-cast concrete decking. The Trinidad Pier is currently the northernmost oceanfront pier in California and serves a fleet of commercial winter crab fishing vessels and year-round water angling for salmon and near shore fish species. The Trinidad Rancheria currently operates the pier, and upland improvements including a boat launch ramp and the Seascape Restaurant. Since taking over the operations of the Trinidad Pier and upland improvements in 2000, the Tribe has incurred losses of over $1.3 million.
1.3 LOCATION AND SETTING

The trust acquisition parcels addressed in this EA are located west of Highway 101 in Humboldt County, approximately 18 miles north of the City of Eureka and within the City of Trinidad (project site). The project site is located in Section 26 of the ‘Trinidad, CA’ U.S. Geological Survey (USGS) quadrangle within Township 8 North and Range 1 West, and unsectioned areas of Trinidad Bay. Figures 1-1 and 1-2 show the regional location and vicinity of the project site. Figure 1-3 shows an aerial photograph of the project site. The project site includes nine parcels, totaling approximately six and a half acres, which are held partially or wholly in fee by the Tribe. These parcels are identified by Assessor Parcel Numbers (APNs) 042-07-101, 042-07-102, 042-07-105, 042-07-108, 042-07-112, 042-07-113, 042-07-114, 042-09-108, and 042-09-110. The project site also includes approximately two and a half acres that do not have APNs for a total of nine acres of lands for the requested trust transfer. Although these parcels are not contiguous with the current Rancheria, they are within approximately 0.5 miles of the Tribe’s Reservation.

Regional access is provided by Highway 101, which travels in a general north-south direction and is located approximately 0.5 miles east of the site. Local access to the project site is provided by Lighthouse Road and Bay Street. Lighthouse Road is a two-lane road that runs adjacent to the northwestern half of the project site. Bay Street, which transitions from Lighthouse Road, runs northwest to southeast though the western half of the project site. Access to Lighthouse Road from Highway 101 is provided via Main Street, Trinity Street, and Edwards Street. Edwards Street parallels the northern border of the project site.

The project site is composed of a mosaic of ruderal and developed habitat, coastal dune grass habitat, beach, and two vegetated rock heads which project southwards into Trinidad Bay. The topography of the site consists of coastal beachfront and bluffs with elevations of 0 to 55 feet above mean sea level (amsl). Surrounding land uses include private residences, surface parking, Humboldt State University’s Marine Laboratory, Trinidad State Beach, and undeveloped parcels. The current Rancheria, approximately 0.5 miles east and opposite the bay from the project site, includes Tribal government center, Tribal housing, and a casino and associated facilities.

1.4 PURPOSE AND NEED FOR THE PROPOSED ACTION

The Tribe’s purpose for taking the approximately nine acres of land into trust is to:

- Facilitate Tribal self-governance and self-determination by allowing the Tribal Government to exercise Tribal sovereign authority over the land;
- Protect and enhance the economic well-being of Tribal resources further establishing economic self-sufficiency;
- Further the Tribe’s goal to restore its original land base;
- Further the Tribe’s goal to preserve the surrounding environment and cultural resources for future generations and the entire community;
- Reduce the current stormwater runoff into Trinidad Bay from Harbor Properties improving the quality of the Trinidad Bay;
Figure 1-1
Regional Location
Figure 1-2
Site and Vicinity
Figure 1-3
Aerial Photograph

LEGEND

- Property Boundary 9.38 ac

PARCELS:
1. APN 04207101, 2.02ac
2. APN 04207102, 0.50ac
3. APN 04207105, 0.01ac
4. APN 04207108, 2.81ac
5. APN 04207112, 0.40ac
6. APN 04207113, 0.80ac
7. APN 04207114, 0.46ac
8. APN 04209108, 0.22ac
9. APN 04209110, 0.38ac
No APN, 2.85ac

SOURCE: Humboldt County Parcel GIS Data, 2013; DigitalGlobe aerial photograph, 6/6/2013; AES, 2/25/2016
1.0 Introduction

- Highlight the cultural and economic background and importance of the Trinidad Harbor to the surrounding region; and
- Form a Trinidad Harbor District which would include all of the Tribe’s current harbor properties.

The Tribe’s culture, including but not limited to traditional and customary fishing and gathering, is inextricably tied to the land and marine resources found within traditional homeland, which we define as a 20 mile area of interest and concern around the Tribe’s lands. The Tribe has made a significant investment to revitalize the local economy and preserve the Tribe’s cultural heritage, and we have developed a model that advances economic development and stewardship as complementary goals. Land acquisition and transfer to trust is now, and has historically been, a top priority for the Tribe, which owns less than eighty percent of the land originally purchased under the 1906 Congressional act. The Trinidad Pier and development of harbor businesses represent the best parcels of land for economic development for the Rancheria.

Trinidad Harbor is designated by the California Coastal Commission as a Critical Coastal Area and by the State Water Board as an Area of Special Biological Significant (ASBS). In 2005, the Rancheria received a cease and desist order (CDO) from the SWRCB for prohibited discharges from the Trinidad harbor and pier facilities to the Trinidad Head ASBS. The list of prohibited discharges in the CDO included the freshwater hose on the pier, the fish cleaning station, runoff from the pier itself, boat cleaning activities in and around the boat launch, and runoff from the harbor parking lot facility. Since 2005, the Rancheria has completed significant modifications at the Trinidad harbor and pier facilities to eliminate the prohibited discharges as set forth in the CDO. Major site improvements that have been undertaken include removal of the fish cleaning station and freshwater hose at the pier, construction of a new wastewater treatment system for the Seascape Restaurant and adjacent vacation rental, construction of new public restrooms, and reconstruction of the pier including installation of a stormwater capture and treatment system for runoff from the pier. These modifications resulted in elimination of all of the discharges of concern with the exception of stormwater runoff from the parking lot. The Rancheria is continuing to implement facility improvement efforts to reduce nonpoint sources of discharge further, with the goal of eliminating all nonpoint-source discharges from the Trinidad harbor and pier facilities. Public parking areas associated with the Trinidad harbor and pier facilities include the main parking lot and boat launch area. These parking areas are used by beachgoers, boaters, and patrons of the Seascape Restaurant, tackle shop, and pier. A significant portion of the traffic at the main parking lot is from boaters with trailers using the launching facilities or boaters without trailers using the mooring facilities. The main parking area contributes stormwater runoff as a nonpoint-source to the adjacent beach area referred to as Launcher Beach. The parking lot is often used as a staging area for boat and trailer repairs, potentially contributing repair-related pollutants to the harbor. This parking lot has been identified by the SWRCB as a nonpoint source area that contributes discharges to the Trinidad ASBS, and this area falls under the CDO issued in 2005.

As a governmental entity, the Tribe has a responsibility to meet the economic, social, cultural and environmental needs and concerns of its people. The primary task of the Tribe is to increase the standard of
living and quality of life for Tribal members for the Cher-ae Heights Indian Community of the Trinidad Rancheria; and to provide employment opportunities, education and job training. Placing this land into trust will allow the tribe to develop a stronger economic foundation, employing more tribal members, and developing additional amenities to enhance the overall operation. It will allow the land to fall under the Tribe’s authority, critical for the exercise of Tribal self-governance and self-determination, and is consistent with the Bureau’s trust responsibility to Indian Tribes and the federal policies supporting Indian self-determination and self-sufficiency.

1.5 OVERVIEW OF THE ENVIRONMENTAL REVIEW PROCESS

This EA is intended to satisfy the environmental review process of 59 IAM 3-H, 40 Code of Federal Regulations (CFR) § 1501.3, and 40 CFR § 1508.9. The EA has been released for a 30-day comment period. Comments will be considered by the BIA, and either a FONSI will be prepared, or additional environmental analysis will be conducted. After the NEPA process is complete, the BIA may issue a determination on the Tribe’s fee-to-trust application.

1.6 ENVIRONMENTAL ISSUES ADDRESSED

In accordance with NEPA and because the Proposed Action is located within a coastal zone, this EA evaluates the following environmental issue areas outlined within the BIA’s NEPA Guidebook:

- Land Resources;
- Water Resources;
- Air Quality and Greenhouse Gas;
- Biological Resources;
- Cultural Resources;
- Socioeconomic Conditions / Environmental Justice;
- Transportation and Circulation;
- Land Use;
- Agriculture;
- Public Services;
- Noise;
- Hazardous Materials; and
- Visual Resources.

1.7 REGULATORY REQUIREMENTS AND APPROVALS

The following direct and indirect federal approvals and actions may occur as a result of the Proposed Action:
1.0 Introduction

- Transfer of the approximately nine-acre site into federal trust status for the Tribe by the Secretary of the Interior.
- Submission of inventory information to the Environmental Protection Agency (EPA) for the Class V stormwater wells under the Safe Drinking Water Act Underground Injection Control Program.
- Application for a National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with construction activity.
- Consultation with the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) under Section 7 of the Federal Endangered Species Act (ESA), if endangered species may be impacted by the Proposed Action.
- Consultation with the State Historic Preservation Office under Section 106 of the National Historic Preservation Act (NHPA).
- Request for a California Coastal Commission Federal Consistency Determination.
SECTION 2.0
PROPOSED ACTION AND ALTERNATIVES

The Project Alternatives are described in this section. This section also summarizes the protective measures and Best Management Practices (BMPs) incorporated into each alternative to reduce potential adverse impacts to environmental resources.

2.1 SELECTION OF ALTERNATIVES FOR DETAILED EVALUATION

As discussed in Section 1.4, the Purpose and Need of the Proposed Action relates to the protection of the harbor and harbor environment (including cultural resources) while furthering Tribal goals of economic self-sufficiency, reestablishment of its original land base, self-governance, and self-determination. The only reasonable alternatives are to either take no action or take the requested parcels into trust on behalf of the Tribe. Other potential alternatives to the Proposed Action, such as alternative locations or a reduction in the size of the area taken in to trust, do not meet the definition of “reasonable” under the Council on Environmental Quality’s (CEQ’s) Regulations for Implementing the National Environmental Policy Act (NEPA) because the purpose and need would not be met. Being the only harbor currently owned by the Tribe in close proximity to Tribe’s existing lands, there are no other available comparable lands that would meet the purpose and need of the Proposed Action. Furthermore, all the parcels constitute the Trinidad Harbor lands and are vital to the operation of the pier and protection of cultural resources. For example, as shown on Figure 1-3, the spacing between Assessor’s Parcel Number (APN) 042-071-08 and 042-071-01 is vital to maintain public access to the trail head of Trinidad Head, which can be seen on the aerial photograph. Furthermore, APN 042-071-01 is an important storage area for operation of the pier during the crab and fishing seasons. Accordingly, a smaller area for the trust acquisition is not evaluated within the Environmental Assessment (EA).

The Tribe has proposed the development of a visitors’ center and formation of a Trinidad Harbor District (Proposed Project). There are no alternative lands available that would allow the Tribe to form the Trinidad Harbor District. Furthermore, all of the currently proposed lands are vital to the protection of the Trinidad Harbor District. Therefore, alternative locations for trust acquisitions are not evaluated within this EA. The Proposed Project would allow the Tribe to better market, manage, and operate its harbor properties more effectively. The Proposed Project is detailed below in Section 2.2.

2.2 PROPOSED ACTION AND PROPOSED PROJECT

The Proposed Action consists of placing nine parcels and three non-parceled areas totaling approximately nine acres as detailed in Table 2-1 into Federal trust status. These parcels are collectively known as the
 Tribe’s Harbor Businesses. This includes the pier, boat launch, boat cleaning and maintenance facilities, two parking lots (Bay Street and western parking lots), the Seascape Restaurant, a bait and gift shop, a vacation rental house, recreation areas, and areas for boat parking. The Proposed Action would include the construction of a visitor center, improvements to the existing parking lot, and the formation of a Trinidad Harbor District for the Tribe’s Harbor Businesses (Proposed Project). The development footprint of the visitor center would be approximately 0.03 acres. Approximately one acre of the project site is currently paved or otherwise developed with existing structures and signs of surface and subsurface disturbance (such as the presence of utilities). The majority of the project site (approximately five acres) would remain undeveloped and would be maintained as open space.

<table>
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<tr>
<th>TABLE 2-1</th>
<th>REQUESTED TRUST PARCELS</th>
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<tr>
<td><strong>Total Acreage</strong></td>
<td><strong>9.35</strong></td>
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PROPOSED ACTION

The Proposed Action consists of the fee simple conveyance of the approximately nine-acre project site into federal trust status for the benefit of the Cher-Ae Heights Indian Community of the Trinidad Rancheria (Tribe) in accordance with procedures set forth in 25 Code of Federal Regulations (CFR) §151.3. This trust action would shift civil regulatory jurisdiction over the approximately nine-acre site from the State of California, Humboldt County (County), and City of Trinidad (City) to the Tribe and the federal government. The State, County, and City would continue to exercise criminal jurisdiction under Public Law 280 (18 United States Code [USC] §1162) for the law enforcement activities identified under the Tribal Law Order Act of 2010. While the pier would be included within the trust action, in accordance with an agreement executed April 18, 2012 between the Tribe and the California Coastal Conservancy (CCC), the Tribe would maintain public access to the Trinidad Pier and associated marine access and recreational improvements until 2032. Federal laws, such as the Clean Water Act (CWA) and the Endangered Species Act (ESA), would continue to apply to tribal trust lands.
ALTERNATIVE A – PROPOSED PROJECT

The Tribe proposes to develop the Trinidad Harbor District. As components of the new Trinidad Harbor District, the Tribe would designate the beaches and bluffs as protected open space, improve stormwater quality, reduce stormwater flows generated along Bay Street, and construct a visitor center where the existing tackle shop is located. Alternative A is further discussed below.

HARBOR DISTRICT

The Trinidad Harbor District would include all of the Tribe’s Harbor Businesses. The Trinidad Harbor District Board of Directors would be comprised of Tribal members and staff that have current experience with the Harbor Businesses. The board of the Trinidad Harbor District would develop a more cohesive organization that markets, manages, and operates the businesses within the district more effectively. The establishment of this district would provide the Tribe with means of meeting the purpose and need of the proposed trust action.

OPEN SPACE COMPONENT

All existing open space within the project site (approximately five acres) would be preserved as open space and the Tribe would maintain public access to the open space. The open space would include Trinidad Little Head, all beach front, all Coastal Bluffs lands on the property, and current open space west of the residence. Development under Alternative A would occur on existing disturbed lands constituting the existing parking lot, storage area, and the tackle and gift shop.

BAY STREET STORMWATER IMPROVEMENTS

2.2 of the Attached (Figure 2-1). Design plans for the improved stormwater facilities are included as Appendix A. To reduce stormwater flow four dry wells, two cisterns, and two rain gardens would be installed around the Tribe’s Harbor Businesses and parking lot along Bay Street. In addition, rain gardens would be developed as shown on Figure 2-1 to collect rainwater. To reduce flows from Bay Street into the bay, the southeastern portion of the parking lot would be replaced with permeable pavers. Linear drains would be installed throughout the parking lot to transfer runoff to a bioswale that runs along the northern boundary of the parking lot before discharging onto the beach. The concrete rubble along the beach east of the proposed visitor center would be removed (Figure 2-1) and replaced with rip rap. Minor excavation would be required to develop the rain gardens, linear drains, bioswale, and the permeable pavement.

INTERPRETIVE VISITOR CENTER COMPONENT

The Tribe would develop a visitor center within the currently developed footprint between the boat launch and Seascape Restaurant in the central portion of the site, as shown in Figure 2-2. Design plans are included as Appendix B. The visitor center footprint would cover approximately 1,300 square feet and would be located on previously disturbed lands that currently house storage units and the tackle and
Trinidad Rancheria Fee-to-Trust and Interpretive Visitor Center Project EA 12-0560

Figure 2-2
Interpretive Center Site Plan


LEGEND
- Property Boundary 9.27 ac
- Project Site 0.03 ac

SCALE: 1/8" = 1'-0"
giftshop building. The visitor center would provide educational opportunities for tribal citizens and non-tribal members of the public and would focus on regional resources including Tribal cultural resources. The visitor center would include a seating area, reception area, two offices, a restroom, and a food preparation area. Two public entrances would be provided at the western and southern portion of the building. Parking for the visitor center would be provided by the existing parking lot along Bay Street. Lighting around the building and in the parking lot would be downcast and minimized to ensure that effects to local marine life are minimized, while remaining adequate for public safety and security. Site access would be obtained from Lighthouse Road and Bay Street. The visitor center would result in the hiring of one full-time-equivalent employee (FTE) and would also house the existing Harbor Manager. The Tribe estimates approximately five visitors a day are expected to patronize the visitor center during peak season.

**Water Supply**

Water would be supplied through the existing infrastructure connections to the City. Except for connections from the visitor center to the existing system serving the Seascape Restaurant, no additional water infrastructure is needed for Alternative A. Based on the addition of one FTE, the additional water demand to the site would be *de minimis* compared to existing water users on the site (rental house, bait and gift shop, and Seascape Restaurant). Visitors to the site would obtain water from the existing fountains near the restrooms or from the Seascape Restaurant.

**Wastewater Treatment and Disposal**

Wastewater generated by the one toilet and from the two sinks within the visitor center would be treated by the existing wastewater treatment system. The on-site system consists of a series of seven above ground recirculating packed bed units located south of the public restroom/storage building and situated behind a chain link fence. The on-site system utilizes engineered textile filter media, which works similarly to a sand filter and produces treated effluent higher in quality than the California standard for secondary treated wastewater (which can be discharged through land application). The seven tanks have the ability to treat up to approximately 35,000 gallons per day (Orenco, 2016). A pump transfers the treated wastewater up to the leach fields located along the northwestern slope of the hill near the western boundary of APN 04207108, between the access drive to the vacation rental home and the western parking lot.

**Grading and Drainage**

Grading would be limited to the development footprint area of the visitor center as shown on the proposed Site/Grading Plan (refer to Sheet C4 of Appendix B). The building would be constructed in manner consistent with the California Building Code (CBC) applicable to the site, including seismic design criteria.

To improve drainage over existing conditions, a storm drainage inlet system would be installed west and south of the visitor center to capture runoff from the building and from Bay Street. Three storm inlets
would discharge to the existing retention system located beneath the asphalt in front of Seascape Restaurant.

**PROJECT CONSTRUCTION**

The project components would be constructed after the approximately nine-acre property has been placed into federal trust. The new visitor center and accompanying parking lot improvements would be constructed over a five to sixth month period, with an anticipated completion date of 2017. The stormwater improvements would be constructed during the first phases of the visitor center development. Construction would involve earthwork, placement of concrete foundations, steel and wood structural framing, masonry, electrical and mechanical work, building finishing, and paving, among other construction trades. Prior to finalization of the grading and development plans for the property, design-level geotechnical specifications addressing the specific grading and development plans would be developed meeting seismic requirements of the CBC. The specifications would include, but not be limited to, the following:

- Site, building and facility-specific grading recommendations regarding site preparation, clearing and grubbing.
- Select grading procedures, remedial grading procedures, material suitability, and compaction criteria.
- Cut and fill slope stability analyses, recommended slope configurations and inclinations.
- Evaluation of soil expansion and corrosion potential.
- Building-specific foundation design parameters.
- Site-specific seismic design parameters.
- Lateral earth pressure parameters for retaining wall design, if any.
- Pavement design specifications.

**BEST MANAGEMENT PRACTICES AND CONSERVATION MEASURES**

**Air Quality**

Generation of construction-related emissions is a short-term nuisance impact. The following BMPs, required through contractual obligations, would be implemented to reduce these temporary construction emissions.

- The contractor will designate an on-site Air Quality Construction BMP Manager (AQCBM) who will be responsible for directing compliance with the following BMPs for project construction relating to heavy-duty equipment use:
  - All diesel-powered equipment shall be properly maintained and minimize idling time to 5 minutes when construction equipment is not in use, unless per engine manufacturer’s specifications or for safety reasons more time is required.
2.0 Proposed Action and Alternatives

- Engines shall be kept in good mechanical condition to minimize exhaust emissions.

- The AQCBM will be responsible for directing compliance with the following BMPs for fugitive dust control practices during project construction:
  - Spray exposed soil with water or other suppressant at least twice a day or as needed.
  - Minimize dust emissions during transport of fill material or soil by wetting down loads, ensuring adequate freeboard (space from the top of the material to the top of the truck bed) on trucks, and/or covering loads.
  - Promptly clean up spills of transported material on public roads.
  - Restrict traffic on site to reduce soil disturbance and the transport of material onto roadways.
  - Locate construction equipment and truck staging areas away from sensitive receptors as practical and in consideration of potential effects on other resources.
  - Provide wheel washers to remove particulate matter that would otherwise be carried off site by vehicles to decrease deposition of particulate matter on area roadways.
  - Cover dirt, gravel, and debris piles as needed to reduce dust and wind-blown debris.

**Fire Protection**

The following BMPs, required through contractual obligations, would be included as part of Alternative A to minimize the risk of fire during construction:

- Any construction equipment that normally includes a spark arrester would be equipped with an arrester in good working order. This includes, but is not limited to, vehicles, heavy equipment, and chainsaws.

- During construction, staging areas, welding areas, or areas slated for development using spark-producing equipment would be cleared of dried vegetation or other materials that could serve as fire fuel. To the extent feasible, the contractor would keep these areas clear of combustible materials in order to maintain a firebreak.

- Structural fire protection would be provided through compliance with Uniform Fire Code requirements for residences and commercial structures similar in size to the proposed clubhouse. The Tribe will cooperate with the fire district by allowing routine inspections. The Tribe would ensure that appropriate water supply and pressure is available for emergency fire flows.

- Typical fire flow allowances would be confirmed with the local Fire Marshall prior to construction of any water storage tank.

**Hazardous Materials**

The following BMPs will be required through contractual obligations and would be included as part of Alternative A to minimize the risk from use of hazardous materials during construction:

- Personnel shall follow best management practices (BMPs) for filling and servicing construction equipment and vehicles. To reduce the potential for accidental release, fuel, oil, and hydraulic
2.0 Proposed Action and Alternatives

fluids shall be transferred directly from a service truck to construction equipment and shall not be stored on site.

- Catch-pans shall be placed under equipment to catch potential spills during servicing.
- Refueling shall be conducted only with approved pumps, hoses, and nozzles.
- Vehicle engines shall be shut down during refueling and idling shall be kept to a minimum.
- No smoking, open flames, or welding shall be allowed in refueling or service areas.
- Refueling shall be performed away from bodies of water to prevent contamination of water in the event of a leak or spill.
- Service trucks shall be provided with fire extinguishers and spill containment equipment, such as absorbents.
- Should a spill contaminate soil, the soil shall be put into containers and disposed of in accordance with local, state, and federal regulations.
- All containers used to store hazardous materials shall be inspected at least once per week for signs of leaking or failure. All maintenance, refueling, and storage areas shall be inspected monthly.
- Hazardous materials must be stored in appropriate and approved containers in accordance with applicable regulatory agency protocols.
- Potentially hazardous materials, including fuels, shall be stored away from drainages, and secondary containment shall be provided for all hazardous materials stored during construction and operation.
- In the event that contaminated soil and/or groundwater is encountered during construction related earth-moving activities, all work shall be halted until a professional hazardous materials specialist or other qualified individual assesses the extent of contamination. If contamination is determined to be hazardous, representatives of the Tribe shall consult with the BIA and EPA to determine the appropriate course of action, including development of a Sampling and Remediation Plan, if necessary. Any and all contaminated soils that are determined to be hazardous shall be disposed of in accordance with federal regulations.

2.3 ALTERNATIVE B – NO-ACTION ALTERNATIVE

Under the No-Action Alternative, the approximately nine-acre site would not be placed in trust for the benefit of the Tribe and would not be developed as identified under Alternative A. Jurisdiction of the property would remain within the City. Ultimately, the nine-acre site could be developed consistent with the existing commercial and recreation land uses by the Tribe. However, for the purposes of the environmental analysis in this EA, it is assumed that, due to the economic considerations for operating the Harbor Properties by the Tribe, the property will continue to be utilized in its current state for recreation, parking, restaurant, boating, and fishing with no additional facilities constructed under this alternative.


2.4 COMPARISON OF THE PROJECT ALTERNATIVES

**ALTERNATIVE A**

Alternative A would result in significant but mitigable environmental impacts in the following areas:

- Land Resources
- Water Resources
- Biological Resources
- Cultural Resources

Of the project alternatives evaluated in Section 4.0, Alternative A would best meet the Tribe’s objectives by providing the Tribe with a Trinidad Harbor Visitor Center and recreational facilities for the benefit of the Tribe and community while minimizing or eliminating adverse environmental impacts.

**ALTERNATIVE B**

While the No-Action alternative would not result in most of the environmental effects identified for Alternative A, this alternative would not meet the Tribe’s objectives of exercising tribal sovereign authority over the land and enhance the wellbeing of tribal resources; further the Tribe’s goal to reestablish its original land base; further the Tribe’s goal to preserve the surrounding environment and cultural resources for future generations; construct a visitor center; and form a tribal Trinidad Harbor District. The property would continue to release contaminants from the impervious parking lots into Trinidad Bay during rain events, potentially harming wildlife and sensitive ecosystems.
SECTION 3.0
DESCRIPTION OF AFFECTED ENVIRONMENT

This section presents relevant information concerning existing resources and other values that may be affected by the Project Alternatives. In accordance with the National Environmental Policy Act (NEPA) and the Bureau of Indian Affairs’ (BIA’s) NEPA Guidebook (59 IAM 3-H), the existing conditions described herein provide the baseline for determining the environmental effects identified in Section 4.0. As used herewithin, the terms “project site” and “project parcels” both refer to the approximately nine acres being requested by the Tribe for trust acquisition by the BIA. Accordingly, the term “proposed development” refers to the proposed visitor center, roadway, and drainage improvements. Existing setting descriptions are provided for the following resource and issue areas:

- Land Resources
- Water Resources
- Air Quality and Greenhouse Gases
- Biological Resources
- Cultural Resources
- Socioeconomic Conditions / Environmental Justice
- Transportation and Circulation
- Land Use
- Agriculture
- Public Services
- Noise
- Hazardous Materials
- Visual Resources

3.1 LAND RESOURCES

The following section provides the existing topographical, geological and seismic, soil, and mineral resource settings of the project parcels.

3.1.1 TOPOGRAPHY

The topography of the project site is influenced by the coastal beaches, dunes, and graded landscapes and ranges from gentle slopes where the areas have been previous graded to steep and rugged bluffs. There are also two coastal heads that project out into Trinidad Bay on the south central and south eastern portion of the site. Overall, the northern, central, and eastern portions of the site slope south whereas the western
portion of the site slopes east to west, draining onto Trinidad State Beach. Slopes within the project site are varied; the proposed development area has gentle slopes between 5 to 6 percent having been previously disturbed during paving of the access roadways and parking serving the restaurant, pier, and beaches. The elevations of the project site range from 0 to 55 feet above mean sea level (amsl).

### 3.1.2 GEOLOGIC SETTING AND SEISMICITY

The bedrock underlying the project site is primarily made up of Mesozoic-Paleozoic-Precambrian Sedimentary and Metasedimentary Rocks, more specifically, the Franciscan Complex which comprises 54.0 percent of the Trinidad Watershed (County of Humboldt, 2012a). Primary seismic concerns in Humboldt County (County) include ground shaking and rupture along existing fault traces. Secondary concerns include liquefaction, settlement, landslides, and tsunamis. The County is a seismically active region. Offshore, three major faults meet at what is known as the “triple junction.” These include the San Andreas, the Mendocino fracture zone, and the southern end of the Cascade subduction zone. The faults separate the Pacific plate, Gorda plate, and North American plate. The project site is located outside of a designated Alquist-Priolo zone, which is an area determined by the California Geological Survey (CGS) to be a well-defined area with sufficiently active seismicity, according to mandates of the Alquist-Priolo Earthquake Fault Zoning Act of 1972. These Alquist-Priolo zone areas are located along active faults that are susceptible to the hazard of surface fault rupture. The nearest Alquist-Priolo zone is approximately 0.43 miles east of the project site along the Trinidad fault and extends northwest just north of Elk Head (Figure 3-1). With the distance to the Trinidad fault and based on the regional geology, the project site is located in an area of California determined to have a high potential for ground shaking during a seismic event (DOC, 2003).

### 3.1.3 SOILS

Table 3-1 lists soils found on the project site and their respective properties. The project site is composed primarily of Oxyaquic Udipsamments – Sonoma Complex soils, but small areas of Candymountain soils are also present (Figure 3-2).

<table>
<thead>
<tr>
<th>TABLE 3-1</th>
<th>SOIL PROPERTIES FOR SOILS ON THE PROJECT SITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Type</td>
<td>Slope Limitations</td>
</tr>
<tr>
<td>157 – Oxyaquic Udipsamments – Sonoma Complex</td>
<td>0-50% Eroded</td>
</tr>
<tr>
<td>299 – Candymountain</td>
<td>30-75% Eroded</td>
</tr>
</tbody>
</table>

The coastal bluffs in the northern and eastern portion of the project site are comprised of Candymountain soils. The remainder of the project parcels are comprised of Oxyaquic Udipsamments – Sonoma Complex soils. Oxyaquic Udipsamments soils are typically comprised of unvegetated beaches with parent material consisting of beach sand and gravel derived from mixed sources, typical of oceanic beaches. These are
Figure 3-2
Project Site Soil Types
typically moderately well drained soils with a very low runoff class and a high to very high capacity to transmit water. Somoa soils typically comprise coastal dunes with parent material consisting of eolian and marine sand derived from mixed sources. These are typically somewhat excessively drained soils with a medium runoff class and a high to very high capacity to transmit water. Candymountain soils typically comprise bluffs and marine terraces with parent material consisting of marine deposits from mixed sources. These are typically well drained soils with a high runoff class and a moderately high to high capacity to transmit water (NRCS, 2016).

3.1.4 MINERAL RESOURCES

The County has over 90 extraction sites that produce sand, gravel, metals, stone, and clay. Most mining activity is sand and gravel extraction along the Mad River, Eel River-Van Duzen River complex, Willow Creek, and Trinity River. There are over 30 permitted active hard rock quarries (County of Humboldt, 2012a). The nearest rock extraction site, Trinidad Quarry, is east of Highway 101 and greater than 1.5 miles northeast of the project parcels (USGS, 2015). No known mineral resources exist within the project parcels.

3.2 WATER RESOURCES

The following section presents the existing surface water, drainage, flooding, water supply, groundwater, and water quality settings of the project parcels.

3.2.1 SURFACE WATER, DRAINAGE, AND FLOODING

WATERSHEDS AND HYDROLOGY

The project site is situated within the Luffenholtz Creek-Frontal Pacific Ocean subwatershed of the Trinidad Hydrologic Unit (HU). The Trinidad HU watershed lies immediately between the Redwood Creek HU, approximately 16 miles to the north, and the Mad River HU, approximately 6 miles south of the project parcels. Together, with the Eureka Plain HU, these major watersheds form the Mad-Redwood basin, which comprises 617,426 acres within the County (Department of Conservation, 2014). Within the Trinidad HU, Mill Creek flows to the west just north of the City and McConnahas Mill Creek flows west bisecting the City and flowing adjacent to the north boundary of the Trinidad Rancheria. Luffenholtz Creek is one of the main flowing water bodies in the watershed at over 12 miles in length and a starting elevation of 269 feet, where it eventually flows and discharges into the Trinidad Bay of the Pacific Ocean approximately 1.75 miles southeast of the project parcels. Mill Creek is the nearest inland waterbody, which discharges to the Pacific Ocean approximately 0.3 miles north of the project parcels. However, the project parcels are situated in Trinidad Harbor and based on the topography do not contribute hydraulically to the surrounding watersheds.
3.0 Affected Environment

City Water Supply

The City’s water system serves approximately 315 connections within its sphere of influence using surface water as the source. The City has a domestic water right for supplies from Luffenholtz Creek, located approximately 1.5 miles south of the City. Originally, homes in the City had individual wells or were served from an untreated water supply from Mill Creek (also referred to as Old Mill Creek). An infiltration gallery and water treatment plant were constructed to supply the City with water from Luffenholtz Creek when it became clear that Mill Creek could not meet long term needs.

The pumps located at the infiltration gallery that supply pressure to move water through treatment to the storage tanks were inundated with sediment a few years back. The pumps were rehabilitated, but have never worked as well as expected since their repair. The pumps should be capable of delivering 120 gallons per minute (gpm), but only deliver about 100 gallons per minute. The City of Trinidad has an operations and maintenance program that keeps the storage, treatment, and distribution systems in good condition. The storage tanks are regularly inspected and the steel bands tightened to prevent water losses. The City conducted leak detection testing on the distribution system in 2003 and tested all water meters in 2003. Major leaks detected have been repaired, and poorly functioning water meters are being replaced as funds become available (County of Humboldt, 2007).

DRAINAGE

Slopes on the project site range from 0 to 60 percent, with the proposed development area sloping to the west at approximately 5 to 6 percent and the steepest slopes being the coastal bluffs. Runoff across the parking surfaces is generated as sheet flow and follows the topography towards Trinidad Bay. This sheet flow is not collected, but drains onto the beach near the old boat launch to the south of the proposed development. Sheet flow from the coastal bluff immediately upslope of the proposed development area is conveyed via natural drainages in the cliff. This water also drains onto the beach.

Pier Stormwater System

Stormwater generated on the pier is collected in a series of gutters and piping where it is treated in a sedimentation chamber and filter system located adjacent to where the pier connects to land. All stormwater runoff from the new pier is directed thru the filters and into the infiltration chambers. Filter cartridges are removed and maintained once every two years as per the manufacturer’s recommendations. The stormwater filter system treats runoff captured from the pier deck, thus eliminating potential sources of contamination from pier-generated petroleum products and other pollutants that result from activities on the pier. Treated stormwater is then diverted to subsurface percolation chambers located beneath the asphalt directly adjacent to the Seascape Restaurant. The Tribe has implemented a Contingency Plan for Failure of Stormwater Disposal System plan and a Maintenance and Monitoring of Stormwater Disposal System plan to ensure adequate operation and maintenance of the stormwater system. Both plans and the storm drain plan sheet are included as Appendix C. Currently, only stormwater generated on the newly refurbished pier is collected and treated in the system.
3.0 Affected Environment

**FLOODING**

The Federal Emergency Management Agency (FEMA) is responsible for predicting the potential for flooding in most areas. FEMA routinely performs this function through the update and issuance of Flood Insurance Rate Maps (FIRM), which depict various levels of predicted inundation. FEMA has not completed an analysis of flood hazards in Trinidad; as such, a FEMA flood map is unavailable. Areas immediately northwest of Trinidad including the Trinidad State Beach are zoned D on FEMA flood hazard maps. Directly north of Trinidad along the Mill Creek’s crossing of Highway 101, a small area of Zone A is identified. Zone D is reserved for areas where there is a possible but undetermined flood hazard. Zone A is reserved for areas within the hazard of a 100-year flood (FEMA, 2016).

Areas subject to flood hazards are generally located along the Mill Creek corridor and its associated ravines. Flood hazard concerns associated with development along the Mill Creek corridor and ravine have been reduced by the City via a general plan amendment to not allow construction along the corridor. In general, flooding hazard in the Trinidad area is very slight with the exception of just north of the City and on the southern boundary where water features are located. The only waterways are small streams flowing into the ocean and those are typical of high stream banks not subject to frequent flooding. Flooding on Luffenholtz Creek has affected the City water pumps at times. Within the City, some ponding may occur due to poorly drained soils. According to the Plate No. 3B in the City’s General Plan, the area just south of Bay Street (which borders the subject property) is indicated to experience flooding. However, due to the previous grading conducted at the project site and topography of the upland portions of the City adjacent to the project parcels, the potential for flooding on the project site is minimal.

3.2.2 GROUNDWATER

The County has 4 main groundwater basins and 10 minor basins. The total potential groundwater yield within the County is approximately 100,000 acre feet. The project site is located in the Big Lagoon Area minor groundwater basin, which is approximately 34,000 acres (County of Humboldt, 2012b). These watersheds are within the Coast Ranges geologic province and are mainly composed of highly unstable and easily eroded rock which contributes to the high amounts of sedimentation in the features streams (County of Humboldt, 2012b). Outside of the beach areas, depth to groundwater ranges from 20 to 39 inches (NRCS, 2016). There are no groundwater wells within the project parcels.

3.2.3 WATER QUALITY

**SURFACE WATER**

The Clean Water Act (CWA) (33 USC 1251-1376), as amended by the Water Quality Act of 1987, is the major federal legislation governing water quality. The objective of the CWA is “to restore and maintain the chemical, physical, and biological integrity of the Nation’s waters.” The U.S. Environmental Protection Agency (USEPA) is delegated as the authoritative body under the CWA. Important sections of the CWA applicable to the Proposed Action are as follows:
Sections 303 and 304 provide for water quality standards, criteria, and guidelines. Section 303(d) requires states to identify impaired water bodies and develop total maximum daily loads (TMDLs) for the contaminant(s) of concern. Section 402 establishes the National Pollutant Discharge Elimination System (NPDES), a permitting system for the discharge of any pollutant (except for dredged or fill material) into waters of the U.S. Each NPDES permit contains limits on pollutant concentrations of wastes discharged to surface waters to prevent degradation of water quality and protect beneficial uses.

Antidegradation Policy

The federal antidegradation policy (40 CFR Part 131.6) is designed to protect water quality and water resources. The policy directs states to adopt a statewide policy that includes the following primary provisions: (1) existing instream uses and the water quality necessary to protect those uses shall be maintained and protected; (2) where existing water quality is better than necessary to support fishing and swimming conditions, that quality shall be maintained and protected unless the state finds that allowing lower water quality is necessary for important local economic or social development; and (3) where high-quality waters constitute an outstanding national resource, such as waters of national and state parks, wildlife refuges, and waters of exceptional recreational or ecological significance, that water quality shall be maintained and protected. Each state must also develop procedures to implement its anti-degradation policy through water quality management processes. Each state’s anti-degradation policy must include implementation methods consistent with the provisions outlined in 40 CFR 131.12 (USEPA, 1994).

Complying with the anti-degradation provision of the CWA, the North Coast Regional Water Quality Control Board (NCRWQCB) has established general water quality objectives for all inland surface waters under State jurisdiction to protect designated beneficial uses. The Water Quality Control Plan for the North Coast Region (Basin Plan) outlines these surface water quality objectives. Table 3-2 lists the specific water quality objects outlined in the Basin Plan by parameter for surface waters under State jurisdiction within the surrounding watersheds. The Basin Plan does not currently list water quality objectives for the Trinidad Hydraulic Unit.

The State Water Resources Control Board, in compliance with Section 303 of the Clean Water Act (CWA), has prepared a list of impaired water bodies in California. Impaired water bodies occur where industrial and technological waste limits or other legal mechanisms for pollution control are not enough to meet water quality standards. The list includes a priority schedule for the development of TMDLs for each contaminant or “stressor” impacting the water body. The Trinidad Bay is not listed on the 303(d) list for impaired water bodies; however, Trinidad State Beach is listed for impairment of one or more beneficial uses due to indicator bacteria (Table 3-3).
3.0 Affected Environment

### TABLE 3-2
GENERAL WATER QUALITY OBJECTIVES FOR THE EEL RIVER

<table>
<thead>
<tr>
<th>Waterbody</th>
<th>Specific Conductance (micro-ohm)</th>
<th>Total Dissolved Solids (mg/L)</th>
<th>Dissolved Oxygen (mg/L)</th>
<th>pH</th>
<th>Hardness (mg/L)</th>
<th>Boron (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>90% Upper Limit&lt;sup&gt;1&lt;/sup&gt;</td>
<td>50% Upper Limit&lt;sup&gt;2&lt;/sup&gt;</td>
<td>90% Upper Limit&lt;sup&gt;1&lt;/sup&gt;</td>
<td>50% Upper Limit&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Min</td>
<td>90% Upper Limit&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Redwood Creek</td>
<td>220&lt;sup&gt;3&lt;/sup&gt;</td>
<td>125&lt;sup&gt;3&lt;/sup&gt;</td>
<td>115&lt;sup&gt;3&lt;/sup&gt;</td>
<td>75&lt;sup&gt;3&lt;/sup&gt;</td>
<td>7.0</td>
<td>7.5</td>
</tr>
<tr>
<td>Mad River</td>
<td>300&lt;sup&gt;3&lt;/sup&gt;</td>
<td>150&lt;sup&gt;3&lt;/sup&gt;</td>
<td>160&lt;sup&gt;3&lt;/sup&gt;</td>
<td>90&lt;sup&gt;3&lt;/sup&gt;</td>
<td>7.0</td>
<td>7.5</td>
</tr>
</tbody>
</table>

1. 50% upper and lower limits represent the 50 percentile values of the monthly means for a calendar year. 50% or more of the monthly means must be less than or equal to an upper limit and greater than or equal to a lower limit.
2. 90% upper and lower limits represent the 90 percentile values for a calendar year. 90% or more of the values must be less than or equal to an upper limit and greater than or equal to a lower limit.
3. Does not apply to estuarine areas.

SOURCE: NCRWQCB, 2011a

### TABLE 3-3
2010 CLEAN WATER ACT SECTION 303(D) LIST

<table>
<thead>
<tr>
<th>Location</th>
<th>Pollutants/Stressors</th>
<th>Potential Sources</th>
<th>TMDL Status</th>
<th>TMDL Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trinidad State Beach</td>
<td>Indicator Bacteria</td>
<td>Unknown</td>
<td>TMDL</td>
<td>Proposed 2019</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>developed</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Category 5a)</td>
<td></td>
</tr>
</tbody>
</table>

SOURCE: NCRWQCB, 2011b

**GROUNDWATER**

The Basin Plan also specifies water quality objectives for groundwater in the north coast. Objectives for groundwater are listed in **Table 3-4**.

### TABLE 3-4
WATER QUALITY OBJECTIVES FOR GROUNDWATER

<table>
<thead>
<tr>
<th>Tastes and Odors</th>
<th>Bacteria&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Radioactivity&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Chemical Constituents&lt;sup&gt;1&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot exceed concentrations that cause nuisance or adversely affect beneficial uses</td>
<td>Cannot exceed 1.1 MPN/100mL Or 1 colony/100mL</td>
<td>Cannot exceed California Code of Regulations, Title 22, Division 4, Chapter 15, Article 5, Section 64443, Table 4 and listed in Table 3-2 of the Basin Plan</td>
<td>Cannot exceed limits specified in California Code of Regulations, Title 22, Division 4, Chapter 15, Article 4, Section 64435 Tables 2 and 3, and Section 64444.5 (Table 5) and listed in Table 3-2 of the Basin Plan</td>
</tr>
</tbody>
</table>

<sup>1</sup> Domestic or municipal sources only.


In order to protect drinking water supplies and under the mandate of the Safe Drinking Water Act, USEPA defines National Primary Drinking Water Regulations (primary standards). These are legally enforceable standards that apply to public water systems. These standards are established to protect human health by
limiting the levels of contaminants in drinking water. The USEPA also defines National Secondary Drinking Water Regulations (secondary standards). Water is supplied to facilities within the project site by the City. The vacation rental and Seascape restaurant’s wastewater is treated by above ground treatment tanks with disposal via a leach field.

### 3.3 AIR QUALITY AND GREENHOUSE GAS

The following describes existing air quality conditions, including greenhouse gases (GHG) that occur within the project site and general vicinity.

#### 3.3.1 REGULATORY SETTING

**CLEAN AIR ACT**

The Federal Clean Air Act (CAA) was enacted for the purposes of protecting and enhancing the quality of the nation’s air resources to benefit public health, welfare, and productivity. Basic components of the CAA and its amendments include national ambient air quality standards (NAAQS) for major air pollutants and state implementation plans (SIPs) to ensure country-wide NAAQS compliance. Regulation of air pollution is achieved through both the NAAQS and emissions limitations for individual sources of air pollutants established through permitting requirements. The USEPA is the federal agency responsible for identifying criteria air pollutants (CAPs) for which NAAQS are established, updating and revising the NAAQS, and approving and overseeing SIPs as they relate to compliance with the CAA. The USEPA has identified six CAPs that are both common indicators of regional air quality and detrimental to human health. The six CAPs are ozone, carbon monoxide (CO), particulate matter (≤ 10 microns and ≤ 2.5 microns in diameter (PM_{10} and PM_{2.5})), nitrogen dioxide (NO_{2}), sulfur dioxide (SO_{2}), and lead. The NAAQS, appropriate metrics, and violation criteria for the six CAPs are presented in Table 3-5.

**Federal General Conformity**

Under the General Conformity Rule of the CAA, recently updated in 2010, the lead agency with respect to a federal action is required to demonstrate that a proposed federal action conforms to the applicable SIP(s) before the action is taken. There are two phases to a demonstration of general conformity:

1. The Conformity Review process, which entails an initial review of the federal action to assess whether a full conformity determination is necessary, and
2. The Conformity Determination process, which requires that a proposed federal action be demonstrated to conform to the applicable SIP(s).

The Conformity Review requires the lead agency to compare estimated emissions attributable to the federal action to the applicable general conformity *de minimis* threshold(s) for all CAPs for which the applicable air basin or region is in nonattainment for the applicable NAAQS. If the emission estimate(s) from step one is below the applicable *de minimis* threshold(s), then a General Conformity Determination is not required.
3.0 Affected Environment

under the CAA (40 CFR Part 93). If emission estimates are greater than *de minimis* levels, the lead agency must conduct a Conformity Determination.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Averaging Time</th>
<th>Primary NAAQS</th>
<th>Secondary NAAQS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone ((O_3)) a</td>
<td>1 hour</td>
<td>0.12 ppm</td>
<td>0.12 ppm</td>
</tr>
<tr>
<td></td>
<td>8 hour</td>
<td>0.08 ppm</td>
<td>0.08 ppm</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>1 hour</td>
<td>35 ppm</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>8 hour</td>
<td>9.0 ppm</td>
<td>NA</td>
</tr>
<tr>
<td>Nitrogen Dioxide (NO(_2))</td>
<td>1 hour</td>
<td>100 ppb</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Annual Mean</td>
<td>0.053 ppm</td>
<td>0.053 ppm</td>
</tr>
<tr>
<td>Sulfur Dioxide (SO(_2))</td>
<td>1 hour</td>
<td>75 ppb</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>3 hour</td>
<td>NA</td>
<td>0.05 ppm</td>
</tr>
<tr>
<td>Respirable Particulate Matter (PM(_10))</td>
<td>24 hour</td>
<td>150 (\mu g/m^3)</td>
<td>150 (\mu g/m^3)</td>
</tr>
<tr>
<td>Fine Particulate Matter (PM(_2.5))</td>
<td>24 hour</td>
<td>35 (\mu g/m^3)</td>
<td>35 (\mu g/m^3)</td>
</tr>
<tr>
<td></td>
<td>Annual Mean</td>
<td>12 (\mu g/m^3)</td>
<td>15 (\mu g/m^3)</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>Quarterly Average</td>
<td>0.15 (\mu g/m^3)</td>
<td>0.15 (\mu g/m^3)</td>
</tr>
</tbody>
</table>

Note: a) Standard for existing ozone non-attainment area only

Source: EPA, 2011

*Federal Class I Areas*

Title 1, Part C of the CAA was established, in part, to preserve, protect, and enhance the air quality in national parks, national wilderness areas, national monuments, national seashores, and other areas of special national or regional natural, recreational, scenic, or historic value. The CAA designates all international parks, national wilderness areas, and memorial parks larger than 5,000 acres and national parks larger than 6,000 acres as “Class I areas.” The CAA prevents significant deterioration of air quality in Class I areas under the Prevention of Significant Deterioration (PSD) program. The PSD Program protects Class I areas by allowing only a small increment of air quality deterioration in these areas by requiring assessment of potential impacts on air quality related values of Class I areas. There are no federal Class I areas within or adjacent to the project site; refer to Section 3.3.4 for further discussion.

*Federal Hazardous Air Pollutant Program*

Title III of the CAA requires the USEPA to promulgate National Emissions Standards for Hazardous Air Pollutants (NESHAPs). The NESHAPs may differ between regional sources and area sources of hazardous air pollutants (HAPs). Major sources are defined as stationary sources with potential to emit more than 10
3.0 Affected Environment

tpy of any HAP or more than 25 tpy of any combination of HAPs (all other non-major sources are considered area sources under the NESHAPs program). HAPs are a specific group of airborne chemicals designated by the USEPA. Sources of HAPs include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least 40 different HAPs. The most important, in terms of health risk, is diesel particulate matter (DPM), benzene, formaldehyde, 1,3-butadiene, and acetaldehyde.

HAPs are less pervasive in the urban atmosphere than CAPs, but are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. There are hundreds of different types of HAPs, with varying degrees of toxicity. Currently, there are over 188 HAPs listed by the USEPA. The majority of the estimated health risk from HAPs can be attributed to relatively few compounds, the most important being DPM (CARB, 2005). Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are particulate matter that includes carbon. Diesel exhaust also contains a variety of harmful gases and over 40 other cancer-causing substances.

**CLIMATE CHANGE**

**Federal**

In 2002, President George W. Bush established a national policy goal of reducing the GHG emission intensity (tons of GHG emissions per million dollars of gross domestic product) of the U.S. economy by 18% by 2012. No binding reductions were associated with the goal. Rather, the USEPA administers a variety of voluntary programs and partnerships with GHG emitters, in which the USEPA partners with industries producing and utilizing GHGs to reduce associated emissions.

**Clean Air Act**

In Massachusetts et al. vs. Environmental Protection Agency et al. (April 2, 2007), the US Supreme Court ruled that the CAA authorizes the USEPA to regulate CO2 emissions from new motor vehicles. The Court did not mandate that the USEPA enact regulations to reduce GHG emissions, but found that the only instances where the USEPA could avoid taking action were if it found that GHGs do not contribute to climate change or if it offered a “reasonable explanation” for not determining that GHGs contribute to climate change. On December 15, 2009, the USEPA issued a final endangerment and cause finding (74 FR 66496), stating that high atmospheric levels of GHGs “are the unambiguous result of human emissions, and are very likely the cause of the observed increase in average temperatures and other climatic changes.” The USEPA further found that “atmospheric concentrations of GHG endanger public health and welfare within the meaning of Section 202 of the Clean Air Act.” The finding itself does not impose any requirements on industry or other entities.

**U.S. Environmental Protection Agency**

On December 7, 2009, USEPA Administrator Lisa Jackson signed a Final Action, under Section 202(a) of the CAA, finding that six key well-mixed GHG constitute a threat to public health and welfare, and that the
combined emissions from motor vehicles cause and contribute to the climate change problem. The following are the most recent regulatory actions taken by the USEPA:

- On July 23, 2009, the USEPA published a final “rule which proposes to establish the criteria for including sources or sites in a Registry of Recoverable Waste Energy Sources (Registry),” as required by the Energy Independence and Security Act of 2007. Waste energy can be used to produce clean electricity. The clean electricity produced by waste energy would reduce the need for non-renewable forms of electricity production, thus reducing GHG emissions.

- On September 15, 2009, the USEPA and the Department of Transportation’s National Highway Traffic Safety Administration (NHTSA) proposed a new national program that would reduce GHG emissions and improve fuel economy for all new cars and trucks sold in the United States. The USEPA proposed the first national GHG emissions standards under the Clean Air Act, and NHTSA proposed an increase in the Corporate Average Fuel Economy (CAFE) standards under the Energy Policy and Conservation Act.

- In response to the FY2008 Consolidated Appropriations Act (H.R. 2764; Public Law 110–161), the USEPA issued the Final Mandatory Reporting of Greenhouse Gases Rule. Signed by the Administrator on September 22, 2009, the rule requires that suppliers of fossil fuels and industrial GHGs, manufacturers of vehicles and engines outside of the light duty sector, and facilities that emit 25,000 metric tons or more of GHGs per year to submit annual reports to the USEPA. The rule is intended to collect accurate and timely emissions data to guide future policy decisions on climate change.

- On September 30, 2009, the USEPA proposed new thresholds for GHGs that define when CAA permits under the New Source Review and title V operating permits programs would be required.

- In December, 2014 The CEQ Chair released a memorandum, Revised Draft NEPA Guidance on Consideration of the Effects of Climate Change and Greenhouse Gas Emissions. The memorandum provides guidance on how project-related GHG emission should be analyzed in NEPA documents. The Revised Draft Guidance provides that a NEPA climate change analysis shall provide quantification and mitigation to reduce GHG emissions. The guidance also provides that 25,000 metric tons of GHG emissions per year may be a helpful guideline to assist lead agencies in making informed decisions on climate change impacts resulting from a project subject to NEPA. The guidance notes that the 25,000 metric tons is not an indicator of a threshold of significant effects, but rather, it is an indicator of a minimum level of GHG emissions that may warrant some description in the appropriate NEPA analysis for agency actions involving emissions of GHGs.

### 3.3.2 Project Area and Vicinity

The project site is located in the North Coast Air Basin (NCAB), which extends for 250 miles from Sonoma County in the south to the Oregon border in the north and east through Trinity County. The climate of the...
NCAB is influenced by two major topographic units: the Klamath Mountains and the Coast Range provinces. Both provinces are marked by large areas of rugged, mountainous terrain. The coastal plains, which are part of the Coast Range province, constitute less than 10 percent of the area of the NCAB but contain the major industrial and population centers. The project site is located on the edge of the coastal plain in the foothills of the Klamath Mountains.

### 3.3.3 Regional Air Quality

**NAAQS Designations**

As shown in Table 3-6, the NCAB is in attainment or is unclassified for all CAPs under the current NAAQS designation.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>NAAQS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone</td>
<td>Attainment/ Unclassified</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>Attainment/ Unclassified</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>Attainment/ Unclassified</td>
</tr>
<tr>
<td>CO</td>
<td>Attainment/ Unclassified</td>
</tr>
<tr>
<td>NO$_2$</td>
<td>Attainment/ Unclassified</td>
</tr>
<tr>
<td>SO$_2$</td>
<td>Attainment</td>
</tr>
<tr>
<td>Lead</td>
<td>Attainment/ Unclassified</td>
</tr>
</tbody>
</table>


**Pollutants of Concern**

Pollutants of concern are CAPs that are present in quantities exceeding the NAAQS in the applicable air basin or region and air pollutants that are not designated as CAPs, such as CAP precursors (NOx and ROG), yet can be temporarily present in high concentrations in a localized region of the SCCAB. No CAPs exceed the NAAQS in NCAB and no CAP precursors would be temporarily present in high concentration in the NCAB. Therefore, pollutants of concerns are not present in the NCAB.

**Hazardous Air Pollutants**

The current operations at the project site do not meet the definition of a major source for HAPs. Operations often involve idling diesel vehicles associated with the commercial fishing operations of the pier and result in releases of DPM.

### 3.3.4 Federal Class I Areas

The nearest federal Class I area, Redwood Creek National Park, is located approximately 10 miles east of the project site.
3.3.5 GREENHOUSE GASES

The extent to which human activities affect global climate change is a subject of considerable scientific debate. It is anticipated that the average global temperature could rise 0.6 to 4.0 °C (1.08 to 7.18 °F) between the years 2000 and 2100 (IPCC, 2007). The Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report identifies anthropogenic GHGs as a contributing factor to changes in the Earth’s climate (IPCC, 2007). To err on the side of caution, the analysis in this EA assumes anthropogenic GHGs are in fact contributing to global climate change.

The Humboldt County Climate Action Plan includes a GHG inventory and establishes an emission reduction target. The Climate Action Plan also identifies numerous goals and policies aimed at reducing GHG emissions. These goals and policies are to be incorporated into the County of Humboldt General Plan (County of Humboldt, 2012c).

Primary sources of GHG emissions in the region include vehicles, trucks, airplanes, mills, ships, canneries, and electricity generation facilities. However, there are many other sources of GHG emissions in the region.

3.3.6 SENSITIVE RECEPTORS

Sensitive receptors are facilities that house or attract children, the elderly, and people with illnesses or others who are especially sensitive to the effects of air pollutants. Hospitals, schools, convalescent facilities, and residential areas are examples of sensitive receptors.

The project site vicinity is characterized by low-density residential uses. One existing single family residence (vacation rental) is present on the project site and is therefore the nearest sensitive receptor. Construction would occur adjacent to this residence. The nearest off-site residence is located adjacent to the northeastern boundary of the project site. The nearest school (Trinidad Elementary School) is located approximately 0.4 miles northeast of the project site. There are no other types of sensitive receptors in the vicinity of the project site.

3.4 BIOLOGICAL RESOURCES

The following describes existing biological resource conditions, including habitat conditions and listed species that occur within the project site and general vicinity.

Existing biological resources were evaluated through a review of pertinent literature, consultation of relevant databases, and biological field surveys to document habitat types and the potential occurrence for federally listed species on the approximately nine-acre project site. Biological field assessments were conducted by AES staff on November 19 and 20, 2015.
3.4.1 REGULATORY SETTING

**FEDERAL ENDANGERED SPECIES ACT**

The USFWS and the National Marine Fisheries Service (NMFS) implement the Federal Endangered Species Act of 1973 (FESA) (16 USC 1531 et seq.). Threatened and endangered species on the federal list (50 CFR 17.11 and 17.12) are protected from “take” (direct or indirect harm), unless a Section 10 Permit is granted or a Biological Opinion with incidental take provisions is rendered. Pursuant to the requirements of FESA, an agency reviewing a proposed project within its jurisdiction must determine whether any federally listed species may be present in the project area and determine whether the proposed project will have a potentially significant impact upon such species. Under FESA, habitat loss is considered to be an impact to the species. In addition, the agency must determine whether a project is likely to jeopardize the existence of species or habitat for species proposed to be listed under FESA (16 USC 1536[3], [4]). USFWS also designates species of concern. Species of concern receive attention from federal agencies during environmental review, although they are not otherwise protected under FESA. Project-related impacts to such species would also be considered significant and would require mitigation.

**WATERS OF THE U.S.**

Any person, firm, or agency planning to alter or work in navigable waters of the U.S., including the discharge of dredged or fill material, must first obtain authorization from the United States Army Corps of Engineers (USACE). Permits, licenses, variances, or similar authorization may also be required by other federal, state and local statutes. Section 10 of the Rivers and Harbors Act of 1899 prohibits the obstruction or alteration of navigable waters of the United States without a permit from the Corps of Engineers (33 U.S.C. 403). Section 301 of the Federal Water Pollution Control Act and Amendments of 1972 (Clean Water Act or CWA) prohibits the discharge of pollutants, including dredged or fill material, into waters of the United States without a Section 404 permit from USACE (33 U.S.C. 1344). Water Quality Certification (a CWA Section 401 permit) may be required by the USEPA before other permits are issued.

**MIGRATORY BIRD TREATY ACT**

Most bird species, especially those that are breeding, migratory, or of limited distribution, are protected under federal and state regulations. Under the Migratory Bird Treaty Act of 1918 (16 USC 703-711), migratory bird species, and their nests and eggs, that are on the federal list (50 CFR 10.13) are protected from injury or death, and project-related disturbances must be reduced or eliminated during the nesting cycle.

3.4.2 ENVIRONMENTAL SETTING

The project site has a maritime climate regime with warm, temperate summers and cool, wet winters. The vicinity of the project site is a rural residential area to the east-northeast, one residence to the adjacent west, surrounding open space, coastal bluffs, and coastal shorelines. The terrain on the project site is rolling hills with the parking lot being relatively flat. The remaining property ranges from hilly with low elevation.
3.0 Affected Environment

changes to coastal bluffs with extreme elevation changes. The predominant geological features are the
Trinidad Head to the west, the Trinidad Bay to the west-southwest, and Little Head to the east. The area of
the City is characterized by steep coastline. Within the developed area of the City, the topography is
relatively flat with the coastal bluffs being the most dramatic changes in topography.

**Vegetative Communities**

Vegetative communities are assemblages of plant species that occur together in the same area that are
defined by species composition and relative abundance. Vegetation communities were classified using the
California Department of Fish and Wildlife (CDFW) Terrestrial Natural Communities of California system,
or “Holland type.” Habitat types occurring within the project site include ruderal/developed and coastal
scrub. These habitats are located within a close vicinity of urban residential and open spaces associated
with coastal bluffs and shoreline. A habitat map of the project site is presented as Figure 3-3.

**Ruderal/Developed**

Most of the project site consists of ruderal/developed land (Figure 3-3). Bay Street is a paved street that
connects to the site’s parking lot. Buildings and infrastructure are located on the site as described in
Section 2. Native vegetation surrounds the site and borders the site’s impervious surfaces.

**Northern Coastal Scrub**

Most of the undeveloped portions of the property are characterized by northern coastal scrub. Northern
coastal scrub is characterized by low shrubs in dense patches. Usually occurring on windy, exposed sites
with shallow and rocky soils. The most dominating species include Cascara (*Frangula purshiana*), Blue
Blossom (*Ceanothus thyrsiflorus*), Twinberry (*Lonicera involucrata*), and Silk Tassel (*Garrya elliptica*).
Associated native species include Douglas Iris (*Iris douglasiana*), Sticky Monkey Flower (*Mimulus
aurantiacus*), Evergreen Huckleberry (*Vaccinium ovatum*), Bracken Fern (*Pteridium aquilinum* var.
pubescens), Bee Plant (*Scrophularia californica*), and Wild Cucumber (*Marah oreganum*). Northern coastal
bluff scrub is less abundant and usually only occurs where there is high salt content, constant high winds,
and poor soil conditions. All flora is similar to Northern Coastal Scrub, however, many species are dwarfed
and highly influenced by high winds and salinity of the ocean. Common native species include Coyote
Brush (*Baccharis pilularis*), Salal (*Gaultheria shallon*), Leather Fern (*Polypodium scouleri*), Beach
Strawberry (*Fragaria chiloensis*), Pacific Stonecrop (*Sedum spathulifolium*), Ocean bluff blue grass (*Poa
unilateralis*), California Bentgrass (*Agrostis densiflorus*), and Alumroot (*Heuchera micrantha*).

**Wildlife**

A variety of wildlife utilize the habitats that occur on or near the project site. Species observed or identified
by physical evidence during the November 19 and 20, 2015 site visit include: black oyster catcher
(*Haematopus bachmani*), turkey vulture (*Cathartes aura*), mourning dove (*Zenaida macroura*), California
gull (*Larus californicus*), Swainson’s thrush (*Catharus ustulatus*), American robin (*Turdus migratorius*),
double-crested cormorant (*Phalacrocorax auritus*), and harbor seal (*Phoca vitulina*).
LEGEND

- Property Boundary  9.38 ac

HABITAT TYPES
- Coastal Scrub
- Ruderal/Developed
- Shoreline/Beach

Feet

0 125 250

SOURCE: Humboldt County Parcel GIS Data, 2013; DigitalGlobe aerial photograph, 6/6/2013; AES, 4/21/2016

Figure 3-3
Habitat Types
**Migratory Bird Habitat**

Although the project site does not contain suitable habitat for nesting birds, there is a potential for migratory birds to occur directly adjacent to the project parcels on the shoreline and on the coastal bluffs.

**Potential Waters of the U.S.**

There are no surface water features, outside of the ocean, that are present within the boundaries of the project parcels that have the potential to be classified as waters of the U.S. or wetlands.

### 3.4.3 Special-Status Species

For the purposes of this assessment, “special status” is defined to be species that are of management concern to federal resource agencies and include those species that are:

- Listed as endangered, threatened, or candidate for listing under the Federal Endangered Species Act; or
- Designated as species of concern or species of local concern by USFWS.

A list of special-status plant and animal species that have potential to occur on the project site was compiled based on a review of pertinent literature, a reconnaissance-level site assessment, informal consultation with the USFWS, and the results of a California Natural Diversity Data Base (CNDDB) query (Appendix D).

Based upon the review of regionally occurring special-status species and their habitat requirements and the results of the field assessment, the project site and/or surrounding vicinity represents potential habitat for one special-status plant species and three special-status animal species. The name, regulatory status, habitat requirements, and period of identification for potentially occurring special-status species are identified in Table 3-7.

**Western Lily**

The western lily is a perennial herb that grows from a bulb. The species typically grows in bogs, freshwater marshes, coastal scrub or prairie, or gaps in coniferous forest. It often grows in association with such species as sundew (*Drosera spp.*), California rose-bay (*Rhododendron maccropyllum*), California huckleberry (*Vaccinium ovatum*), Labrador tea (*Ledum groenlandicum*), and red alder (*Alnus rubra*). Populations are found within six miles of the coast and from near sea level to 320 feet amsl in elevation. The western lily blooms from June through July (Hickman, 1993; CNPS, 2016). No western lilies were observed during the December site visit. Since western lily often grows in association with other species that were observed adjacent and to the west of the vacation rental, western lily has the potential to occur on the project site.
### TABLE 3-7
POTENTIALLY OCCURRING FEDERAL SPECIAL-STATUS SPECIES

<table>
<thead>
<tr>
<th>SCIENTIFIC NAME</th>
<th>COMMON NAME</th>
<th>FEDERAL STATUS</th>
<th>DISTRIBUTION</th>
<th>HABITAT REQUIREMENTS</th>
<th>PERIOD OF IDENTIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PLANTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Lilium occidentale</em></td>
<td>western lily</td>
<td>FE From Coos Bay in Oregon to Humboldt Bay in California.</td>
<td>Bogs and fens, coastal bluff scrub, coastal prairie, coastal scrub, freshwater marshes and swamps, and openings within North Coast coniferous forest habitat.</td>
<td>June - July</td>
<td></td>
</tr>
<tr>
<td><strong>ANIMALS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Birds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Brachyramphus marmoratus</em></td>
<td>Marbled Murrelet</td>
<td>FT From San Francisco Bay to Southern Alaska</td>
<td>Breeding requires north coast conifer old forests while foraging habitat requires shallow shoreline and tidal pools.</td>
<td>Year-round</td>
<td></td>
</tr>
<tr>
<td><em>Charadrius alexandrinus nivosus</em></td>
<td>Western Snowy Plover</td>
<td>FT From Mexico to Southern Washington</td>
<td>Tidal pools and shallow tidal marshes, coastal shoreline with or without shrubs.</td>
<td>Year-round</td>
<td></td>
</tr>
<tr>
<td>Mammals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Eumetopias jubatus</em></td>
<td>Steller Sea Lion</td>
<td>FT North Pacific from Japan to Central California</td>
<td>Rocky shores and haul-out areas in coastal areas.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
FEDERAL STATUS CODES: (U.S. Fish and Wildlife Service or National Marine Fisheries Service)

FE = Listed as Endangered by the Federal Government
FT = Listed as Threatened by the Federal Government


**MARBED MURRELET**

The marbled murrelet is a small seabird found in the north pacific. It nests in old growth forests and forages in shallow shoreline and tidal pools. They range from the San Francisco Bay area to Southern Alaska along the Pacific coastline. Breeding habitat requirements include north coast conifer old growth forests. Foraging habitats include shallow shoreline and tidal pools with bare beaches and some rocky outcroppings in shallow bays. Although breeding habitat is not located on or adjacent to the proposed project site, potential foraging habitat is located directly adjacent to the site and therefore marbled murrelet as the potential to occur on the project site.

**WESTERN SNOWY PLOVER**

The western snowy plover is a small shorebird near the size of a sparrow. During the breeding season, March through September, plovers are present on shores, peninsulas, islands, bays, estuaries, and rivers of the Pacific coast, especially beaches and shores with plenty of wrack (debris). Breeding on the California Coast occurs between March and June. Although the prime habitat for snowy plover has been designated in on the shoreline of San Luis Obispo and Santa Barbara Counties, snowy plover have the potential to occur on the project site.

**STELLER SEA LION (EUMETOPIAS JUBATUS) (EASTERN DPS)**

Steller sea lions are found around the rim of the North Pacific Oceana and in the Bering Sea. This includes Northern California, Oregon, Washington, Canada, and Alaska along with some spotted in Japan. Like all eared seals, Steller sea lions hunt at sea and return to shore to rest, breed, and give birth. Steller sea lions
can be found in rookeries and haul-outs. Rookeries are the breeding colonies where reproduction occurs. Haul-outs are where animal rest on shore but no reproduction occurs on haul-outs. Breeding season occurs between June and July. Due to potential rookeries and haul-outs on or near the project site, the Steller sea lion has the potential to occur.

3.5 CULTURAL RESOURCES

Archaeological studies of the project site were conducted in 2011 by Donald Verwayen of the Humboldt State University Cultural Resources Facility for the reconstruction of the Trinidad Pier and by AES in November 2015; the Verwayen report is included as Appendix E under a separately bound cover due to the sensitive nature of the material addressed. Verwayen’s study included both a field survey and literature search to identify and evaluate potential prehistoric and historic resources. The AES effort included a field verification of the Verwayen results and a Native American contact program. Historic-era archaeological resources, built resources, a paleontological deposit, and several Traditional Cultural Properties were identified during these efforts.

3.5.1 REGULATORY SETTING

NATIONAL REGISTER OF HISTORIC PLACES

The eligibility of a resource for listing in the NRHP is determined by evaluating the resource using criteria defined in 36 CFR 60.4 as follows: The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of state and local importance that possess integrity of location, design, setting, materials, workmanship, feeling, association, and:

A. That are associated with events that have made a significant contribution to the broad patterns of our history;
B. That are associated with the lives of persons significant in our past;
C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
D. That have yielded, or may be likely to yield, information important to prehistory or history.

Sites younger than 50 years, unless of exceptional importance, are not eligible for listing in the NRHP.

In addition to meeting at least one of the criteria listed above, the property must also retain enough integrity to enable it to convey its historic significance. The National Register recognizes seven aspects or qualities that, in various combinations, define integrity. These seven elements of integrity are: location, design, setting, materials, workmanship, feeling, and association. To retain integrity a property will always possess several, and usually most, of these aspects.
While most historic buildings and many historic archaeological properties are significant because of their association with important events, people, or styles (criteria A, B, and C), the significance of most prehistoric and some historic-period archaeological properties is usually assessed under criterion D. This criterion stresses the importance of the information contained in an archaeological site, rather than its intrinsic value as a surviving example of a type or its historical association with an important person or event. It places importance not on physical appearance but rather on information potential.

**NATIONAL HISTORIC PRESERVATION ACT**

Section 106 of the National Historic Preservation Act (NHPA) as amended, and its implementing regulations found in 36 CFR Part 800, require federal agencies to identify cultural resources that may be affected by actions involving federal lands, funds, or permitting. The significance of the resources must be evaluated using established criteria outlined in 36 CFR 60.4, as described below.

If a resource is determined to be a *historic property*, Section 106 of the NHPA requires that effects of the federal undertaking on the resource be determined. A historic property is defined as:

...any prehistoric or historic district, site, building, structure or object included in, or eligible for inclusion in the National Register of Historic Places, including artifacts, records, and material remains related to such a property (NHPA Sec. 301[5])...

Section 106 of the NHPA prescribes specific criteria for determining whether a project would adversely affect a historic property, as defined in 36 CFR 800.5. An impact is considered adverse when prehistoric or historic archaeological sites, structures, or objects that are listed, or eligible for listing, in the NRHP are subjected to the following:

- Physical destruction of or damage to all or part of the property;
- Alteration of a property;
- Removal of the property from its historic location;
- Change of the character of the property’s use or of physical features within the property’s setting that contribute to its historic significance;
- Introduction of visual, atmospheric, or audible elements that diminish the integrity of the property’s significant historic features;
- Neglect of a property that causes its deterioration; and
- Transfer, lease, or sale of the property out of federal control without adequate and legally enforceable restrictions or conditions to ensure long-term preservation of the property’s historic significance.

If the historic property will be adversely affected by development, then prudent and feasible measures to avoid or reduce adverse impacts must be taken. The State Historic Preservation Officer (SHPO) must be provided an opportunity to review and comment on these measures prior to project implementation.
**TRADITIONAL CULTURAL PROPERTIES**

The 1992 amendments to the NHPA allowed for a new designation of a traditional cultural property (TCP). The amendment established "Properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization" may be determined eligible for inclusion in the NRHP (Section 101(d)(6) of the NHPA. Accordingly, a tribal TCP can only be significant and eligible for listing on the NRHP if it meets two criteria: 1) rooted in that community’s history; and 2) are important in maintaining the continuing cultural identity of the community”.

### 3.5.2 METHODOLOGY

**RECORDS AND LITERATURE SEARCH**

Background research for the Proposed Action and Project were taken from the Verwayen report, which also covered the entire APE for the Proposed Action and Proposed Project. The records search and literature review for this study were completed: (1) to determine whether known cultural resources had been recorded within or adjacent to the study area; (2) to determine whether known resources have been reported in archaeological, ethnographic, and historical documents and literature; and (3) to assess the likelihood of unrecorded cultural resources based on the distribution of nearby archaeological sites in relation to their environmental setting.

The following inventory and databases were included in the review: National Register of Historic Places, California Register of Historical Resources, California Inventory of Historic Resources, California Historical Landmarks, California Historic Highway Bridge Inventory, Humboldt Room of the Humboldt State University Library, County Recorder’s Office at the Humboldt County Court House, and historic maps.

Verwayen’s record search results included only one ethnographic resource, the Yurok village site of Tsurai on Trinidad Bay (CA-HUM-169), east of the Proposed Action APE, and a fossil locality on the western end of the Proposed Action APE. Twenty-one cultural resource surveys have been completed within the record search area, three shipwrecks have been noted in Trinidad Bay, and a single historical resource, a logging skid road associated with the Smith and Dougherty Trinidad Mill Company, is nearby but not eligible for listing on the NRHP.

Verwayen’s 2011 cultural survey recorded eight resources, Around Chicken Hawk’s Place, a TCP on Trinidad Bay that includes several individual loci; remnants of a whale skidway; the Trinidad Pier; the mid-19th century Trinidad Dump, a multi component site that included historic debris and prehistoric lithic artifacts and trade beads; Muggay’s Grave; Tibbett’s Grave; a marine railway, and a soapstone quarry. Two of these were determined to be eligible for the NRHP: Around Chicken Hawk’s Place under Criterion A for its association with events that have made a significant contribution to the broad patterns of history; and Criterion B for association with the lives of persons significant in our past. The whale skidway was found
eligible under Criterion C as it embodies the distinctive characteristics of type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

Two of the Around Chicken Hawk’s Place TCP loci are within the Proposed Action APE. These are Chicken Hawk’s House on Little Head and Chicken Hawk’s Boat, on the small peninsula east of Little Head. The whale skidway, Trinidad Pier, the marine railway, the dump, Tibbett’s and Muggay’s graves, the soapstone quarry, and the paleontological deposit are also all within the Proposed Action APE.

Charlane Gross, M.A., RPA and AES Staff Archaeologist, conducted a cultural resources field survey of the project site on November 19-20. The portions of the APE that were accessible were limited. The APE largely consisted of paved parking areas, steep, heavily vegetated embankments, the pier, or inaccessible geographic features such as Little Head/Chicken Hawk’s House and Chicken Hawk’s Boat. The only areas truly accessible for archaeological review were located west and northwest of the Seascape Restaurant and the beaches on either side of Trinidad Pier; these areas were surveyed using transects 5-10 meters apart. The two grave sites, soapstone quarry, and mid-19th century dump were either covered by dense vegetation or gone, as no evidence for any of these sites could be found. No new resources were identified.

**NATIVE AMERICAN CONSULTATION**

Verwayen (2011) contacted the Native American Heritage Commission (NAHC) and attempted to contact the individuals listed by the NAHC in 2011 with no specific results. A new search request was sent to the NAHC on November 5, 2015 by AES. Results were received on November 24, 2015 and are appended to Verwayen report and are included in Appendix E. Letters were sent to those individuals identified by the NAHC on November 30, 2015. To date, no responses have been received. A consultation log is included in Appendix E.

**3.5.3 EXISTING FIELD CONDITIONS**

The area where the stormwater improvements would be developed and the visitor’s center would be placed are already developed, with a combination of asphalt, shipping containers, sheds, utility boxes, sewer manholes, fire hydrants, and barricade posts, thoroughly disturbing any potential buried cultural resources. None of the physical resources or TCP elements are within Bay Street, the parking lot, or the visitor’s center footprints, and none should be affected by project construction.

**3.6 SOCIOECONOMIC CONDITIONS / ENVIRONMENTAL JUSTICE**

The following section provides the existing socioeconomic conditions and regional setting to evaluate environmental justice considerations for the project parcels.
3.0 Affected Environment

3.6.1 TRINIDAD, HUMBOLDT COUNTY

POPULATION

The City had a population of approximately 236 people (Table 3-8) (U.S. Census 2014a) according to 5-year estimates for population. Humboldt County had a population estimate of approximately 14,876 people whereas the State of California had a population of 38,066,920. Trinidad’s population is approximately 0.18 percent of the population of Humboldt County, and approximately 0.0006 percent of California’s population. Over the next 20 years, the County’s population is expected to grow from approximately 134,876 to approximately 139,780 (California Department of Finance, 2016.)

<table>
<thead>
<tr>
<th>TABLE 3-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRINIDAD, HUMBOLDT COUNTY, CALIFORNIA DEMOGRAPHICS</td>
</tr>
<tr>
<td>2009-2014 5-Year Estimates¹</td>
</tr>
<tr>
<td>Trinidad</td>
</tr>
<tr>
<td>Humboldt County</td>
</tr>
<tr>
<td>California</td>
</tr>
<tr>
<td>SOURCE: U.S. Census, 2014a</td>
</tr>
<tr>
<td>¹Total populations</td>
</tr>
</tbody>
</table>

EMPLOYMENT

The labor force in Trinidad is approximately 149 people of which 143 are employed (Table 3-9). The labor force in the County is approximately 66,449 people of which 58,868 are employed. The unemployment rate for Trinidad is 3.4 percent whereas Humboldt County is 11.3 percent (0.3 percent over the State of California.)

<table>
<thead>
<tr>
<th>TABLE 3-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRINIDAD, HUMBOLDT COUNTY, CALIFORNIA EMPLOYMENT</td>
</tr>
<tr>
<td>In Labor Force¹</td>
</tr>
<tr>
<td>Employed</td>
</tr>
<tr>
<td>Unemployment Rate</td>
</tr>
<tr>
<td>SOURCE: U.S. Census, 2014b</td>
</tr>
<tr>
<td>¹16 years and over population</td>
</tr>
</tbody>
</table>

3.6.2 CHER-AE HEIGHTS INDIAN COMMUNITY OF TRINIDAD RANCHERIA

Statistics for the Tribe were obtained from the Bureau of Indian Affairs’ American Indian Population and Labor Force Estimate Report, 2005 (Table 3-10; note that the 2013 report does not provide the socioeconomic statistics of the Tribe).
3.0 Affected Environment

### TABLE 3-10

<table>
<thead>
<tr>
<th>Tribal Enrollment</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Indians on or near Reservation</td>
<td>231</td>
</tr>
<tr>
<td>Under age 16</td>
<td>43</td>
</tr>
<tr>
<td>Age 16 through 64</td>
<td>131</td>
</tr>
<tr>
<td>Over age 64</td>
<td>12</td>
</tr>
<tr>
<td>Available for work</td>
<td>128</td>
</tr>
<tr>
<td>Unavailable for work</td>
<td>15</td>
</tr>
<tr>
<td>Employed in Public Sector Positions</td>
<td>11</td>
</tr>
<tr>
<td>Employed in Private Sector Positions</td>
<td>72</td>
</tr>
<tr>
<td>Employed but Below the Poverty Line</td>
<td>0</td>
</tr>
</tbody>
</table>

**SOURCE:** BIA, 2005.

3.6.3 **ENVIRONMENTAL JUSTICE FOR MINORITY AND LOW INCOME POPULATIONS**

On February 11, 1994, President Clinton issued Executive Order 12898, “Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations,” and an accompanying Presidential Memorandum to focus federal attention on the environmental and human health conditions in minority communities and low-income communities. The Executive Order, as amended, directs federal agencies to develop an Environmental Justice Strategy that identifies and addresses disproportionately high human health or environmental effects of their programs, policies, and activities on minority populations and low-income populations. Compliance with this Executive Order has been incorporated into the NEPA compliance requirements of the BIA for the Proposed Action.

The City is located within the census block group 060230102002 with a population of 650 people. The total population that is reported as “low income” is approximately 30 percent (195 people) which is five percent lower than the State estimation of low income population (EPA, 2016).

The County is approximately 18.4 percent minority (Table 3-11). In the County, American Indians make up 5.74 percent of the population, including members of the Tribe.

### TABLE 3-11

<table>
<thead>
<tr>
<th>Race/Ethnic Population 2010</th>
<th>Total</th>
<th>Percentage of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>104,373</td>
<td>77.53%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>13,211</td>
<td>9.81%</td>
</tr>
<tr>
<td>American Indian</td>
<td>6,988</td>
<td>5.19%</td>
</tr>
<tr>
<td>Multi-Race</td>
<td>5,419</td>
<td>4.03%</td>
</tr>
<tr>
<td>Asian</td>
<td>2,886</td>
<td>2.14%</td>
</tr>
<tr>
<td>Black</td>
<td>1,410</td>
<td>1.05%</td>
</tr>
<tr>
<td>Pacific Islander</td>
<td>336</td>
<td>0.25%</td>
</tr>
<tr>
<td>Household Median Income 2007-2011</td>
<td>$40,376</td>
<td>--</td>
</tr>
<tr>
<td>Poverty Status (All Ages)</td>
<td>--</td>
<td>18.4%</td>
</tr>
</tbody>
</table>

**SOURCE:** California Department of Finance, 2013
3.0 Affected Environment

3.7 TRANSPORTATION AND CIRCULATION

The following section provides the existing transportation and circulation settings of the project parcels.

**ROADWAY SYSTEM**

A brief description of the key roadways in the vicinity of the project site is provided below.

**U.S. Highway 101**

Within California, U.S. Highway 101 (U.S. 101) is a north-south freeway that extends north from Los Angeles along the coast all the way to the Oregon state line. Within the County, the highway alternates between a two-lane undivided highway and a four-lane divided highway. Within the project study area, the highway is a four-lane divided facility with full interchanges/grade separations at all major cross roads. Highway 101 is listed as a principal arterial roadway from the town of Wasthaven (just south of Trinidad) extending northward to the Oregon border.

**Westhaven Drive**

Westhaven Drive, a minor collector roadway, extends from Westhaven, California northward approximately 10 miles through Trinidad ending in Patrick’s Point, California.

**Main Street**

Main Street is an east-west paved two-lane roadway that bisects the City connecting to Westhaven Drive North under Highway 101, and connects to Trinity Street to the west. Main Street is an approximately 20 foot wide road that connects businesses and rural residential houses in the City.

**Trinity Street**

Trinity Street is a north-south paved residential two-lane roadway that connects to Main Street on its north end and Edwards Street on its south end. The roadway is similar to Main Street in width and structure.

**Edwards Street**

Edwards Street is an east-west paved two-lane residential roadway with side street parking for residences on both the north and south sides. Edwards Street connects with Ocean Avenue to the east and Lighthouse Road to the west. Edwards Street has similar width and structure of Main Street.

**Lighthouse Road**

Lighthouse Road is a north-south general, paved, rural/recreational roadway that connects the City to the Trinidad Head Lighthouse. At its beginning with Edwards Street, it is a paved two-lane road for approximately 80 feet until it turns into a one-lane road and continues up the side of Trinidad Head in a meandering way until the top where it ends at Trinidad Head Lighthouse. Lighthouse road does not have sidewalks or gutters as it is mainly used for hikers and maintenance vehicles traveling to the Trinidad Head.
Lighthouse. Lighthouse Road is connected to by Bay Street approximately 120 feet after it becomes one lane.

**Bay Street**

Bay Street is a connecting one-lane paved roadway that runs in an east-west general direction from Lighthouse Road on the west to the Trinidad Wharf on the east. Bay Street runs through the parking lot on the project site and has parking for vehicles towing boats, and other vehicles. On the south side of the parking lot, south of Bay Street, another unnamed road connects the parking lot to Lighthouse Road as well.

**PUBLIC TRANSIT, BICYCLE, AND PEDESTRIAN CIRCULATION**

There is currently no public transit system that serves the project site. However, public transit service is located within 0.7 road miles northeast of the project site, with a park-and-ride stop of the Redwood Transit line on Main Street, between the intersections of Trinidad Scenic Drive and View Avenue. The Trinidad Stop is the northernmost stop for the Redwood Transit line which stops in the City occurring six times per day on the weekdays and four times per day on the weekends. The Redwood Transit line is operated by the Humboldt Transit Authority (HTA, 2016). There are no bicycle paths in the vicinity of the project site. The Trinidad State Beach Park trails are located adjacent to the project site, with access provided by the project parcels and from public access from the western parking lot. The Tribe is required to ensure public access is maintained to the recreational areas in accordance with the funding agreement for the previously completed pier reconstruction project.

**3.8 LAND USE**

**3.8.1 REGULATORY SETTING**

The Nation’s coastal waters are protected by the federal Coastal Zone Management Act (CZMA) of 1972, which is administered by the National Oceanic and Atmospheric Administration within the Department of Commerce. In California, the CZMA is administered by the California Coastal Commission (CCC), which was established by voter initiative and made permanent by the California Coastal Act of 1976. The CCC carries out its statutory responsibilities largely through the review and approval of local coastal programs (LCPs). The Coastal Zone is defined by the California Coastal Act as, "the land and water area of the State of California from the Oregon Border to the border of the Republic of Mexico," as officially mapped on 7.5-minute USGS quadrangle maps and adopted by the CCC. The project site is located within the Coastal Zone.

Title 15 CFR Part 930 requires federal consistency determinations for projects directly or indirectly affecting any coastal use or resource. Federal consistency determinations stem from the CZMA requirement that federal actions (that are reasonably likely to affect any land or water use or natural resource of the Coastal Zone) be consistent with the enforceable policies of a coastal State's or territory's federally approved Coastal Management Program (“State CMP” or “CMP”). Federal actions include: (1)
direct federal actions--activities and development projects performed by a federal agency, or a contractor for the benefit of a federal agency; and (2) indirect federal actions--activities not performed by a federal agency, but requiring federal permits or licenses or other forms of federal approval, and federal financial assistance to states, territories, and local governments.

The objective is to ensure that federal agencies and applicants for federal approvals and funding adequately consider and comply with State CMPs. Under CZMA Sec. 307(C), each federal agency shall provide a consistency determination to the relevant State agency designated at the earliest practical time, but in no case later than 90 days before final approval of the federal activity (unless both the federal agency and the State agency agree to a different schedule).

3.8.2 Existing Setting

The nine-acre property is characterized by ruderal/developed land with small portions of open space, a restaurant, one single-family residence (vacation rental), and numerous outbuildings such as a small bait shop, storage sheds, equipment storage, boat ramp, and the pier. The project site is located adjacent to the Trinidad Bay and portions of the open space are coastal bluffs and shoreline. Surrounding land uses vary from recreational trails to the west to residential on the north and northeast. The project site is located within the City and a portion of the project site is adjacent to the Trinidad Head public resource. The current City General Plan (1978) has the project parcels zoned as commercial. The most recent draft update to the City General Plan, which includes provisions that constitute the LCP under the CZMA, has the project site with a land use designation of Harbor (H) (Figure 3-4) within the City limits. Trinidad Head and Trinidad Little Head are both zoned as Open Space (OS) while residences to the north have a land use designation of Urban Residential (UR). Although there is one residence near the project site, it is within the Harbor land use designation and is not zoned for residential. The Harbor zoning designation is intended to provide an area in which a mixture of limited commercial, industrial, and recreational uses can occur in the existing Trinidad Harbor area. All functions in this designation can continue to provide mixed uses as commercial fishing, recreational fishing, and the protection and reserve of coastal dependent and coastal related uses. No new residential dwelling units are allowed in this designation other than a caretaker unit.

3.9 Agriculture

The approximately nine-acre site is not currently used for agricultural operations. With the exception of the coastal bluffs, the site is largely developed. The site does not provide adequate acreage for crop development or cattle grazing and has no history of agricultural uses.

3.9.1 Williamson Act Provisions

Under the provisions of the Williamson Act (California Land Conservation Act 1965, Section 51200), landowners contract with the County to maintain agricultural or open space use of their lands in return for reduced property tax assessment. Withdrawal involves a ten-year period of tax adjustment to full market
LEGEND

- Property Boundary 9.27 ac

TRINIDAD LAND USE DESIGNATIONS

- H - Harbor
- OS - Open Space
- UR - Urban Residential

Figure 3-4
Land Use Designation of the Project Site

SOURCE: City of Trinidad, 2009; DigitalGlobe aerial photograph, 6/6/2013; AES, 4/21/2016
3.0 Affected Environment

value before protected open space can be converted to urban uses. Consequently, land under a Williamson Act Contract can be in either a non-renewal status or a renewal status. Lands with a non-renewal status indicate the owner has withdrawn from the Williamson Act Contract and is waiting for a period of tax adjustment for the land to reach its full market value for tax purposes. The project site is not under an active Williamson Act Contract. The nearest Williamson Act Contract is more than 10 miles to the south.

3.9.2 FARMLAND PROTECTION POLICY ACT

The goal of the Farmland Protection Policy Act (FPPA) is to minimize the extent that federal actions and programs result in the conversion of agricultural lands to non-agricultural uses. Pursuant to the FPPA, the Farmland Conversion Rating Form (Form AD 1006) is used to determine the value of the farmland under consideration and the level of protection such land should receive. However, one of the first questions of the form is whether there will be a loss of prime farmland, and if the answer is no there is no need to complete this analysis. The project site does not contain any designated prime farmland; therefore, no further analysis as to the impact to farmland is required.

3.10 PUBLIC SERVICES

The following section provides the existing water supply; wastewater service; solid waste; electricity, natural gas, and telecommunications; law enforcement; and fire protection and emergency medical service settings that currently serve the project parcels.

3.10.1 WATER SUPPLY

The City of Trinidad operates the water treatment facility which serves the City and surrounding unincorporated areas, including the Harbor Properties. This facility is located at 1313 Westhaven Drive North, Trinidad, CA. The facility supplies approximately 40,000 to 50,000 gallons of potable drinking water per day (gpd) during the winter months and approximately 100,000 gallons per day during the summer months on 325 service lines (Buckman, 2015).

3.10.2 WASTEWATER SERVICE

No municipal wastewater service exists on the project site. The Harbor Properties are served by the onsite wastewater treatment system, which is owned, operated, and maintained by the Tribe. The above ground tank system has a permitted capacity to discharge up to 4,750 gallons per day (gpd) to leachfields located along the norther slope between the driveway to the vacation rental and the western parking lot. The average flow for 2015 was 2,102 gpd providing more than 50 percent available capacity.

3.10.3 SOLID WASTE

Humboldt Sanitation, a private contractor based in McKinleyville, provides solid waste disposal services to the Rancheria and associated properties, including the Trinidad Harbor. Humboldt Sanitation also operates
Humboldt Recycling, which serves the Trinidad’s recycling needs. Waste is collected and stored at the Humboldt Sanitation Company transfer station in McKinleyville and then transferred to the Anderson Landfill in Redding, California. The transfer station has a permitted capacity of 100 tons per day and there are no enforcement actions against the facility operation. Anderson Landfill has a maximum permitted capacity of 1,850 tons per day and, with a remaining capacity of over 11 million cubic yards (as of March 2008), has an expected closure date of 2055 (CalRecycle, 2016). There are no enforcement actions against the Anderson Landfill operation.

3.10.4 ELECTRICITY, NATURAL GAS, AND TELECOMMUNICATIONS

PG&E supplies electricity to existing homes and businesses in the project area. American Telephone and Telegraph (AT&T) provides all current telephone service and also controls the telephone lines and would be responsible for any underground or overhead extensions necessary to serve the project. Internet and cable TV is available to the site from Suddenlink Communications and through various satellite television services.

3.10.5 LAW ENFORCEMENT

In 2010, the City transferred law enforcement responsibilities of the Trinidad Police Department to the County Sheriff. The Humboldt County Sheriff’s Office provides law enforcement services throughout the County. The service area includes approximately 800 square miles of area from Arcata south to Redcrest. The Sheriff’s Office includes Administrative, Operations, and Corrections divisions. Within the Operations division are the patrol units, criminal investigation, and court services. The Sheriff’s Office also includes a Special Enforcement Team, boating unit, SWAT, and a drug enforcement unit. The Humboldt County Sheriff’s Department provides primary law enforcement, while the California Highway Patrol (CHP) provides traffic and supplemental law enforcement services to the project site. The Humboldt County Correctional Facility is the detention facility for persons arrested in unincorporated areas including the project site. On deputy is staffed at Trinidad for 40 hours per week, 4 days a week. During that deputy’s off days and time, the CHP would be the first respondents to emergency 9-1-1 calls. The expected response times for this portion of the County are estimated at from 1 to 15 minutes. The Sheriff’s Office is staffed by 61 sworn deputies 45 of which are assigned to patrol and 217 total staff. The total staff includes corrections and support staff (Cavinta, 2013). There are approximately 38 patrol vehicles plus specialized vehicles such as 4x4s and other off-road vehicles used in drug enforcement activities. The main Eureka Station Patrol Unit is currently compromised of 2 Lieutenants, 4 Sergeants, 6 Corporals, and 21 Deputy Sheriffs.

The Humboldt County Sheriff’s Office has stations in Eureka, Garberville, McKinleyville, and Hoopa. The Main Station is located in Eureka and serves the project site. Per an agreement between the Humboldt County Sheriff’s Office and the Tribe, the Tribe provides funding for a second deputy to patrol and provide law enforcement services in the vicinity of the Rancheria (Cavinta, 2013).
3.10.6 FIRE PROTECTION AND EMERGENCY MEDICAL

The Trinidad Volunteer Fire Department provides fire suppression and emergency medical services to the areas within the City limits. The Trinidad Volunteer Fire Department also has mutual aid agreements with the CalFire. Trinidad Volunteer Fire Department has one fire station located at 409 Trinity Street in Trinidad, California, which is staffed entirely by volunteers, currently 29 volunteers, and therefore not staffed on a regular basis. All staff are trained as first responders or emergency medical technicians (EMTs), and the Trinidad Volunteer Fire Department regularly responds to medical emergency calls. Typically, the Trinidad Volunteer Fire Department responds to approximately 50 calls per year (City of Trinidad, 2015).

Although CAL FIRE aids local fire departments in wildfire situations, the project site is not located within a State Responsibility Area, as mapped by the California Department of Forestry and Fire Protection (CAL FIRE) (CAL FIRE, 2012). The project site is located in high fire hazard area within a Local Responsibility Area (CAL FIRE, 2012), where CAL FIRE does not have responsibility to provide wildland fire protection services.

Emergency medical services are overseen and authorized by the North Coast Emergency Medical Services Authority (North Coast EMS). North Coast EMS is a Joint Powers Authority created to coordinate the regional EMS system and to reduce the occurrence of death and disability on the north coast (North Coast EMS, 2016). Ambulance services or emergency medical services are dispatched through 911 and are provided by several companies on a rotating basis. The nearest hospital emergency room is Mad River Community Hospital located at 3800 Janes Road in Arcata California. Emergency calls are routed through the Sheriff’s Office and CHP to the respective fire department. Response times to the project site are approximately 3 to 4.5 minutes, although this depends on available resources.

3.11 NOISE

Noise is generally defined as unwanted sound. Sound, traveling in the form of waves from a source, exerts a sound pressure level (referred to as sound level) which is measured in decibels (dB), with zero dB corresponding roughly to the threshold of human hearing and 120 to 140 dB corresponding to the threshold of pain.

Environmental noise is typically measured in A-weighted decibels (dBA). A dBA is a dB corrected for the variation in frequency response of the typical human ear at commonly encountered noise levels. In general, A-weighting of environmental sound consists of evaluating all of the frequencies of a sound, taking into account the fact that human hearing is less sensitive at low frequencies and extremely high frequencies but is more sensitive in mid-range frequency. Table 3-12 presents examples of noise sources and corresponding sound level.
3.0 Affected Environment

### TABLE 3-12
TYPICAL SOUND LEVELS OF COMMON NOISE SOURCES

<table>
<thead>
<tr>
<th>Decibels (dBA)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>130</td>
<td>Threshold of pain</td>
</tr>
<tr>
<td>120</td>
<td>Jet aircraft take-off at 100 feet</td>
</tr>
<tr>
<td>110</td>
<td>Riveting machine at operators position</td>
</tr>
<tr>
<td>100</td>
<td>Shot-gun at 200 feet</td>
</tr>
<tr>
<td>90</td>
<td>Bulldozer at 50 feet</td>
</tr>
<tr>
<td>80</td>
<td>Diesel locomotive at 300 feet</td>
</tr>
<tr>
<td>70</td>
<td>Commercial jet aircraft interior during flight</td>
</tr>
<tr>
<td>60</td>
<td>Normal conversation speech at 5-10 feet</td>
</tr>
<tr>
<td>50</td>
<td>Open office background level</td>
</tr>
<tr>
<td>40</td>
<td>Background level within a residence</td>
</tr>
<tr>
<td>30</td>
<td>Soft whisper at 2 feet</td>
</tr>
<tr>
<td>20</td>
<td>Interior of recording studio</td>
</tr>
</tbody>
</table>

**SOURCE:** Bollard and Brennan, 2002.

3.11.1 NOISE EXPOSURE AND COMMUNITY NOISE

An individual’s noise exposure is a measure of noise over a period of time. A noise level is a measure of noise at a given instant in time. However, community noise varies continuously over a period of time with respect to the contributing sound sources in the community noise environment. What makes community noise constantly variable throughout a day is the addition of short duration, single event noise sources such as aircraft flyovers, vehicle passbys, sirens, etc., which are readily identifiable to the individual. These successive additions of sound to the community noise environment varies the community noise level from instant to instant, requiring the measurement of noise exposure over a period of time to legitimately characterize a community noise environment and evaluate cumulative noise impacts. This time-varying characteristic of environmental noise is described using statistical noise descriptors. The noise descriptors used in this EA are summarized below:

- **Leq:** the equivalent sound level is used to describe noise over a specified period of time, typically one hour, in terms of a single numerical value. The Leq is the constant sound level which would contain the same acoustic energy as the varying sound level, during the same time period (i.e., the average noise exposure level for the given time period).
- **Ldn:** 24-hour day and night A-weighed noise exposure level which accounts for the greater sensitivity of most people to nighttime noise by weighting noise levels at night (“penalizing” nighttime noises). Noise between 10:00 PM and 7:00 AM is weighted (penalized) by adding 10 dB to take into account the greater annoyance of nighttime noises.
- **CNEL:** similar to the Ldn, the Community Noise Equivalent Level (CNEL) adds a 5 dB “penalty” for the evening hours between 7:00 PM and 10:00 PM in addition to a 10 dBA penalty between the hours of 10:00 PM and 7:00 AM.

A wide variation in individual thresholds of annoyance exists, and different tolerances to noise tend to develop based on an individual’s past experiences with noise. Thus an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one
has adapted: the “ambient noise” level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it. With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1 dBA cannot be perceived;
- Outside of the laboratory, a 3 dBA change is considered a just-perceivable difference;
- A change in level of at least 5 dBA is required before any noticeable change in human response would be expected; and
- A 10 dBA change is subjectively heard as approximately a doubling in loudness, and can cause adverse response, depending on the existing ambient noise level.

3.11.2 FEDERAL NOISE STANDARDS

The Department of Housing and Urban Development (HUD), a federal agency, considers outdoor day-night noise exposure up to 65 dBA, L_{dn} as the maximum acceptable noise level under most circumstances (24 CFR Part 51, Subpart B). This is a 24-hour average, which is often considered in the approval of project applications.

3.11.3 SENSITIVE RECEPTORS

Some land uses are considered more sensitive to noise than others due to the amount of noise exposure (in terms of both exposure duration and insulation from noise) and the types of activities typically involved. Residences, motels and hotels, schools, libraries, churches, hospitals, nursing homes, auditoriums, and parks and other outdoor recreation areas generally are more sensitive to noise than are commercial and industrial land uses. A sensitive receptor is defined as any living entity or aggregate of entities whose comfort, health, or well-being could be impaired or endangered by the existence of the criteria pollutant, whether it is air emissions or noise, in the atmosphere.

Overall, the project site vicinity is characterized by open space coastal bluffs, Trinidad Head to the west, Trinidad State Beach to the northwest, Trinidad Bay to the southeast, and single family residential house to the north and northeast. These single family residences, located immediately outside the project area, are the nearest sensitive noise receptors. The nearest school (Trinidad Elementary School) is located approximately 0.2 mile northeast of the project site. With the exception of special-status species, discussed above in Section 3.4, there are no other noise sensitive receptors in the vicinity of the project site.

3.11.4 EXISTING NOISE SOURCES

The noise environment surrounding the project site is influenced primarily by vehicle, harbor, and tide generated noise. Noise levels are increased during parts of the year when local fishery seasons open (e.g., salmon, Dungeness crab, etc.). Similarly, increased parking lot activity (e.g., conversations, car door closing, unloading small watercraft) contributes to the existing environment, especially with the onset of favorable weather during the summer and fall months. A 19-hour and 15-minute recording was taken in the
vicinity of the project site. The 19-hour recording as taken immediately east of bait shop between the storage shed and the old boat launch near Trinidad Bay. The 15-minute recording was taken above the harbor along the bluff immediately south of the nearest single-family home. The 15-minute recorded noise measurement was a CNEL of 70.4 dB. The recorded noise measurement for the 19-hour recording was a CNEL of 78.3 dB. The Trinidad General Plan, which has adopted the HUD Standards for noise pollution, specifies the allowable noise levels for various areas based on their zoning designation. Allowable noise levels for commercially zoned areas are specified as up to 75 dBA during the day (6:00 AM to 10:00 PM) and up to 65 dBA during the night (10:00 PM to 6:00 AM) (City of Trinidad, 1980). It should be noted that while the intent was to collect the noise measurements during crab season, the season was postponed due to environmental hazards and no fishing or crabbing operations were occurring during the time the noise measurements were collected.

3.12 HAZARDOUS MATERIALS

A Phase I Environmental Site Assessment (Phase I ESA) of the Subject Property was prepared for the project parcels (Appendix F). As documented in the Phase I ESA, the project site is listed on the SWRCB LUST, EPA US BROWNFIELDS, SWEEPS UST, EPA FINDS, EPA CUPA, HAZNET, HIST CORTESE, and NPDES lists. Also, the Phase I ESA notes that there were seven above ground septic holding/treatment tanks located south of the public restroom/storage building and situated behind a chain linked fence. No visible leaks were identified and the system appeared to be working normally. Multiple electrical boxes were located on the property but no transformers were located on the site. Behind the above ground septic holding/treatment tanks, a newer propane tank was identified along with nine plastic 55-gallon barrels currently used for holding bags of trash. No hazardous leaks were identified from the propane tank or the trash bins. A “North State Rendering Co., Inc.” grease bin was located behind the restaurant and no leaks were noticed. Next to the grease bin, two 55-gallon metal drums were noted, which appear to be used for storage of grease. Some grease appeared to have leaked onto the concrete pad where the drums and grease container were stored.

The Phase I ESA indicates that one listing on the Subject Property near the center on the northern portion of the paved parking lot indicates previous hazardous materials releases. However, the releases are reported as closed cases. In addition, the listing is a historical NPDES permit holder (Permit number: CA0024571) which includes an industrial facility that treats and disposes liquid or semisolid wastes from any servicing, producing, manufacturing, or processing operation of whatever nature. This listing does not constitute an REC because it has been remediated. Its active listing for a NPDES permit does not pose a significant risk to the Subject Property.

3.13 VISUAL RESOURCES

The visual characteristics of the project site are typical of coastal bluff, beach, bay, and harbor areas. The vegetation component of the scenery is dominated by northern coastal scrub and grasslands. A boat launch,
restaurant, bait shop, storage facility, restrooms, wastewater treatment tanks, and a shed converted into the harbor manager’s office exists in the paved portions of the site. Additionally, the Trinidad Pier, reconstructed in 2002, protrudes into Trinidad Bay just west of Little Head. There is also one single family residence along the southwestern boundary of the site, which is currently owned by the Tribe.

The project site is located west of Highway 101 and is nestled with Trinidad Bay. Although the southern portion of the project site is lower than the area that would be developed, the area is not visible from Highway 101 because the corridor along Highway 101 between the project site is developed with residential housing and buildings within the City. The area that would be developed is not visible from Highway 101 as there is a steep hill adjacent to the project site. Furthermore, the area to be developed currently consists of temporary structures and storage containers. Representative photos of the area to be developed with the visitor center are included in Photos 1 through 4 below.
3.0 Affected Environment

Photo 1: View to the north from the southern beach. Areas proposed for the visitor center located in the center of the photo.

Photo 2: View to the West from the coastal bluff. Proposed area for the visitor center shown in the center of the photo.
3.0 Affected Environment

Photo 3: View to the south from the Bay Street parking lot. Areas proposed for the visitor center include the tackle shop to the right and the storage shed behind and to the left of the tackle shop. The utility bay represented by the green grass will not be disturbed under the Proposed Project.

Photo 4: View to the east from the Seascape Restaurant. Areas proposed for the visitor center include the paved areas shown in the photo.
SECTION 4.0
ENVIRONMENTAL CONSEQUENCES

In this section, environmental consequences are described for project alternatives. Resource areas that are analyzed in this section include direct and indirect impacts to the resource settings addressed in Section 3.0. Direct impacts are those that are caused by the action and occur at the same time and place, while indirect impacts are caused by the action and occur later in time or further in distance, but are still reasonably foreseeable (Council on Environmental Quality, Regulation 1508.8). Cumulative effects and growth-inducing effects of the project alternatives are also assessed in this section for each of these resource areas. Note that, consistent with the CEQ’s NEPA Regulations Section 1508.8, the term “effects” is used synonymously with the term “impacts.”

4.1 ALTERNATIVE A – PROPOSED PROJECT

4.1.1 LAND RESOURCES

IMPACT CRITERIA

Alternative A would result in significant effects to land resources if construction or operation causes significant alterations to the site topography, significant soil erosion, or limits access to mineral resources of regional significance; or if geological/soil hazards associated with the existing setting would pose limitations to the development of Alternative A or pose a significant health hazard to new habitable structures.

TOPOGRAPHY

Alternative A would not result in substantial changes in the topography of the project site as development is limited to the existing parking lot, Bay Street, and the area adjacent to the restaurant that has been previously disturbed (refer to Photos 1 through 4 in Section 3.13). With gentle slopes between five to six percent, the area of development is at low risk for landslides. As noted in Section 2.2, design-level geotechnical specifications will be developed for the project prior to finalization of construction plans for the property. Therefore, no significant effect to, or resulting from, topography would occur as a result of Alternative A.

GEOLOGIC SETTING AND SEISMICITY

The project site is not located on any known “active” fault trace thus the risk of fault rupture is low. Regional faults may, however, produce strong ground shaking within the next 50 years. As discussed in
Section 2.2, the proposed facilities will conform to the seismic requirements of the California Building Code (CBC). Therefore, no significant effects due to geological or seismic conditions onsite would occur.

**SOILS**

Excavation within the parking lot and Bay Street to develop the stormwater improvements and construction of the proposed visitor center may expose soil and increase the risk of erosion to soils. General construction activities associated with grading and excavation reduce the integrity of the soil structure, increasing the likelihood of erosion from wind and/or stormwater runoff. With implementation of protective measures outlined in a SWPPP for reducing erosion during construction activities in accordance with the EPA’s NPDES General Construction Permit, which are listed as Mitigation Measure 5.1.1, implementation of Alternative A would result in no significant effects related to soil erosion.

**MINERAL RESOURCES**

The excavation within the parking lot and Bay Street to develop the stormwater improvements and development of the visitor center on previously graded land would not result in a loss of economically viable aggregate rock or diminish the extraction of important ores or minerals. Because there are no known or mapped mineral resources within the project site, development and use of the land would not affect the extraction of known mineral resources of importance to the surrounding communities. There are no abandoned mines, shafts, or tailing that would affect development.

**4.1.2 WATER RESOURCES**

**IMPACT CRITERIA**

Alternative A would result in significant effects to water resources if construction or operation would result in direct significant effects to drainage patterns resulting in off-site flooding, floodplain management, and/or cause an exceedance of applicable water quality criteria. For groundwater resources, Alternative A is analyzed to determine if either construction or operation would result in a significant decline in groundwater levels, a significant decline in groundwater recharge rates, and/or cause an exceedance of applicable groundwater quality criteria.

**SURFACE WATER, DRAINAGE, AND FLOODING**

Alternative A would decrease the coverage of impervious surfaces on the property through the replacement of a portion of the existing asphalt with permeable pavement. Currently, impervious surfaces result in increased peak flows and increased total discharge of stormwater (which include motor vehicle contaminants from the parking lot) to the Trinidad Bay. As stated in Section 3.3, the project site, and specifically the development area, does not contribute to an inland watershed and therefore would have no impact on inland surface waters. To reduce the impacts relating to discharges to the bay, stormwater flow reduction and quality improvement features have been incorporated into the project design, as discussed in Section 2.2. The new design features would divert a portion of the stormwater that currently discharges
4.0 Environmental Consequences

directly into the bay without pretreatment into cisterns, dry wells, and rain gardens. Additionally, stormwater generated within the parking lot would be diverted to a bioswale, which would improve water quality prior to discharge to the bay. Implementation of Alternative A would thereby improve stormwater conditions compared to existing conditions and eliminate the direct discharges of untreated stormwater from the parking lot to the bay. Therefore, there would be a beneficial impact from Alternative A related to stormwater runoff.

The project site is located outside of the Federal Emergency Management Agency 100-year floodplain. There would be no significant effects due to flooding as a result of Alternative A.

**WATER AND GROUNDWATER SUPPLIES**

Water demands of Alternative A would be minimal as the visitor center would include one new employee, one restroom facility, one employee sink, and no other amenities that would require additional water supply. The existing water supply from the City would meet the visitor center needs through connection to existing piping to the restaurant located adjacent to the proposed development. The City has enough capacity to accommodate Alternative A (Buckman, 2016). The City currently uses surface water diversions to meet potable water demands and therefore no groundwater would be extracted to meet the needs of the project. No significant effects to water or groundwater supply would occur as a result of Alternative A.

**WASTEWATER TREATMENT AND DISPOSAL**

Wastewater generation from Alternative A would be minimal with the addition of one employee restroom. Wastewater treatment would have an approximate average peak flow of 30 gallons per day (Table 4.1-1).

| Description            | Occupancy | Units | Average Peak Daily Flow per Unit (gpd/Unit)$^1$ | Average Daily Flow for Project (gpd) | Average Peak Daily Flow for Project (gpd)$^1$
|------------------------|-----------|-------|-----------------------------------------------|-------------------------------------|-----------------------------------------------
| Interpretive Visitor Center | 1         | Persons | 30$^2$                                      | 20                                  | 30                                            |
| **Total Wastewater Flows** |           |        |                                              |                                     |                                               |

$^1$ Assumed 1.5 peak day peaking factor
$^2$ Based on 20 gpd per person

Primary treatment of wastewater would be provided by existing above ground treatment tanks which allow time and space for heavy solids and light grease to separate from wastewater. As discussed in Section 2.2, the above ground tanks have a capacity of approximately 35,000 gallons per day to accommodate Alternative A. The system is currently in permit compliance and the additional 30 gallons of peak daily flow would not cause the existing system to operate under upset conditions (backflow, reduced treatment efficiency, etc.). Effects from wastewater under Alternative A would be less than significant.
4.0 Environmental Consequences

**WATER QUALITY**

*Construction*

Construction activities under Alternative A would include ground disturbing activities such as grading and excavation, which could lead to erosion of topsoil. Erosion from the construction site could increase sediment discharge thereby degrading the water quality of Trinidad Bay. Construction activities would also include the routine use of potentially hazardous materials such as concrete washings, oil, and grease, which may spill onto the ground and be picked up by stormwater. Release of pollutants on the project site may allow for pollutants to be carried with stormwater to the bay, which could be a potentially significant effect.

Sediment and erosion discharge into navigable (surface) waters of the U.S. is prohibited by the Federal Clean Water Act (CWA) (1972, with modifications in 1977, 1981, and 1987), which establishes water quality goals for sediment control and erosion prevention. One of the mechanisms for achieving the goals of the CWA is the National Pollutant Discharge Elimination System (NPDES) permitting program, administered by the USEPA. As part of the NPDES General Construction permit, a Stormwater Pollution Prevention Plan (SWPPP) must be prepared and implemented. The SWPPP must make provisions for (1) erosion prevention and sediment control; and (2) control of other potential pollutants. Construction of Alternative A would require a NPDES permit from the USEPA.

Mitigation has been included in Section 5.2 to ensure appropriate measures and best management practices (BMPs) are incorporated into the SWPPP to reduce entrainment of construction-related contaminants into stormwater that reaches Trinidad Bay. In addition, an Erosion and Sediment Control Plan has been developed for the visitor center and is included as Sheet c7 of Appendix B. With incorporation of the mitigation and the implementation of the Erosion and Sediment Control Plan, effects from construction of Alternative A on soils and geology would be less than significant.

*Operation*

With the incorporation of stormwater improvements, Alternative A would result in a decrease in adverse water quality impacts. The improvements would result in reduced discharges of higher quality stormwater compared to existing conditions. To further reduce the effects of surface runoff, BMPs and measures have been included as mitigation measures in Section 5.2. With development of the proposed improvements and implementation of mitigation presented in Section 5.2, impacts to surface water quality during operation would be reduced resulting in a beneficial impact compared to existing conditions.

4.1.3 **AIR QUALITY AND GREENHOUSE GAS**

*Impact Criteria*

*Criteria Air Pollutants*

Adverse effects to ambient air quality would result if either construction or operation of Alternative A would result in non-conformance to an applicable State Implementation Plan (SIP) for National Ambient
Air Quality Standards (NAAQS) compliance or result in emissions of significant levels that would significantly affect the air quality of a federal Class I area. The General Conformity Rule applies to Federal actions that would cause emissions of criteria air pollutants (CAPs) in air basins designated as non-attainment or maintenance areas under the NAAQS. For federal actions that fall under this category and that emit CAPs above de minimis levels, a General Conformity Determination is required to assess the federal action’s compliance with the SIP. The project parcels are located within an air basin that is classified as attainment/unclassified for all the CAPs and, accordingly, a General Conformity Determination is not required. Therefore, for the purposes of this analysis, the least stringent de minimis thresholds from the General Conformity rule have been selected as impact criteria to determine if emissions from Alternative A has the potential to result in non-conformance to an applicable SIP. Accordingly, the least stringent de minimis thresholds in the rule are 100 tons per year for ozone precursors (ROG and NOx), carbon monoxide (CO), and particulate matter 10 and 2.5 microns in size (PM$_{10}$ and PM$_{2.5}$).

Climate Change and Greenhouse Gas Emissions

Climate change is a global phenomenon attributable to the sum of all human activities and natural processes worldwide. As such, it is not analytically possible to link specific climate change phenomena to Alternative A. Accordingly, Alternative A’s impact on climate change is most appropriately addressed in terms of the incremental contribution to a global cumulative impact and is therefore presented in Section 4.3.3. This approach is consistent with the view articulated in the following quote provided in the Intergovernmental Panel on Climate Change (IPCC) report (IPCC, 2007). According to the IPCC, “difficulties remain in attributing temperature on smaller than continental scales and over time scales of less than 50 years. Attribution at these scales, with limited exceptions, has not yet been established” (IPCC, 2007).

Methodology

Criteria Air Pollutants

Project-related air quality impacts fall into two categories: short-term impacts due to construction, and long-term impacts due to project operation. Short-term construction activities would result in the generation of PM$_{10}$ and PM$_{2.5}$ from grading and demolition activities and ROG, NOx, and CO from diesel-fired construction equipment. Long-term operation of Alternative A would result in motor vehicle use. Motor vehicle use would contribute to ozone, the significance of which is determined through the generation of ROG, NOx, and CO pollution.

Construction

Construction emissions for Alternative A were estimated using California Emissions Estimator Model (CalEEMod), which is the latest version of the air quality model approved by the EPA. CalEEMod provides default values when site-specific inputs are not available. The default values are provided in Appendix B. A typical contingent of construction machinery was assumed based on the site topography. Construction is assumed to begin in spring of 2017 and continue for four to five months. The following site-specific traffic inputs and assumptions were used for the purposes of air quality modeling:
4.0 Environmental Consequences

- Construction will occur an average of 22 days per month.
- Construction will result in a maximum disturbance of 1.03 acres.
- CalEEMod default construction equipment list was used.
- Project analyzed construction of one visitor center and infrastructure.

**Operation**

CalEEMod was used to estimate emissions associated with operation of Alternative A. Input values for the model included CalEEMod defaults and site-specific data. Operational emissions results from CalEEMod are presented below, and CalEEMod output files are included in Appendix G.

**Climate Change and Greenhouse Gas Emissions**

No impact thresholds have been established by the City, County, Council on Environmental Quality (CEQ), U.S. Environmental Protection Agency (USEPA), or any other federal agency for climate change and greenhouse gas (GHG) emissions. As discussed in Section 3.3.2, federal guidance on climate change provides that 25,000 metric tons of GHG emissions per year may be a helpful guideline to assist lead agencies in making informed decisions on climate change impacts resulting from a project subject to NEPA. For the purposes of this analysis, the draft quantification and assessment threshold of 25,000 metric tons per year of carbon dioxide equivalent (CO2e) emissions as recommended by CEQ is utilized to determine if Alternative A would be considered a major source emitter of GHG to the environment, and thereby result in a significant effect to air quality.

**Air Quality Impacts**

**Construction Emissions**

Construction of Alternative A and associated facilities would generate CAPs through the utilization of construction machinery (primarily diesel operated), construction worker automobiles (primarily gasoline operated), through physical land disturbance, and construction of buildings. Construction typically proceeds in distinct phases: construction is initiated with grading, recontouring, and paving, which is then followed by erection of structures, and finally the finishing of those structures and infrastructure. Of these phases, land clearing can generate fugitive dust and diesel equipment emissions of 10 microns or smaller (PM10 and PM2.5). Construction and finishing of structures typically results in greater ROG and NOx emissions associated with diesel and gasoline combustion stationary equipment, mobile equipment, and employee vehicle trips. Alternative A annual construction emissions for each CAP are provided in Table 4.1-2.

Project emissions are below the General Conformity de minimis levels and therefore, construction of Alternative A would not cause an exceedance of NAAQS or conflict with the implementation of California’s SIP. The project site is within 100 kilometers (km) (62.1 miles) of a federal Class I area (the
Redwood National Park is located approximately 15 miles northeast). However, construction of Alternative A would not produce greater than 250 tons per year (tpy) of a regulated pollutant (Table 4.1-2), therefore Alternative A is not classified as a major source under the Prevention of Significant Deterioration (PSD) program, and no pre-construction review is required. BMPs provided in Section 2.2 would further minimize construction related emissions of CAPs. Construction of Alternative A would not result in significant effects associated with the regional air quality environment.

**TABLE 4.1-2**

<table>
<thead>
<tr>
<th></th>
<th>Tons per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Years</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>0.32, 2.01, 0.14</td>
</tr>
<tr>
<td>Highest Emission Year</td>
<td>0.32, 2.01, 0.14</td>
</tr>
<tr>
<td>De Minimis Levels</td>
<td>100, 100, 100</td>
</tr>
<tr>
<td>Exceeds De Minimis</td>
<td>No, No, No</td>
</tr>
</tbody>
</table>


**Operational Emissions**

Operational emissions would primarily be comprised of indirect mobile emissions associated with recreational visitor’s motor vehicle use. Visitor center area and energy source emissions associated with maintenance equipment, space heaters, and water heaters would contribute to operational emissions.

Default assumptions for trip generation rate, trip lengths, average trip speeds, and vehicle fleet for residential land uses, as presented in CalEEMod, were used to estimate project-related criteria emissions for the build out year of 2017, which provides a conservative estimate of project-related emissions.

**Table 4.1-3** summarizes project-related area, energy, and mobile source emissions. Project emissions are below the General Conformity *de minimis* levels and therefore, operation of Alternative A would not cause an exceedance of NAAQS or conflict with the implementation of California’s SIP. As with construction, operation of Alternative A would not be classified as a major source under the PSD program and no further review is required. BMPs are provided in Section 2.2 that would further reduce operational emissions. Operation of Alternative A would not result in significant effects associated with the regional air quality environment.

**TABLE 4.1-3**

<table>
<thead>
<tr>
<th></th>
<th>Tons per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sources</td>
<td></td>
</tr>
<tr>
<td>Area</td>
<td>0.01, 0.0, 0.0</td>
</tr>
<tr>
<td>Energy</td>
<td>0.0001, 0.0013, 0.0001</td>
</tr>
<tr>
<td>Mobile</td>
<td>0.01, 0.03, 0.01</td>
</tr>
<tr>
<td>Total Operational Emissions</td>
<td>0.02, 0.03, 0.01</td>
</tr>
<tr>
<td>De Minimis Level</td>
<td>100, 100, 100</td>
</tr>
<tr>
<td>Exceeds De Minimis</td>
<td>No, No, No</td>
</tr>
</tbody>
</table>

4.0 Environmental Consequences

4.1.4 Biological Resources

Impact Criteria

Significant effects to biological resources would result if Alternative A would:

- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites;
- Conflict with local policies or ordinances protecting biological resources;
- Have a substantial significant effect on federally protected wetlands as defined by Section 404 of the Clean Water Act through direct removal, filling, hydrological interruption, or other means;
- Have a substantial significant effect on species with special status under the federal Endangered Species Act (FESA);
- Have a substantial significant effect on habitat necessary for the future survival of such species, including areas designated as critical habitat by the U.S. Fish and Wildlife Service (USFWS) and areas designated as Essential Fish Habitat (EFH) by the National Marine Fisheries Service (NMFS); or
- Result in take of migratory bird species as defined by the Migratory Bird Treaty Act (MBTA) (16 USC §703-712).

Methodology

Biological resources were evaluated based on a comprehensive examination of the project parcels, including site survey, and the extent of habitats, wetland features, and potential occurrences of federal listed wildlife on or adjacent to the project site that would be affected by Alternative A.

Special-status Species

Alternative A would not result in a loss of habitat for a protected species by land, as the development area has been previously disturbed and paved and the remaining habitats on the site would be preserved as open space. No federally listed or federally recognized plant or wildlife species were identified on the project site during the site survey. Although no species were identified, the project site and surrounding vicinity has potential habitat for western lily, marbled murrelet, western snowy plover, and steller sea lion. These species are further addressed below.

Potentially suitable habitat for the western lily exists on the shoreline adjacent to and west of the vacation rental. This area is located outside of the development footprint to the west of the vacation home. This habitat would not be affected by the stormwater improvements or construction of the visitor center. The area is also distant from proposed uses of the property. Accordingly, operation of Alternative A would not
impact potentially suitable habitat for the western lily. Implementation of Alternative A would not significantly affect the western white lily.

Foraging habitat for marbled murrelet exists on the shoreline of the property just outside the development footprint. This area would not be affected by construction of Alternative A. Breeding habitats require old growth forests which are not found on or adjacent to the project site. Foraging habitat may be significantly affected by construction noise although the potential habitat is outside of the project footprint. Therefore, with the incorporation of Mitigation Measure 5.4.1, implementation of Alternative A would not significantly affect the marbled murrelet.

The western snowy plover requires shoreline for foraging and breeding habitat. The shoreline just outside of the development footprint is potential habitat for the western snowy plover and may be significantly affected by construction noise during breeding months. Therefore, with the incorporation of Mitigation Measure 5.4.1, implementation of Alternative A would not significantly affect the western snowy plover.

Potentially suitable habitat for steller sea lion exists adjacent to the project site on the shoreline and rock haul-outs near Trinidad Head and Trinidad Little Head. These areas are outside the development footprint of Alternative A. Direct effects to steller sea lion and potential habitat are less than significant, but the sea lion could be significantly affected indirectly by construction noise. Therefore, with the incorporation of Mitigation Measure 5.4.1, implementation of Alternative A would not have a significant effect on the steller sea lion.

WATERS OF THE UNITED STATES

No Waters of the U.S. occur on the project site. However, the Trinidad Bay is located adjacent to the project site and this is subject to jurisdiction of the U.S Army Corps of Engineers under Section 404 of the Clean Water Act. No discharge of dredged or fill material, or other disturbance, to wetlands or other waters of the U.S. would occur as a result of Alternative A. With the incorporation of Mitigation Measure 5.4.2 and the implementation of the Erosion and Sediment Control Plan, direct and indirect significant effects from construction of Alternative A to Trinidad Bay, including the kelp beds, would be less than significant.

MIGRATORY BIRDS

Potential nesting habitat for migratory bird species and other birds of prey is present within and in the vicinity of the proposed development. Construction activities could result in disturbance of nest sites for migratory birds and other birds of prey through temporary increases in ambient noise levels and increased human activity within the proposed action area. Such disruptions could result in the abandonment of active nests. Alternative A could result in take to migratory birds and other birds of prey if nests are determined to be active within areas anticipated to be disturbed and fledglings are harmed as a result. With the incorporation of the Mitigation Measure 5.4.3 for nesting birds, which entails conducting preconstruction surveys and avoidance measures, significant effects to migratory birds would be less than significant.
4.1.5 **Cultural Resources**

**Impact Criteria**

In accordance with Section 106 of the National Historic Preservation Act (NHPA), an adverse effect would result if implementation of Alternative A causes the physical destruction or alteration to all or part of, removal or change in the character to, or any deterioration or loss of integrity of an existing historic property.

**Cultural Resource Impacts**

No known historic properties exist within the proposed development areas. Known resources do occur within the areas designated as open space and therefore implementation of Alternative A would not adversely affect historic properties. Construction of Alternative A could significantly affect unknown sites during earth-moving activities. This is a potentially significant effect, however, with implementation of Mitigation Measures 5.5.1, significant effects to currently unknown cultural resources would be less than significant.

4.1.6 **Socioeconomic Conditions / Environmental Justice**

**Impact Criteria**

Implementation of Alternative A would result in significant effects to the socioeconomic and environmental justice settings of the region if implementation of the project would reduce the ability of the local populace to obtain basic public health and safety services through loss of economic revenues or result in disproportionate and significant effects to an identified minority or low-income community.

**Socioeconomic Impacts**

Alternative A would provide important socioeconomic benefits to the Tribe including recreational and cultural opportunities. The fee-to-trust transfer of the site would provide the Tribe with a larger land base within its aboriginal territory. The proposed visitor center would provide recreational and informational opportunities for the public to enjoy Trinidad Harbor and Trinidad Bay. The total combined taxes for the project parcels for 2014 were $46,063. Fiscal year 2015-2016 will generate approximately $51,600,000 in property tax revenue countywide (County of Humboldt, 2016). Accordingly, the loss of tax revenue from the trust transfer would be 0.09 percent of the anticipated total tax revenue, which is a *de minimis* property tax loss. Accordingly, the loss of the property taxes would not result in adverse socioeconomic impacts to the County.

**Environmental Justice Impacts**

An “Environmental Justice” analysis is required as part of NEPA compliance for the Proposed Action. This environmental justice analysis was prepared using guidance from the President’s Council on Environmental Quality for compliance with Executive Order 12898. The intent of this evaluation is to determine whether
the No-Action or Project Alternatives would impose “disproportionately high and adverse human health or environmental effects of (BIA’s) programs, policies, and activities on minority populations and low-income populations.”

The construction of the proposed visitor center and accompanying facilities would serve the Tribe with needed informational and recreational resources, which would be a beneficial effect to a minority population. No adverse health or environmental impacts to low-income and minority populations would occur as a result of the project alternatives; in fact, the effect on low-income and minority populations would be positive. Low-income and minority populations would not be disproportionately significantly affected. Alternative A would have no negative effect with regards to environmental justice.

4.1.7 TRANSPORTATION AND CIRCULATION

**IMPACT CRITERIA**

Implementation of Alternative A would result in significant effects to the transportation and circulation network if traffic generated by the project would cause traffic congestion or result in a substantial increase in the use of public transportation requiring additional infrastructure or vehicles.

**ROADWAY OPERATIONS**

An estimated 5 visitors per day during the peak season would be added to the roadway network as a result of Alternative A. With a *de minimis* increase in peak hour traffic (assuming one of the five daily trips occurs during a peak hour), implementation of Alternative A would not result in traffic congestion. Effects to roadway operations would be less than significant under Alternative A.

**TRANSIT SERVICE**

The Humboldt Transit Authority (HTA), which is operated by the County, provides bus transit service to residents throughout the County and provides connections to regional destinations via Greyhound Bus Lines. With the generation of one new full-time equivalent employee and five daily visitors, Alternative A would not increase ridership on County bus beyond capacity. Implementation of Alternative A would not result in an significant effect to public transportation and no new facilities or vehicle would be required to meet the needs of Alternative A.

4.1.8 LAND USE

**IMPACT CRITERIA**

Significant effects to land use would occur if Alternative A would be incompatible with land uses of adjacent properties in such a manner that would impede local and regional planning efforts or result in land used conflicts that would impede neighboring land use.
4.0 Environmental Consequences

**LAND USE CONSISTENCY**

Alternative A would be compatible with the mixed land use surrounding the project site which includes residential to the north and commercial to the west and southeast, and recreational/open space on all other sides. Once land is transferred into trust, County land use designations and zonings would no longer apply. As similar uses occur in the area and the property lacks a zoning classification, effects to land use would be less than significant. The proposed development is also consistent with the future zoning of the project site (harbor) proposed by the City (harbor). Therefore, land use effects from the implementation of Alternative A would be less than significant.

**Coastal Zone**

While the project site is located in the Coastal Zone, the proposed visitor’s center would replace existing commercial structures without resulting in a significant expansion in size and would continue to provide limited commercial operations in compliance with the Harbor designation under the recent draft update of the Local Coastal Plan (LCP) developed in accordance with the Coastal Zone Management Act (CZMA). The Tribe’s designation of a majority of the proposed trust action as open space along with the limited development and improvements to the stormwater conditions on the existing parking lot, would further the LCP Harbor designation of the project site by protecting recreational uses and protecting the coastal dependent and coastal related uses of the site. Accordingly, the proposed development and trust acquisition is consistent with the most current draft of the Local Coastal Plan (LCP). Implementation of Alternative A would result in a less-than-significant effect to coastal management.

**4.1.9 AGRICULTURE**

**IMPACT CRITERIA**

Significant effects to agriculture would occur if Alternative A would result in the conversion of agricultural lands designated as prime farmland, farmland of statewide importance, or farmland of local importance or impede local and regional planning efforts to protect agricultural lands.

**IMPACTS TO AGRICULTURE**

Alternative A would not convert any agricultural lands as none exist on or adjacent to the project site. Accordingly, none of the parcels within the project site are under Williamson Act contracts. No impacts to agricultural resources would occur from Alternative A.

**4.1.10 PUBLIC SERVICES**

**IMPACT CRITERIA**

To determine the impact on public services the water supply, municipal wastewater, solid waste facilities, energy and telecommunications, law enforcement, and fire protection and emergency medical services demands for Alternative A are considered. An significant effect would occur if project-related demands on
a public service would cause an exceedance of system capacities that result in the need for new facilities or substantial renovation to existing facilities, the construction of which has the potential to significantly affect the physical environment.

**WATER SUPPLY**

Alternative A would obtain water through existing on-site sources as described in Sections 2.2 and 4.1.2. Alternative A would have no impact on municipal water supplies (Buckman, Bryan; 2016). Implementation of the Proposed Action would not significantly affect City water operations and therefore no new off-trust land infrastructure or major renovation to any infrastructure would be required.

**WASTEWATER SERVICE**

Alternative A would utilize the existing capacity of the Tribe’s onsite wastewater treatment and disposal system. Alternative A would have no impact on municipal wastewater systems. Implementation of the Proposed Action would have no impact on City wastewater operations and therefore no new off-trust land infrastructure or major renovation to any infrastructure would be required.

**SOLID WASTE**

Potential solid waste streams from construction would include paper, wood, glass, aluminum and plastics from packing materials; waste lumber; insulation; empty non-hazardous chemical containers; concrete; metal, including steel from welding/cutting operations; and electrical wiring. All solid waste would be transferred to the Anderson Landfill located approximately 160 miles from Trinidad. Solid waste and recycling from operation of the visitor center would be collected by Humboldt Sanitation and would be transferred the waste to Anderson Landfill, which has a maximum capacity of 1,850 tons per day. Solid waste generated at the visitor center would be minimal as no commercial activities (i.e. restaurant, fishing equipment sales, etc.) would occur. Assuming a disposal rate of 4.3 lbs per person per day (EPA, 2013), and 1 employee and 5 visitors totaling 25 pounds of solid waste per day would be generated. This addition of solid waste is negligible and would not impact solid waste services or facilities.

**ELECTRICITY, NATURAL GAS, AND TELECOMMUNICATIONS**

Electrical and telephone infrastructure facilities are currently located on the project site. The project would not utilize natural gas. No adverse utility service impacts would occur and therefore no new off-trust land facilities or major renovation to any facilities would be required.

**LAW ENFORCEMENT**

Under Public Law 280, 18 U.S.C. §1162, the State of California and other local law enforcement agencies have criminal enforcement authority on Tribal lands. The Humboldt County Sheriff’s Department would continue to provide law enforcement services to the project site. The visitor center, which would result in a negligible increase in demands on the Humboldt County Sheriff’s Department from the anticipated peak of
five visitors per day. Calls for service would not be disproportionate to the existing number of calls for service to the harbor. No adverse law enforcement impacts would occur and therefore no new off-trust facilities or major renovation to any facilities would be required.

**FIRE PROTECTION AND EMERGENCY MEDICAL SERVICES**

Construction-related impacts include the potential fire threat associated with equipment and vehicles coming into contact with wildland areas. Construction vehicles and equipment such as welders, torches, and grinders may accidentally spark and ignite vegetation or building materials. The increased risk of fire during the construction of the proposed facilities would be similar to that found at other construction sites. Standard construction and operational measures have been incorporated into the project description to prevent fire from construction (Section 2.2). With these measures, effects would be less than significant.

As stated in Section 2.2, structural fire protection would be provided through compliance with Uniform Fire Code requirements for residences and commercial structures similar in size to the proposed facility and the Tribe would allow routine inspection by the Fire District. The scale of the development would not create significant demands on the Trinidad Volunteer Fire Department. Additionally, the project site is located in a State Responsibility Area, and California Department of Forestry and Fire Protection (CAL FIRE) would be reimbursed for wildland protection services as specified in the California Master Cooperative Wildland Fire Management and Stafford Act Response Agreement (2013). Due to the scale of development and existing agreements, the effects to fire protection services would be less than significant.

Increased emergency calls to 911 as a result of Alternative A would not result in delays in response times or the need for ambulances to be dispatched from more distant locations. Several ambulance companies provide services to the Trinidad area; therefore, it is not expected that increased demand for emergency medical services would create a significant effect. No adverse fire protection or emergency medical service impacts would occur and therefore no new off-trust facilities or major renovation to any facilities would be required.

**4.1.11 NOISE**

**IMPACT CRITERIA**

An significant effect would occur if project-related noise sources would cause an exceedance of the U.S. Department of Housing and Urban Development’s day-night equivalent (Leq) threshold of 65 decibels A-weighted (dBA) at the nearest sensitive receptor during construction or operation of Alternative A (HUD, 2016).

**CONSTRUCTION NOISE**

Site preparation and grading associated with Alternative A would temporarily generate noise levels above background levels. The closest sensitive receptors that would be exposed to noise during project
Construction noise impacts would be temporary and intermittent. The visitor center would be constructed separately from the parking lot improvements and the stormwater basins, which would reduce noise impacts. At 50 feet from the source, the loudest piece of equipment would have a daytime noise level of 80 dBA. Sources of noise attenuate (lessen) at a rate of 6 dBA to 7.5 dBA per doubling of distance from the source, depending upon environmental conditions (i.e., atmospheric conditions and noise barriers, either vegetative or manufactured, etc.) (Caltrans, 2009). At approximately 150 feet, the loudest equipment noise would attenuate to 62 dBA, resulting in levels below HUD’s thresholds. All noise sources would be greater than 150 feet from the sensitive receptor located adjacent to the northern boundary of the project site. Impacts to noise sensitive receptors would be further reduced by the height difference between the bluffs where the nearest sensitive receptor is located and the project site (nearly at sea level) and by limiting the hours of construction activities, locating noise emitting stationary equipment on the southern portion of the project site, and requiring construction equipment over 50 horsepower (hp) to be equipped with noise

<table>
<thead>
<tr>
<th>Construction Phase</th>
<th>Noise Level (dBA, L eq)³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Preparation</td>
<td>84</td>
</tr>
<tr>
<td>Grading</td>
<td>89</td>
</tr>
<tr>
<td>Foundations</td>
<td>78</td>
</tr>
<tr>
<td>Erection</td>
<td>85</td>
</tr>
<tr>
<td>Finishing</td>
<td>89</td>
</tr>
</tbody>
</table>

**SOURCE:** FHWA, 2006.

<table>
<thead>
<tr>
<th>Construction Equipment</th>
<th>Noise Level (dBA, L eq at 50 feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dump Truck</td>
<td>88</td>
</tr>
<tr>
<td>Portable Air Compressor</td>
<td>81</td>
</tr>
<tr>
<td>Concrete Mixer (Truck)</td>
<td>85</td>
</tr>
<tr>
<td>Dozer</td>
<td>87</td>
</tr>
<tr>
<td>Paver</td>
<td>89</td>
</tr>
<tr>
<td>Generator</td>
<td>76</td>
</tr>
<tr>
<td>Backhoe</td>
<td>85</td>
</tr>
</tbody>
</table>

**SOURCE:** FHWA, 2006.
reducing mufflers. Therefore, with the implementation of mitigation measures provided in Section 5.11, construction noise would not significantly affect the nearest sensitive receptors.

**OPERATIONAL NOISE**

The primary noise generated by Alternative A would be visitor traffic on Bay Street and regional traffic on Highway 101. With an estimated five visitors per day (peak), the increase in traffic from Alternative A would not result in an audible increase in roadway noise. Impacts from operational noise would be negligible and would not significantly affect the nearest sensitive receptors.

**4.1.12 HAZARDOUS MATERIALS**

**IMPACT CRITERIA**

Alternative A would be considered to have significant effects relating to hazardous materials if the project would expose persons to existing hazardous materials conditions that pose a threat to public health. Additionally, if a project would result in the use, handling, or generation of a regulated hazardous material, of which the regulated amounts would increase the potential risk of exposure resulting in reduction of quality of life or loss of life, then the project would have a significant effect.

**HAZARDOUS MATERIALS IMPACTS**

As discussed in Section 3.12, after further investigation of the characteristics of the listed sites no recognized environmental concerns were identified on or in the immediate vicinity of the Subject Property that would likely pose a significant impact to the environmental integrity of the project site. Therefore, development of Alternative A would not result in exposing employees or the public to existing hazardous materials conditions that pose a public threat.

During grading and construction, it is possible that hazardous materials, such as gasoline, diesel fuel, and hydraulic fluid, would be brought on site. Temporary bulk aboveground storage tanks as well as storage sheds/trailers would likely be used by various contractors for fueling and maintenance purposes. As with any liquid and solid, during handling and transfer from one container to another, the potential for an accidental release exists. Depending on the relative hazard of the hazardous material, if a spill were to occur of significant quantity, the accidental release could pose both a hazard to construction employees as well as the environment. Typical construction management practices limit and often eliminate the impact of such accidental releases, and with the BMPs listed in Section 2.2, impacts from hazardous materials would be less than significant.
4.1.13 VISUAL RESOURCES

**IMPACT CRITERIA**

Alternative A would result in significant effects to visual resources if development associated with the project would alter scenic vistas from a scenic highway or alter existing views through the development of land uses that are incompatible with the existing scenic character of the area.

**IMPACTS TO VISUAL RESOURCES**

The project site would be developed consistent with the existing facilities on the project site and new facilities would complement existing coastal development in the project area. Alternative A would protect the existing natural areas among the project parcels maintaining rural and coastal aesthetics of the project site. Alternative A would not result in any significant effects to scenic resources.

Lighting from the visitor center would be minimal. Light from the associated parking area would be downcast and directed to reduce off-site scatter. The project site is not visible from Highway 101 as coastal bluffs and residences currently shield views, and all vegetation would be maintained in a viewshed buffer (Figure 2-1). Residences to the north and east may have views of Alternative A, however the proposed development would be on existing paved surfaces and would result in a beneficial impact over the existing use of storage bins and temporary buildings. Residences to the north and east have unobstructed views of the parking lot, however, no significant changes in the visual character of the parking lot would occur from the development of the stormwater improvements. As discussed in Section 2.2, the Tribe would use downcast, external lighting which would not alter the visual aesthetics of the site. Development of the visitor center would be an improvement compared to the existing visual setting of the site, which includes temporary storage containers as shown in Photos 1 through 4 in Section 3.13. Given the relatively small area proposed for development and distance from existing residences to Alternative A, these facilities would be a small portion of the viewshed when compared with the expansive scenic resources in all directions (Trinidad Heads, Trinidad Bay, pier, City and associated residential architecture, and beaches and associated costal bluffs) and would be an improvement over existing conditions. The overall visual impact of Alternative A would be beneficial.

4.2 ALTERNATIVE B – NO-ACTION ALTERNATIVE

**IMPACT CRITERIA**

The impact criteria utilized to assess the environmental impacts of Alternative B are the same as those described under Alternative A.
4.2.1 **Land Resources**

Under Alternative B, the land would not be taken into trust and the proposed development would not occur. Land resources would not be significantly affected and no groundbreaking activities would result from the Alternative B.

4.2.2 **Water Resources**

Under Alternative B, the proposed development would not be developed and the potential impacts associated with construction would not occur. However, the stormwater improvements would also not be developed under Alternative B and therefore none of the stormwater flow reduction or quality improvement features from stormwater generated on the existing parking lot would be developed. Stormwater from Bay Street and the parking lot would continue to sheet flow directly into Trinidad Bay and the existing infiltration chambers would continue to only receive stormwater generated on the pier.

4.2.3 **Air Quality**

Under Alternative B, the project site would continue to be utilized for recreational, commercial, and mixed use, and none of the air quality emissions identified for Alternative A would occur. The Tribe currently has no existing development plans for the project site if the Proposed Action is not approved and therefore no significant effects to air quality would result from the implementation of Alternative B.

4.2.4 **Biological Resources**

Existing habitat would not be disturbed under Alternative B. The site would continue to be used for recreational, commercial, and mixed uses. No special-status species would be affected. Stormwater would continue to be untreated and discharge from the site into the Pacific Ocean, potentially harming wildlife and ecosystems.

4.2.5 **Cultural Resources**

Under Alternative B, the project site would remain as recreational, commercial, and mixed uses. There would be no land disturbance activities under Alternative B and therefore there would be a minimal potential to identify and harm the integrity of previously undiscovered cultural resources.

4.2.6 **Socioeconomic Conditions/Environmental Justice**

Under Alternative B, the site would not be placed in trust for the benefit of the Tribe and the proposed development would not be constructed. The Tribe would not receive any of the socioeconomic benefits associated with Alternative A. In addition, the County would not experience the 0.09 percent decrease in projected 2016 property tax revenue.
4.2.7 TRANSPORTATION AND CIRCULATION

Under Alternative B, there would be no increase in vehicular traffic on project area roadways. Traffic operations, including the LOS, bicycle and pedestrian system, and transit service, would remain the same as described in Section 3.7 under Alternative B.

4.2.8 LAND USE

Under Alternative B, the project site would remain under the jurisdiction of the County and designated for commercial, harbor land use. No land use consistency or compatibility impacts would occur under this alternative.

4.2.9 AGRICULTURE

No agricultural resources are located on the project site and no loss of resources would occur as Alternative B.

4.2.10 PUBLIC SERVICES

Alternative B would not increase demands on public services. The project site would continue to utilize the Tribe’s on-site wastewater treatment and disposal system and obtain water from the City. Law enforcement would remain under the jurisdiction of the County Sheriff’s Department and fire suppression under the jurisdiction of the Trinidad Volunteer Fire Department.

4.2.11 NOISE

Under Alternative B, the project site would continue to be used for commercial, recreational, and mixed uses. With regard to noise, the project site would not be a source of transportation and/or non-transportation noise. No impacts would occur under Alternative B.

4.2.12 HAZARDOUS MATERIALS

No hazardous materials issues would occur as a result of Alternative B.

4.2.13 VISUAL RESOURCES

Under Alternative B, the project site would remain as commercial and recreational developed facilities. Any future development of the project site would be required to meet County design standards.

4.3 CUMULATIVE EFFECTS

Cumulative impacts are defined in 40 C.F.R. 1508.7 as the impacts:
... on the environment which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless what agency (federal or non-federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Based on zoning designations within the County, there are no approved reasonably foreseeable future commercial or housing projects in the immediate five-mile vicinity of the project site.

**IMPACT CRITERIA**

An adverse cumulative impact would result if the impacts of either Alternative A or B in conjunction with impacts of past, present, and reasonably foreseeable future actions in the project area would result in significant effects according to the impact criteria presented under Alternative A.

**4.3.1 LAND RESOURCES**

Potential project impacts to land resources (topography, soils, seismicity, and mineral resources) are related to measures required to ensure proper design for site conditions. With the mitigation and project design provisions for Alternative A and no action under Alternative B, no potential cumulative impacts are relevant to this issue area. The impacts to land resources under Alternatives A and B are not cumulatively considerable.

**4.3.2 WATER RESOURCES**

Alternative A and any other projects that may be constructed in the vicinity of the project parcels are required to comply with the Clean Water Act as it relates to stormwater and point-source discharges. Compliance with California and USEPA stormwater pollution prevention requirements and implementation of the mitigation measures outlined in Section 5.2 would prevent off-site development and concurrent development associated with Alternative A from causing cumulatively adverse stormwater related impacts. Alternative B would result in a cumulative environment consistent with current conditions at the project site.

Impacts to the groundwater basin would not be cumulatively considerable under Alternative A, as the increase in water demand would be met by the surface water rights of the City. Furthermore, there are no other planned developments that would utilize the on-site WWTP and therefore impacts relating to wastewater are not cumulatively considerable under Alternatives A or B.

**4.3.2 AIR QUALITY**

*Methodology*

CalEEMod was used to estimate CAP and GHG emissions associated with construction and operation of Alternative A; input values for the model included CalEEMod defaults and site specific data. Emissions
4.0 Environmental Consequences

results from CalEEMod are presented below, and CalEEMod output files are included within Appendix G. Under Alternative B, air quality emissions and the cumulative environment required to be assessed by regional development projects would be consistent with the existing conditions assessed in Section 3.3. Accordingly, Alternative B would not result in cumulatively considerable air quality impacts and therefore impacts to air quality from the implementation of Alternative B need not be further addressed.

Criteria Air Pollutants

Cumulative impacts to the air basin are addressed within the requirements of the CAA and the General Conformity Rule. Using the significance thresholds in the General Conformity Rule and the CEQ, Alternative A does not reach the de minimis levels required for federal conformity and would not result in changing the basin’s air quality designation. Project operational emissions are either mobile, area, energy, water, or waste related. Primary criteria pollutant emissions for these sources are NOx, ROGs, and PM10. Given that the area is in attainment for CAPs and emissions would not significantly affect air quality, there is no potential for an adverse cumulative effect to air quality. The recommended BMPs related to dust, CAPs, and DPM emissions included in Section 2.2 would further reduce cumulative impacts to regional air quality.

Climate Change and Greenhouse Gas Emissions

Carbon Dioxide Equivalence

To provide a comparative analysis between sources of GHGs, the carbon dioxide equivalent (CO2e) of each GHG is assessed. CO2e is a method by which emissions of individual GHGs are normalized in relation to heat-capturing abilities. As shown in Table 4.3-1, carbon dioxide (CO2) is used as the baseline for GHG inventories and is given a CO2e value of 1. Other significant GHGs are assigned a CO2e ratio based on their ability to trap heat in comparison with that of CO2. For example, methane (CH4) has the ability to capture 25 times more heat than CO2 and therefore is given a CO2e value of 25. To calculate total GHG emissions for a source, estimated emissions for each GHG are multiplied by the corresponding CO2e value, and the converted values are then summed for a total CO2e emissions rate. Establishing a comparable total emissions rate provides a means for comparing emissions sources and presenting the relative overall effectiveness of emission reduction measures for reducing project contributions to global climate change.

Emissions Estimate

As discussed in Section 3.3.2, federal guidance on climate change provides that a threshold of 25,000 MT of GHG emissions per year may be a helpful guideline to assist lead agencies in making informed decisions on climate change impacts resulting from a project subject to NEPA. For the purposes of this analysis for Alternative A, the draft quantification and assessment threshold of 25,000 MT per year of CO2e emissions as recommended by CEQ is utilized. Direct CO2e emissions would be well below the threshold amount, as would indirect emissions (Table 4.3-2). GHG emissions would not exacerbate climate change. Therefore, implementation of Alternative A would not cause an adverse affect to global climate change. BMPs are provided in Section 2.2 that would further reduce GHG emissions of Alternative A.
### TABLE 4.3-1
GREENHOUSE GAS CO₂ EQUIVALENT

<table>
<thead>
<tr>
<th>Gas</th>
<th>CO₂e Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO₂</td>
<td>1</td>
</tr>
<tr>
<td>CH₄</td>
<td>25</td>
</tr>
<tr>
<td>N₂O</td>
<td>298</td>
</tr>
<tr>
<td>HFCs/PFCs¹</td>
<td>12-14,800</td>
</tr>
<tr>
<td>SF₆¹</td>
<td>22,800</td>
</tr>
</tbody>
</table>

NOTES: CO₂e = Carbon dioxide equivalent

¹ High-global warming potential pollutants

CH₄ = methane, N₂O = nitrous oxide

HFCs/PFCs = hydroflourocarbons/
perflourocarbons

SF₆ = sulfur hexafluoride

### TABLE 4.3-2
ALTERNATIVE A GHG EMISSIONS

<table>
<thead>
<tr>
<th>Sources</th>
<th>GHG Emissions in CO₂e (MT/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Direct</strong></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>19.62¹</td>
</tr>
<tr>
<td>Area</td>
<td>0.00005</td>
</tr>
<tr>
<td><strong>Indirect</strong></td>
<td></td>
</tr>
<tr>
<td>Mobile</td>
<td>5.09</td>
</tr>
<tr>
<td>Energy</td>
<td>12.58</td>
</tr>
<tr>
<td>Water</td>
<td>0.80</td>
</tr>
<tr>
<td>Waste</td>
<td>0.55</td>
</tr>
<tr>
<td><strong>Total GHG Emissions</strong></td>
<td><strong>38.64</strong></td>
</tr>
</tbody>
</table>

¹ Amortized over 10 years.


### 4.3.4 BIOLOGICAL RESOURCES

Potential cumulative effects to biological resources on the project site will be reduced to a less-than-significant level through measures incorporated into project construction and design, as discussed in Sections 2.2 and 2.3. Similarly, all other development in the area affecting these resources is limited in scope by land use restrictions within the local coastal plan for the coastal zone and City zoning ordinance. Allowed development within the project area will be required to mitigate impacts affecting biological resources, according to the applicable provisions of federal, State, and local laws, such as the Clean Water Act and the Endangered Species Act. Under Alternative B, cumulative impacts to biological resources
would be consistent with the existing conditions presented in Section 3.4. Therefore cumulative effects to biological resources would be less than significant as a result of Alternative A.

4.3.5 CULTURAL RESOURCES

Protection measures for potential impacts to unknown cultural resources have been included in Section 5.5 for Alternative A. Similarly, all other development in the area affecting these resources are limited in scope by land use restrictions within the local coastal plan for the coastal zone and City zoning ordinance. Cultural resource protection measures are required for all development in the City and County to comply with City/County policies, the NHPA, NEPA, and the California Environmental Quality Act. Under Alternative B, no ground disturbance would occur and therefore no cumulatively considerable impacts would result from the implementation of Alternative B. No cumulative impacts to cultural resources would occur as a result of Alternatives A or B.

4.3.6 SOCIOECONOMIC CONDITIONS / ENVIRONMENTAL JUSTICE

Alternative A will contribute important socioeconomic benefits to the Tribe. Since there are no foreseeable commercial development or housing projects in the vicinity of the project parcels, cumulative property tax impact of Alternative A is expected to be similar in magnitude as the impact analyzed in Section 4.1.6. Any additional development within the project vicinity would be required to conform to existing County zoning, pay applicable County fees, and operate according to Use Permit conditions set by the County. Under Alternative B, socioeconomic conditions would be consistent with those presented in Section 3.6. No adverse cumulative socioeconomic impacts are anticipated from the implementation of Alternative A or B.

As noted in Sections 4.1.6 and 4.2.6, the project alternatives are not anticipated to result in an adverse environmental justice impacts. As Alternative A would benefit a minority group (the Tribe), the environmental justice impacts would not be cumulatively considerable to potential significant effects of surrounding development. Under Alternative B, cumulative impacts regarding environmental justice would be consistent with the existing conditions presented in Section 3.6

4.3.7 TRANSPORTATION AND CIRCULATION

The expected trips generated by Alternative A are negligible and not cumulatively considerable when considered in the context of other new traffic in the area. Accordingly, implementation of Alternative A would not have an significant effect on cumulative traffic conditions.

No development or changes in land use are proposed under Alternative B. Accordingly, no new trips would be generated and no cumulatively considerable impacts would result from the implementation of Alternative B. Accordingly, impacts to transportation and circulation from the implementation of Alternative B need not be further addressed.
4.0 Environmental Consequences

4.0.8 Transit Service

In the cumulative condition Alternatives A and B would not noticeably increase ridership on County bus and transit service; therefore, an adverse affect to public transit would not occur.

4.3.8 Land Use

No changes in land use are foreseen to occur as a result of Alternative A or B. As such, the project would not result in changes to local land use patterns that would be cumulatively considerable with surrounding development. Any changes to area resource use patterns would be attributable solely to County/City policies.

4.3.9 Agriculture

Alternatives A and B would not remove any agricultural lands or resources as none exist on the project site or adjacent to the project site. None of the parcels within the project site are under Williamson Act contracts. No cumulatively considerable impacts to agricultural resources would occur from Alternative A or B.

4.3.10 Public Services

Alternatives A and would utilize the existing on-site wastewater systems, thus there would be no cumulatively considerable impacts to these municipal services. All other public services would be accommodated by existing and planned public services. As development of other areas continues, the combined need for public services may create a cumulative impact. However, all future land uses in the region will be subject to approval by local governments. As a result, the project alternatives will not result in substantial cumulative impacts to public services.

No development or changes in land use are proposed under Alternative B. Accordingly, no changes to the existing demands for public services would occur and no cumulatively considerable impacts would result from the implementation of Alternative B.

4.3.11 Noise

Generally, noise increases as areas are developed. Alternative A would increase noise levels through increased traffic and operational activities. However, Alternative A would not generate a level of traffic that would be an audible increase to the ambient noise level (one trip every two hours). Therefore, traffic noise would not result in a significant effect to surrounding residences. No additional development is planned in the immediate vicinity of the project site that would contribute substantially to the long-term cumulative noise environment.
No development or changes in land use are proposed under Alternative B. Accordingly, no new trips or other new noise sources would be generated and no cumulatively considerable impacts would result from the implementation of Alternative B.

### 4.3.12 Hazardous Materials

Any new development in the area would be required to adhere to State and municipal regulations in the delivery, handling, and storage of hazardous materials, thereby reducing the risk of accidental exposure to the public’s health and welfare. Therefore, there are no significant cumulative hazardous materials issues associated with Alternative A.

No development or changes in land use are proposed under Alternative B. Accordingly, no new hazardous materials sources would be generated and no cumulatively considerable impacts would result from the implementation of Alternative B.

### 4.3.13 Visual Resources

The project site is currently used for commercial, recreational, and mixed use purposes. Proposed facilities would encompass the south central portions of the project site leaving the remainder of the project site as it exists. Visually, the proposed development is consistent with residential development along the north side of the property, and the visual impact would not change over time. Other development would occur according to planned land use designations surrounding the site and would follow applicable design, landscaping, sign, and lighting ordinances. This cumulative effect would be minimal.

No development or changes in land use are proposed under Alternative B. Accordingly, no cumulatively considerable impacts to visual resources would result from the implementation of Alternative B.

### 4.4 Indirect and Growth-Inducing Effects

Under NEPA, indirect and growth-inducing effects of a proposed project must be analyzed [40 Code of Federal Regulations (CFR) 1508.8(b)]. The CEQ Regulations define indirect effects as effects that are caused by the action and are later in time or further removed in distance, but are still reasonably foreseeable. Growth-inducing effects are defined as effects that foster economic or population growth, either directly or indirectly. Direct growth inducement could result, for example, if a project includes the construction of a new residential development. Indirect growth inducement could result if a project establishes substantial new permanent employment opportunities (e.g., new commercial, industrial, or governmental enterprises) or if it removes obstacles to population growth (e.g., expansion of a wastewater treatment plant to increase the service availability). This section focuses on the indirect and growth-inducing effects of Alternative A. With no change compared to existing conditions, Alternative B, would not result in indirect or growth-inducing effects and is therefore not discussed further.
4.0 Environmental Consequences

4.4.1 INDIRECT EFFECTS

Analyses of the adequacy of local resources, infrastructure, and services are included in the discussion of environmental consequences for each proposed Alternative. No significant, unmitigatable impacts to resources have been identified that would result from the implementation of Alternative A. Utility infrastructure would not be significantly improved or expanded to increase service availability to any areas surrounding the project site. Domestic water supply and wastewater service connections would developed on-site and therefore, no indirect off-site expansion of utilities is required to implement Alternative A. Other indirect effects are analyzed in previous sections by issue area.

4.4.2 GROWTH-INDUCING EFFECTS

Growth inducement may constitute a significant effect if the increased growth is not consistent with or accommodated by the land use and growth management plans and policies for the area affected. Local land use plans provide for development patterns and growth policies that allow for orderly development supported by adequate public services and utilities such as water supply, roadway infrastructure, sewer services, and solid waste disposal services. A project that would induce “disorderly” growth (i.e., would conflict with local land use plans) could indirectly cause adverse environmental or public service impacts.

Alternative A would involve the improvement of stormwater facilities within an existing paved area and development of a visitor center. Both development actions under Alternative A are consistent with existing approved land uses on the project site. Accordingly, the Proposed Action and selection of Alternative A would not result in disorderly growth that is not consistent with or accommodated by the land use and growth management plans and policies for the region. In addition, local construction companies would be utilized to develop the facilities and operation would require one additional Tribal employee. Accordingly, construction and operation would not result in disorderly growth on the project site, nor would the resource or potential housing demands of construction workers and one new employee result in the potential for disorderly growth in the nearby communities.

Analyses of the adequacy of local infrastructure and services are included in the discussion of environmental consequences for Alternative A. No significant, unmitigatable impacts have been identified that would result from the implementation of Alternative A. Additionally, implementation of Alternative A would not require proposed infrastructure improvements that would lead to excess capacity with the potential to induce growth. For example, the WWTP would not provide excess capacity that could lead to growth within the region. Utility infrastructure would not be expanded to increase service availability to surrounding areas. Growth-inducing effects would be less than significant for Alternative A.
SECTION 5.0
MITIGATION MEASURES

The following mitigation measures shall be incorporated into the project design, construction, and operation as applicable to reduce potentially adverse impacts of the Project Alternatives. All mitigation that is necessary to reduce adverse impacts to a minimal level will be binding on the Tribe because it is intrinsic to the project, required by federal law, required by agreements between the Tribe and local agencies, and/or will be required by a Tribal resolution.

5.1 LAND RESOURCES

No mitigation is required for the Proposed Action to reduced impacts related to topography, seismicity, and mineral resources. Mitigation is required for the Proposed Action to reduce impacts related to soil erosion.

5.1.1 STORMWATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES

The following mitigation measures shall be implemented to minimize impacts to water quality from stormwater runoff during construction:

- Coverage under the General Construction National Pollutant Discharge Elimination System (NPDES) permit shall be obtained from the U.S. Environmental Protection Agency (EPA). As required by the NPDES permit, a Storm Water Pollution Prevention Plan (SWPPP) shall be prepared that addresses potential water quality impacts associated with construction and operation of the Proposed Project. The SWPPP shall make provisions for erosion prevention and sediment control and control of other potential pollutants. The SWPPP shall describe construction practices, stabilization techniques and structural Best Management Practices (BMPs) that are to be implemented to prevent erosion and minimize sediment transport. BMPs shall be inspected, maintained, and repaired to assure continued performance of their intended function. Reports summarizing the scope of these inspections, the personnel conducting the inspection, the dates of the inspections, major observations relating to the implementation of the SWPPP, and actions taken as a result of these inspections shall be prepared and retained as part of the SWPPP. The BMPs shall include, but are not limited to, the following:
  - Stripped areas shall be stabilized through temporary seeding using dryland grasses.
  - Exposed stockpiled soils shall be covered with plastic covering to prevent wind and rain erosion.
5.0 Mitigation Measures

- The construction entrance shall be stabilized by the use of rip-rap, crushed gravel, or other such material to prevent the track-out of dirt and mud.

- Construction roadways shall be stabilized through the use of frequent watering, stabilizing chemical application, or physical covering of gravel or rip-rap.

- Filter fences shall be erected at all onsite stormwater exit points and along the edge of graded areas to stabilized non-graded areas and control siltation of onsite stormwater.

- Prior to land-disturbing activities, the clearing and grading limits shall be marked clearly, both in the field and on the plans. This can be done using construction fences or by creating buffer zones.

- Concentrated flows create high potential for erosion; therefore, any slopes shall be protected from concentration flow. This can be done by using gradient terraces, interceptor dikes, and swales, and by installing pipe slope drains or level spreaders. Inlets need to be protected to provide an initial filtering of stormwater runoff; however, any sediment buildup shall be removed so the inlet does not become blocked.

- The SWPPP shall address maintenance and repair of heavy equipment on site to remove the potential for pollution from oil, fuel, hydraulic fluid, or any other potential pollutant.

- If construction occurs during wet periods, sub-grade stabilization shall be required. Mulching or netting may be needed for wet-weather construction.

- Temporary erosion control measures (such as silt fence, gravel filter berms, straw wattles, sediment/grease traps, mulching of disturbed soil, construction stormwater chemical treatment, and construction stormwater filtration) shall be employed for disturbed areas.

- Exposed and unworked soils shall be stabilized by the application of effective BMPs. These include, but are not limited to, temporary or permanent seeding, mulching, nets and blankets, plastic covering, sodding, and gradient terraces.

- Existing vegetation shall be retained where possible. To the extent feasible, grading activities shall be limited to the immediate area required for construction.

- Temporary erosion control measures (such as silt fences, staked straw bales, and temporary revegetation) shall be employed for disturbed areas and stockpiled soil.

- Potentially hazardous materials shall be stored away from drainages and containment berms shall be constructed to prevent spilled materials from reaching water bodies.

- Vehicles and equipment used during construction shall be provided proper and timely maintenance to reduce potential for mechanical breakdowns leading to a spill of materials into water bodies. Maintenance and fueling shall be conducted in an area that meets the criteria set forth in the spill prevention plan.

- Disturbed areas shall be revegetated after completion of construction activities.
5.0 Mitigation Measures

5.2 WATER RESOURCES

5.2.1 WATER QUALITY

CONSTRUCTION ACTIVITIES

The following mitigation measures shall be implemented to minimize impacts to water quality from stormwater runoff during construction:

- As required and enforced by the EPA under the Clean Water Act, prior to construction, a SWPPP shall be prepared that addresses water quality impacts associated with construction and on-going operation of the project. Permanent water quality maintenance features shall be incorporated into the project design and operation. Water quality control measures identified in the SWPPP shall include those listed above in Section 5.1.1.

OPERATIONAL MEASURES

The following mitigation measures shall be implemented to minimize impacts to water quality from stormwater runoff:

- Storm drain inlets shall also be labeled “No Dumping – Drains to Ocean.”
- Permanent energy dissipaters shall be included for drainage outlets.

5.3 AIR QUALITY

No adverse air quality effects would result from Proposed Project with the incorporation of the BMPs listed in Section 2.2. No mitigation is required for the Proposed Action.

5.4 BIOLOGICAL RESOURCES

5.4.1 SPECIAL STATUS SPECIES

The following mitigation measures shall be implemented to minimize impacts to special status species.

- Although marbled murrelet nesting habitat is not found on the project site, some rifting may occur in the waters of Trinidad Bay. A qualified biologist shall conduct a pre-construction survey and in the event that marbled murrelet are identified on or near the project site, consultation with the USFWS shall be conducted to determine the appropriate buffer distances and measures from the species.
- A qualified biologist shall conduct a preconstruction survey within 100 feet around the vicinity of the project site for active western snowy plover nests should construction activities commence during the nesting season for western snowy plover (March through September). Following the preconstruction nesting bird survey, if any active western snowy plover nests are located within the vicinity of the project site, a no-disturbance buffer zone shall be established around the nests to
avoid disturbance or destruction of the nest. The distance around the no-disturbance buffer shall be determined by the biologist in coordination with USFWS, if needed, and will depend on the level of noise or construction activity, the level of ambient noise in the vicinity of the nest, line-of-sight between the nest and disturbance, and the species at hand. The biologist shall delimit the buffer zone with construction tape or pin flags. The no-disturbance buffer will remain in place until after the nesting season (to be lifted August-September) or until the biologist determines that the young birds have fledged. A report shall be prepared and submitted to the Tribe and the USFWS following the fledging of the nestlings to document the results.

- Implement **Mitigation Measure 5.11.1** to limit construction noise to standard daytime hours to eliminate construction noise during hours that would be sensitive to the steller sea lion.

- Implementation of steller sea lion training for all on-site workers and employees shall be conducted. If steller sea lion is discovered on or near the project site during construction activities, all construction activities will halt, the on-call biologist shall be notified immediately, and consultation with the NMFS and USFS shall determine appropriate measures for buffers or measures to be applied.

### 5.4.2 AQUATIC HABITATS

The following mitigation measures shall be implemented to minimize impacts to aquatic habitats.

- As described under **Section 5.1**, prior to construction, an NPDES permit shall be obtained from the EPA and a SWPPP shall be prepared. The SWPPP shall describe construction practices, stabilization techniques and structural BMPs that are to be implemented to prevent erosion and minimize sediment transport as outlined above.

- The project site shall incorporate BMPs for stormwater runoff, including sedimentation basins, vegetated swales, and runoff infiltration devices if necessary, to ensure that the water quality of on-site or nearby waters does not degrade. Stormwater runoff from the project site shall be monitored according to BMPs to assess the quality of water leaving the project site.

- All equipment re-fueling and maintenance shall occur in an approved staging area and an agency-approved spill prevention plan will implemented by the contractor.

### 5.4.3 MIGRATORY BIRDS

The following mitigation measures shall be implemented to minimize impacts to nesting birds.

- In accordance with the Migratory Bird Treaty Act, a qualified biologist will conduct a preconstruction survey within 100 feet around the vicinity of the project site for active nests should construction activities commence during the nesting season for birds of prey and migratory birds (between February 15 and September 15).
Following a preconstruction nesting bird survey, if any active nests of migratory birds are located within the vicinity of the Action Area, a no-disturbance buffer zone shall be established around the nests to avoid disturbance or destruction of the nest. The distance around the no-disturbance buffer shall be determined by the biologist in coordination with USFWS, if needed, and will depend on the level of noise or construction activity, the level of ambient noise in the vicinity of the nest, line-of-sight between the nest and disturbance, and the species at hand. The biologist shall delineate the buffer zone with construction tape or pin flags. The no-disturbance buffer will remain in place until after the nesting season (to be lifted August-September) or until the biologist determines that the young birds have fledged. A report shall be prepared and submitted to the Tribe and the USFWS following the fledging of the nestlings to document the results.

5.5 CULTURAL RESOURCES

5.5.1 INADVERTENT DISCOVERY

The following mitigation measures shall be implemented to minimize impacts to cultural resources during construction:

- Any inadvertent discovery of archaeological resources shall be subject to Section 106 of the National Historic Preservation Act as amended (36 C.F.R. § 800), the Native American Graves Protection and Repatriation Act (NAGPRA)(25 U.S.C. § 3001 et seq.), and the Archaeological Resources Protection Act of 1979 (16 U.S.C. § 470aa-mm). Specifically, procedures for post review discoveries without prior planning pursuant to 36 C.F.R. § 800.13 shall be followed. The purpose of the following mitigation measures is to minimize the potential adverse effect of construction activities to previously unknown archaeological or paleontological resources in the case of inadvertent discovery:
  - All work within 50 feet of the potential archaeological find shall be halted until a professional archaeologist, or paleontologist if the find is of a paleontological nature, can assess the significance of the find.
  - If any archaeological find is determined to be significant by the archaeologist, or paleontologist as appropriate, then representatives of the Tribe shall meet with the archaeologist, or paleontologist, to determine the appropriate course of action, including the development of a Treatment Plan, if necessary.
  - All significant cultural or paleontological materials recovered shall be subject to scientific analysis, professional curation, and a report prepared by the professional archaeologist, or paleontologist, according to current professional standards.
  - If human remains are discovered during ground-disturbing activities on Tribal lands, pursuant to NAGPRA, the Tribal Official and BIA representative shall be contacted immediately. No further disturbance shall occur until the Tribal Official and BIA representative have made the necessary findings as to the origin and disposition. If the remains are determined to be of
Native American origin, the BIA representative shall notify a Most Likely Descendant (MLD). The MLD is responsible for recommending the appropriate disposition of the remains and any grave goods.

5.6  SOCIOECONOMIC CONDITIONS/ ENVIRONMENTAL JUSTICE

No adverse socioeconomic or environmental justice effects are anticipated as a result of the Proposed Project. No mitigation is required for the Proposed Action.

5.7  TRANSPORTATION AND CIRCULATION

All surrounding intersections are projected to continue operating at acceptable levels of service under the Proposed Action. No mitigation is necessary.

5.8  LAND USE

No adverse effects to land use would occur as a result of the Proposed Project and thus, no mitigation is required for the Proposed Action.

5.9  AGRICULTURE

No agriculture occurs on or within the immediate vicinity of the project site and no adverse effects from the Proposed Project are expected to occur. No mitigation is required for the Proposed Action.

5.10  PUBLIC SERVICES

No adverse impacts to public services would occur as a result of the Proposed Project. No mitigation is required for the Proposed Action.

5.11  NOISE

5.11.1  CONSTRUCTION NOISE

The following mitigation measures shall be implemented to minimize impacts from noise during construction:

- Construction activities would only occur between the hours of 7:00 am to 6:00 pm Monday through Friday, and 9:00 am to 5:00 pm on Saturday. No construction activities would occur on any Sunday.
5.0 Mitigation Measures

- Where feasible, the stationary construction equipment shall be located on the southern portion of the project site.
- All construction equipment over 50 horsepower shall be equipped with noise reducing mufflers.

5.12 HAZARDOUS MATERIALS

No adverse effects from hazardous materials would result from Proposed Project with the incorporation of the BMPs listed in Section 2.2. No mitigation is required for the Proposed Action.

5.13 VISUAL RESOURCES

No mitigation is required for the Proposed Action.
SECTION 6.0
CONSULTATION, COORDINATION, AND LIST OF PREPARERS

6.1 FEDERAL AGENCIES
Bureau of Indian Affairs (Lead Federal Agency)
   John Rydzik

United States Department of Agriculture-Natural Resources Conservation Service

6.2 LOCAL GOVERNMENT
City of Trinidad Water District
   Bryan Buckman

Humboldt County Sheriff’s Department
   George Cavinta

6.3 PREPARERS OF ENVIRONMENTAL ASSESSMENT
Analytical Environmental Services
   Project Director: David Zweig, P.E.
   Project Manager: Trent Wilson
   Deputy Project Manager: Kassandra Dickerson
   Technical Staff: Charlane Gross
                  Laura Zajac
                  Erin Quinn
                  Glenn Mayfield
                  Dana Hirschberg
SECTION 7.0

BIBLIOGRAPHY


Buckman, Bryan; 2016. Personal communication with AES staff and Bryan Buckman, Director of Trinidad Water Department. February 16, 2016.


Cavinta, George, Lieutenant 2015. Commander of Patrol Operation of Humboldt County Sheriff's Department. Personal communication between Commander of Patrol Operation Lieutenant Cavinta and AES (Justin Demianew). December 8, 2015.


APPENDIX A

BAY STREET STORMWATER IMPROVEMENT PLAN
8CM PERMEABLE CONCRETE PAVERS:
ACKER-STONE UNI ECO-STONE

OPEN-GRADED BEDDING COURSE:
(1 1/2"-2" THICK LAYER OF NO. 8 GRAVEL)

3/8" TO 1/2" OPEN GRADED AGGREGATE-NO FINES

PERMEABLE JOINT MATERIALS:
NO. 8 GRAVEL (3/8" TO 1/2" OPEN GRADED AGGREGATE-NO FINES)

OPEN-GRADED BASE:
MINIMUM 4" THICK LAYER OF NO. 57 GRAVEL (1/2" TO 1-1/2" OPEN GRADED AGGREGATE-NO FINES)

OPEN-GRADED SUBBASE:
MINIMUM 12" LAYER OF NO. 2 SUBBASE (1-1/2" TO 3" OPEN GRADED AGGREGATE-NO FINES)

NON-WOVEN GEOTEXTILE FABRIC UNDER SUBBASE:
GEO-SYNTHETIC MATERIAL, TYPE, AND FREQUENCY SPECIFIED BY ENGINEER

EDGE RESTRAINTS: PERM EDGE PAVER EDGING
SPIKES: 10" X 3/8" SPIKES

UNCOMPACTED SUBGRADE SOIL

SLOPE - 8%
PAINTING - CHEVRON PATTERN

TYPICAL PERMEABLE PAVER SECTION VIEW DETAIL

SPEED HUMP DETAIL

BURY 3'-6" OF MANHOLE RISER AND COVER BELOW GRADE SURFACE

TYPICAL DRY WELL - SECTION VIEW

TYPICAL DRY WELL - PLAN VIEW

TYPICAL CURB BANDING & GUTTER DETAIL

PERMEABLE PAVER PLAN VIEW LAYOUT
TYPE II PORTLAND CEMENT CONCRETE MIX
MINIMUM: 3,000 PSI

ASPHALT (EXISTING)

SUBBASE: CLASS 2

TYPICAL CURB BANDING & GUTTER DETAIL

REBAR REINFORCEMENT
NO. 4 REBAR EPOXY COATED
SAW CUT ASPHALT

HEAVY DUTY GRATING:
TYPE 15-W-2
MATERIAL: WELDED STAINLESS STEEL
WITH BANDING
CROSS BARS: RECTANGULAR
FINISH: AASHTO: H-20
BEARING BAR SPACING AT 15/16" O.C.
BEARING BAR THICKNESS: 1/4"
BEARING BAR DEPTH: 2"
CROSS BARS SPACING AT 2" O.C.

STAINLESS STEEL HARDWARE

ATTACH SUPPORT TO LINEAR DRAIN

SEEPAGE HOLES
HOLE DIAMETER: 8"
SPACING: 18" ON CENTER

CONCRETE MIX
PSI: 3,000 MIN. TYPE II
THICKNESS: 4-16"

CONCRETE MA

PERFORATED SCREEN
12"x180"
STAINLESS STEEL (10-12 GAUGE)
APERTURE 200%

NON-WOVEN GEOTEXTILE FABRIC

BASE MATERIAL:
1 1/2" DRAIN ROCK
THICKNESS: 6"

TYPICAL RIBBON DRAIN - FORM

FLOATING DEBRIS SCREEN

TYPICAL RIBBON DRAIN WITH ARCH REINFORCEMENT

PACIFIC WATERSHED ASSOCIATES, INC.
P.O. BOX 4433
ARCATA, CALIFORNIA 95518
PH: (707) 839-5130  FX: (707) 839-8168
www.pacificwatershed.com

PWA JOB NO.: 10258

7/1/2016
Wetland Plants: AB35 plant band - 12"-20" On Center spacing
Juncus patens - Spreading Rush
Juncus effusus - Common Rush
Scirpus microcarpus - Small-fruited Bulrush
Oenanthe sarmentosa - Water Parsley

Grasses: AB35 plant band - 12"-20" On Center spacing
Deschampsia cespitosa - Tufted Hairgrass
Festuca rubra - Red Fescue
Hordeum brachyantherum - Meadow Barley
Calamagrostis nutkaensis - Pacific Reedgrass

Perennial forbs: 1 gallon - 36"-48" On Center spacing
Artemisia douglasiana - Wormwood
Scrophularia californica - Figwort
Achillea millefolium - Common Yarrow
Iris douglasiana - Douglas Iris
Lupinus polyphyllus - Broadleaf Lupine

Shrubs: 1 gallon - 48"-72" On Center spacing
Ribes sanguineum - Red-flowering Currant
Garrya elliptica - Silk Tassel
Lonicer a involucrata - Twinberry
Rubus parviflorus - Thimbleberry
Vaccinium ovalum - Evergreen Huckleberry
Morella californica - Wax Myrtle
Holodiscus discolor - Oceanspray
Arctostaphylos uva-ursi - Kinikinik
Rosa californica - CA Rose
Mimulus aurantiacus - Yellow Bush Monkeyflower
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C. Storm Drain Plan Sheet
**D. Contingency Plan For Stormwater Disposal System**

CONTIGENCY PLAN FOR FAILURE OF
STORMWATER DISPOSAL SYSTEM
TRINIDAD PIER
TRINIDAD, CALIFORNIA

**Introduction**

The following is a plan for disposal of excess storm water in the event of failure or overloading of the proposed storm water disposal area for the Trinidad Pier Reconstruction Project. The proposed disposal area consists of subsurface percolation chambers that dispose of all of the storm water runoff from the pier structure. The system consists of drains off of the pier deck, storm water piping, a primary sedimentation chamber, on oil/water separator, and subsurface percolation chambers.

**Need and Purpose**

This plan is needed to provide for disposal of excess storm water in the event of failure of the primary system. Failure of this system could possibly lead to over flowing and discharge into the Trinidad Area of Special Biological Significant (ASBS)

**Contingency Plan**

The plan for mitigation of failure of this system consists of two parts; maintenance and monitoring, and pumping away excess water. Descriptions of these two parts are as follows:

**Maintenance and Monitoring:** The first line of defense against failure of this system would be to provide proper maintenance and monitoring of the system. To this end an observation well will be installed that will allow the Trinidad Rancheria to check water levels within the system. This would give adequate time for a response before the system completely fails. Additionally the oil/water separator will be inspected and maintained regularly by Rancheria staff.

**Pumping Stormwater:** In the event that the percolation chamber is found to be failing, or full to capacity to the point where it can no longer accept storm water, additional storm water can be pumped to an upland disposal area. This will be accomplished by employing three different phases: pumping, transport, and disposal.

**Pumping:** This can be accomplished by temporarily installing a pump inside the outlet chamber of the oil/water separator, which will be easily accessible from the access point at the top. The pump should suction from the bottom of the chamber to insure that only treated water is pumped. A 1 to 3 Hp submersible pump (or a 3” trash pump) will likely be adequate for this task. Electrical power is available nearby if necessary.

**Transport:** Above ground, flexible fire hose can be used to transfer the storm water to the upland disposal site. Hose will be routed to avoid traffic areas and will be monitored for leaks.

**Disposal:** The most likely location for an upland disposal area would be the area currently being used as a contractor’s staging area. This area is ideal because it is out of the way, does not sit in a low-lying area, and has sandy soils to facilitate percolation. The percolation area would consist of a small pit - eight feet by ten feet by three feet in depth. Stormwater would be pumped into the pit for disposal by percolation. Pumping will continue until the permanent system can sufficiently handle the storm water flows.

This pumping system can also be utilized during any repairs that may be necessary to the existing storm water disposal system.
E. Maintenance and Monitoring Plan of Stormwater Disposal System

MAINTENANCE AND MONITORING OF STORMWATER DISPOSAL SYSTEM
TRINIDAD PIER
TRINIDAD, CALIFORNIA

Introduction

The following is a plan for maintenance and monitoring of the proposed storm water disposal system for the Trinidad Pier Reconstruction Project. The proposed system consists of subsurface percolation chambers that dispose of all of the storm water runoff from the pier structure. The system consists of drains off of the pier deck, storm water piping, a primary sedimentation chamber, filter system, and subsurface percolation chambers.

Need and Purpose

All stormwater management systems – whether natural or manufactured – should be maintained regularly. Despite the widespread implementation of BMP’s, water quality goals will not be met if the treatment structures are not properly maintained. This plan is intended to provide proper maintenance and monitoring of the Trinidad Pier Reconstruction Project storm water system and to insure that the system operates at peak capacity in order to protect the designed Area of Special Biological Significant (ASBS) located in Trinidad Harbor.

Although there are other effective maintenance options, Trinity Valley Consulting Engineers, Inc. recommends the following two step procedure:

1. Monitoring: Determine the need for maintenance

Monitoring

The first line of defense against failure of this system would be to provide proper monitoring of the system. Generally, monitoring activities can be conducted at any time; at least one scheduled monitoring activity shall take place per year with maintenance following as warranted. To this end an observation well will be installed that will allow the Trinidad Rancheria to check water levels and conditions within the system.

Monitoring shall be done before the winter season when flows into the system are unlikely. During which, the need for maintenance shall be determined. Additionally, the condition of the Storm Filter unit shall be monitored after major storms for potential damage caused by high flows and for high sediment accumulation. Rancheria staff shall visually inspect the external condition of the system and take notes concerning problems. It may be necessary to adjust the actual monitoring/maintenance activity schedule depending on the actual operating conditions encountered by the system.

Maintenance

Maintenance requirements are dependent on the load characteristics with frequency dependent on sediment loading. The need for maintenance is typically based on results of the monitoring. Maintenance of the system components shall be as follows:

Inlet Area:

Inlet area of system shall be cleaned and maintained by Trinidad Rancheria staff as determined necessary by regular site inspections.
Primary Sedimentation Chambers:
This system will be inspected at least once every six months and after large storm events. Any build up of debris observed will be cleared out as needed.

Storm Filter Chamber:
This chamber will be inspected at a minimum of once every six months and after large rain events. Inspection will check that flows are performing as designed, and any debris observed will be removed. The chamber shall be inspected for sediment loading on the vault floor, sediment loading on top of the cartridge and submerged cartridges.

Storm Filter:
Filters are of a replaceable cartridge design allowing Trinidad Rancheria staff to replace filters as required by site conditions. The storm filter will be inspected at a minimum of once every six months and after large rain events. The filter will be inspected for any obvious signs of damage or debris and cleaned as necessary. Filters will be removed and maintained once every two years as per the manufacturer’s recommendations. Maintenance will be performed per the manufacturer’s recommendations.

Stormwater Disposal Field:
The storm water disposal field will be inspected once every six months utilizing the observation well to be installed. Water levels will be observed to insure that the field is functioning properly.
**Query Summary:**
Taxonomic Group IS (Fish OR Amphibians OR Reptiles OR Birds OR Mammals OR Mollusks OR Arachnids OR Crustaceans OR Insects OR Fems OR Gymnosperms OR Monocots OR Dicots OR Lichens OR Bryophytes) AND Federal Listing Status IS (Endangered OR Threatened) AND State Listing Status IS (Endangered OR Threatened) AND County IS (Humboldt) AND Elevation IS greater than OR equal to 0 AND Elevation IS less than OR equal to 80 AND Habitat IS (Coastal bluff scrub OR Coastal scrub OR Marine bay)

### CNDDB Element Query Results

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<th>Scientific Name</th>
<th>Common Name</th>
<th>Taxonomic Group</th>
<th>Element Code</th>
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<td>beach layia</td>
<td>Dicots</td>
<td>PDAST5N010</td>
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<td>9</td>
<td>Endangered</td>
<td>Endangered</td>
<td>G2</td>
<td>S2</td>
<td>1B.1</td>
<td>SB_RSABG: Rancho Santa Ana Botanic Garden</td>
<td>Coastal dunes</td>
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<td>Monocots</td>
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<td>3</td>
<td>Endangered</td>
<td>Endangered</td>
<td>G1</td>
<td>S1</td>
<td>1B.1</td>
<td>SB_BerrySB: Berry Seed Bank</td>
<td>Bog &amp; fen</td>
</tr>
</tbody>
</table>
THE HISTORICAL RECORDS SEARCH CONTAINS SENSITIVE AND CONFIDENTIAL INFORMATION AND IS RETAINED AT THE CITY OF CONCORD OFFICES UNDER SEPARATE COVER. THE RELEVANT HISTORICAL INFORMATION CONTAINED WITHIN THE RESULTS OF THE HISTORIC RECORDS SEARCH WILL BE PRESENTED TO THE APPROPRIATE REGULATORY AGENCIES IN ACCORDANCE WITH FEDERAL AND STATE REQUIREMENTS AS APPLICABLE TO THE PROPOSED PROJECT.
PHASE I ENVIRONMENTAL SITE ASSESSMENT

TRINIDAD RANCHERIA

STORMWATER IMPROVEMENT AND INTERPRETIVE VISITOR CENTER PROJECT

DECEMBER 2015

PREPARED FOR:
Trinidad Rancheria
P.O. Box 630, 1 Cher-Ae Lane
Trinidad, CA 95570

PREPARED BY:
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TRINIDAD, CA
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ATTACHMENTS

Attachment A  Record Search Results
Attachment B  Resumes
SECTION 1.0
INTRODUCTION

1.1 PURPOSE

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared in conformance with the Bureau of Indian Affairs (BIA) guidelines (602 DM Chapter 2) and the American Society for Testing and Materials (ASTM) Standard Practice E 1527-13, which specifies the appropriate inquiry requirement for the innocent landowner defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This Phase I ESA encompasses eight legal parcels – Humboldt County Assessor’s Parcel Numbers (APN): 420-71-01, 420-71-09, 420-71-08, 420-71-02, 420-71-12, 420-71-13, 420-71-14, 420-91-08, and 420-91-10, totaling approximately 6 acres, located within the County of Humboldt California (Figure 1). The use of the term “Subject Property” refers to all nine properties, unless otherwise stated. The purpose of this assessment is to identify Recognized Environmental Conditions (RECs) that may affect future uses of the Subject Property.

This Phase I ESA covers the Subject Property and surrounding known sources of contamination, up to 1.0 mile from the Subject Property. A site reconnaissance inspection of the Subject Property and adjacent properties was performed and relevant database listings of hazardous materials sites, waste generators, and underground storage tanks (UTSs) were reviewed. Additionally, historical topographic maps and aerial photographs for the Subject Property were reviewed.

1.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

The term “REC” refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term 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 present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Additionally, the term Historical Recognized Environmental Conditions (HRECs) refers to an environmental condition associated with the Subject Property, including a past release of any hazardous substance or petroleum product that has since been remediated, which in the past would have been considered a REC. This Phase I ESA additionally includes the analysis of the presence of Controlled Recognized Environmental Conditions (CREC), for hazardous substance releases that have been partially addressed through remediation, but where some contamination remains in place under certain risk-based restrictions or conditions. HRECs and CREC are included in this Phase I ESA (ASTM, 2013).
Figure 1
Regional Location
1.3 LIMITATIONS AND EXCEPTIONS

No Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property. Conformance of this assessment with ASTM Standard Practice E 1527-13 will reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property. While every effort has been made to discover and interpret available historical and current information on the properties within the time available, the possibility of undiscovered contamination remains. This report prepared by Analytical Environmental Services (AES) is a best-effort collection and interpretation of available information consistent with industry standards for the completion of this Phase I ESA.

This Phase I ESA is based on a site reconnaissance of the Subject Property, a visual reconnaissance of adjacent properties, searches of government hazardous materials databases, and interviews with individuals familiar with current and historical uses of the Subject Property. Physical testing of soil or groundwater was not within the scope of this assessment. Asbestos containing building materials (ACM) and lead-based paint surveys were not included. Information was obtained for this Phase I ESA to comply with current ASTM guidelines.

1.4 METHODOLOGY

A variety of data sources were consulted in completing this Phase I ESA. The following sub-sections describe the methods used and the data sources consulted to accomplish each task.

1.4.1 Historical Review

Previous land uses and history of the Subject Property were researched in an effort to identify RECs at or near the Subject Property. Historical aerial photographs (Attachment A) and topographic maps (Attachment A) from different decades were examined for the presence of aboveground storage tanks, industrial buildings, gas station canopies and/or pump islands, as well as other indications of bulk hazardous material storage within the study area. Sanborn Fire Insurance Maps document historical property uses through abbreviations and map symbols that identify commercial, residential, industrial, residential and other land uses. Due to a rural nature, the Subject Property is unmapped in the Sanborn Library; thus, no records were available for review (Attachment A).

1.4.2 Database Searches

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or release. Available information from federal, state, and local agency lists consists of: (a) known or potential hazardous waste sites and landfills; (b) sites currently under investigation for environmental violations; (c) sites which manufacture, generate, use, store, and/or dispose of hazardous materials or hazardous wastes; (d) sites which have USTs and/or above-ground storage tanks (ASTs); and (e) sites with recorded violations of regulations concerning USTs and hazardous materials/hazardous wastes. The database search is intended to identify facilities that may have the
potential to impact surface and subsurface conditions on the Subject Property. A full listing of sites within the vicinity of the Subject Property is provided in Attachment A.

1.4.3 Site Reconnaissance
Trenton Wilson of AES conducted a reconnaissance inspection of the Subject Property and adjacent properties on November 19 and 20, 2015. The purpose of the reconnaissance survey was to examine the Subject Property for obvious physical indications of improper hazardous substance or evidence of petrochemical disposal, such as stained soil, stressed vegetation, sumps, partially buried drums, bulk underground and above-ground fuel storage tanks, and other obvious signs of hazardous materials involvement. In addition, adjacent properties were visually inspected to the extent possible, without trespassing on private property, to determine if current land uses would affect the planned uses of the Subject Property.

1.5 DEVIATIONS AND DATA GAPS
ASTM Standard E 1527-13 requires any significant data gaps, deviations, and deletions from the ASTM Standard to be identified and addressed in the Phase I ESA. A significant data gap would be one that affected the ability to identify a REC on the Subject Property or adjacent properties.

Due to the location of the Subject Property, Sanborn Fire Insurance maps were not available for the Subject Property. Because there is no historical data or physical indications that the property has ever been developed or occupied by a business that would have produced hazardous materials, the lack of Sanborn Fire Insurance maps is not considered a significant data gap for this Phase I ESA.

1.6 CREDENTIALS
Trenton Wilson prepared this report under the professional supervision of David Zweig, P.E., who qualifies as an environmental professional (EP) as defined in the ASTM Standard E 1527-13 [40 CFR §312.10(b)]. Resumes for Trenton Wilson and David Zweig are included as Attachment B.
SECTION 2.0
SITE DESCRIPTION

2.1 LOCATION AND LEGAL DESCRIPTION
The Subject Property is located in Trinidad in northwestern Humboldt County (County), California on the Pacific Ocean Coast (Figure 2 and 3). The subject Property is located at the Trinidad Little Head on the southwestern portion of the City on Bay Street (Figure 3), approximately 0.6 miles west of United States (U.S.) Route 101 (U.S. 101). The Humboldt County APNs for the Subject Property are 420-71-01, 4207109, 420-71-08, 420-71-02, 420-71-12, 420-71-13, 420-91-08, and 420-91-10.

2.2 SITE AND VICINITY CHARACTERISTICS
The Subject Property has eight structures including one restaurant, one residence with a detached garage, a storage/ public restrooms building, one small office building, three storage sheds, and one wharf extending south into the Pacific between Trinidad Head and Trinidad Little Head. Between the restaurant, storage sheds, and public restrooms building, extending and including Bay Street and up to the residence, the site is paved. The Subject Property varies in elevation from 0 feet amsl up to 159 feet amsl. The surrounding bluffs and the eastern portion of the Subject Property are overgrown with coastal scrub vegetation such as coyote brush (Baccharis pilularis), bush monkey-flower (Mimulus aurantiacus), salal (Gaultheria shallon), and cow parsnip (Heracleum maximum).

Regional access to the Subject Property is provided by U.S. 101, located approximately 1.3 miles east of the Subject Property, which runs in a north-south direction along the Pacific Coast of California. Local access to the Subject Property via US-101 is provided by Lighthouse Road which connects Bay Street to Edwards Street. Edwards Street dead ends with Ocean Avenue, a north-south residential road that transects Main Street which continues east and connects with U.S. 101.

2.3 LOCAL ENVIRONMENTAL RECORDS SOURCES
2.3.1 Local Environmental Agency
The Environmental Data Resources (EDR) database report and the State Water Resources Control Board (SWRCB) Geotracker website (SWRCB, 2015) provided search and documentation of the available Humboldt County hazardous materials data (Attachment A).

2.3.2 Community Development Department
The entire Subject Property is zoned ANI City according to the Humboldt County Planning and Building Department (Humboldt, 2015). The current land use is consistent with the current zoning designation.
SOURCE: "Trinidad, CA" USGS 7.5 Minute Topographic Quadrangle, T8N R1W Section 26 and Unsectored Areas of Trinidad Bay, Humboldt Baseline & Meridian; AES, 12/2015

Trinidad Rancheria Fee-to-Trust and Interpretive Visitor Center Phase I ESA / 215569

Figure 2
Site and Vicinity
Figure 3
Aerial Photograph

LEGEND

- Subject Property 0.38 ac

PARCELS:

1. APN 04207101, 2.02ac
2. APN 04207102, 0.50ac
3. APN 04207105, 0.01ac
4. APN 04207108, 2.81ac
5. APN 04207112, 0.40ac
6. APN 04207113, 0.80ac
7. APN 04207114, 0.46ac
8. APN 04209108, 0.22ac
9. APN 04209110, 0.38ac

No APN, 2.85ac

SOURCE: Humboldt County Parcel GIS Data, 2013; DigitalGlobe aerial photograph, 6/6/2013; AES, 12/2015
2.3.3 Electrical Utility Company
Pacific Gas and Electric (PG&E) provides electrical service to the Subject Property and adjacent properties. Overhead electrical utility lines transverse the property however, no transformers were observed within or adjacent to the parcel.

2.3.4 Other Local Environmental Records Sources
The SWRCB Geotracker website was reviewed for listings of USTs, leaking underground storage tanks (LUSTs), or spill cases in association with petroleum chemicals at the Subject Property (SWRCB, 2015). The Geotracker website had one listing of a LUST cleanup site on the Subject Property known as “Bob’s Boat Basin” which was completed on 1/14/2003.

2.4 HYDROLOGY
Currently, there are no data available for the Subject Property through the California Department of Water Resources (DWR) water data library website (DWR, 2015).

Due to the nature of the Subject Property’s topography, surface water within the property drains from the north to the center, from the southwest to the north towards the center of the property, and from the center towards the south-southwest into the Pacific Ocean.

2.5 GEOLOGY AND SOIL
The rock stratigraphic unit at the Subject Property is of the Mesozoic era, Cretaceous system, and Upper Mesozoic series (NRCS, 2015). Oxyaquic Udipsamments-Samoan complex and Candymountain complex soils are the most abundant formations on the Subject Property. These soil types are somewhat poorly drained.

2.6 CURRENT USES OF THE SUBJECT PROPERTY
The Subject Property is currently being used as a commercial business (restaurant and office building), recreational (Trinidad Head Trails), residential, and Coastal access through the Wharf. Site Photos showing the conditions of the Subject Property during the site visit are listed below in Section 3.2.

2.7 HISTORIC USES OF THE SUBJECT PROPERTY
2.7.1 Aerial Photographs
Available historic aerial photographs (Attachment A) were reviewed for information regarding past uses of the Subject Property and surrounding areas. The following aerial photographs were available for review: 1956 (1”=500’), 1964 (1”=500’), 1974 (1”=500’), 1983 (1”=500’), 1989 (1”=500’), 1993 (1”=500’), 1998 (1”=500’), 2005 (1”=500’), 2009 (1”=500’), 2010 (1”=500’), and 2012 (1”=500’). Aerial photographs were of varying scale and clarity. Historical aerial images offer detailed review of previous land uses on
the Subject Property and adjacent properties. The Subject Property and surrounding areas were photographed as undeveloped on the aerial photographs dated in 1956 through 1989 with residential development near the Subject Property commencing in 1964. Additional development began in 1974 with occasional construction occurring through 2010. The Subject Property is difficult to assess in the 1983 and 1989 aerals. A residence and restaurant were constructed by 1993 while the sheds/outbuildings were present by 2005. No other uses were visible on subsequent photographs. No industrial or agricultural land uses appear on the Subject Property in the historical aerial photographs.

2.7.2 Historic Topographic Maps

Available historic USGS topographic quadrangles (Attachment A) were reviewed for information regarding past uses of the Subject Property, including the 1945, 1952, 1966, and 2012 Crescent City topographic quadrangle maps. In 1966 topographic maps, two structures were noted on the Subject Property.

2.8 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps do not provide coverage of the Subject Property due to the Subject Property’s rural nature.

2.9 OTHER PHYSICAL SETTING SOURCES

2.9.1 Wetlands Map

No documented wetlands are located on the Subject Property (EDR, 2015). A copy of the Overview Map is included in the regulatory database report in Attachment A.
SECTION 3.0
SITE RECONNAISSANCE AND INTERVIEWS

3.1 OBJECTIVE

The objective of the site reconnaissance is to identify current or historic hazardous materials involvement on or near the Subject Property. Hazardous materials involvement or signature environmental conditions include the presence or likely presence of any hazardous materials or petroleum products that indicate an existing release, past release, or a threat of release into any structure on the property, soil, or groundwater. Signs of possible hazardous materials involvement would include any indications of USTs existing on the Subject Property; stained soils and/or unusual odors originating from the Subject Property; indications of any excavation or removal of soils, including patched asphalt and large debris piles; and other obvious signs of hazardous materials involvement.

3.2 SITE RECONNAISSANCE FINDINGS

A site reconnaissance of the Subject Property was performed by Trenton Wilson of AES on November 19 and 20, 2015. Adjacent properties were observed to the extent possible without trespassing. Site photographs below show site conditions at the time of the survey. Notable features and environmental conditions are summarized below. The subject Property’s elevation varies from 0 feet above mean sea level (amsl) to 159 feet amsl at the top of Trinidad Little Head. The majority of the Subject Property is between 28 feet amsl and 45 feet amsl. The residence located on the Subject Property is approximately 41 feet amsl. The restaurant located near the center of the Subject Property is located at an elevation of approximately 28 feet amsl whereas the parking lot to the north of the restaurant ranges from 29 feet amsl to 33 feet amsl sloping to the southeast. The unpaved parking lot in the northwest portion of the Subject Property is level with an elevation of 28 feet amsl. The Subject Property is part of the coastal Trinidad Harbor and the Trinidad Little Head. Bay Street, which is the only surface street inlet, connects to Edwards Street to the north and the Trinidad Harbor parking lot.

There were seven above ground septic holding/treatment tanks located south of the public restroom/storage building and situated behind a chain linked fence. No visible leaks were identified and the system appeared to be working normally. There was one propane tank on the site, although it was older, it appeared to be in working condition and no leaks were identified. Multiple electrical boxes were located on the property but no transformers were located on the site. Electrical boxes included separate lines and meters for the restaurant, boat launch, and pier. The residence is likely to be metered separately as well with have underground hookups to the electrical boxes located near the restaurant. Behind the above ground septic holding/treatment tanks, a newer propane tank was identified along with nine plastic 55-gallon barrels currently used for holding bags of trash. No hazardous leaks were identified from the propane tank or the trash bins. A “North State Rendering Co., Inc.” grease bin was located behind the restaurant and no leaks were noticed. Next to the grease bin, two 55-gallon metal drums were noted; one of which contained the
3.0 Site Reconnaissance and Interviews

Photo 1: Facing northeast towards the Seascape restaurant and outbuildings.

Photo 2: Facing west towards the Seascape restaurant and outbuildings.
3.0 Site Reconnaissance and Interviews

Photo 3: Propane tank and 55 gallon drums used as trash storage behind Seascape restaurant.

Photo 4: Septic tank system at the Subject Property
following label, “Denali Ingredients Strawberry Ripple Artificially Flavored 79 3304.” Upon further research, this drum was originally used for food grade flavoring for the restaurant. Currently, it appears the drum is used for additional storage of grease as the sides and near the bottom of the drum showed signs of an oil/grease substance which repelled water. The second drum did not have a visible label and also appeared to be used for grease/oil storage. Some grease appeared to have leaked onto the cement pad where the drums and grease container were stored. The grease noticed on and near the barrels appears to be food-grade fryer grease, typical of restaurant use.

3.3 ADJACENT PROPERTIES
A survey of adjacent properties was performed to the extent possible without trespassing during the November 2015 site visit. The purpose was to identify adjacent land uses to determine if such uses and associated activities could affect the future uses of the Subject Property. Adjacent land uses included a combination of residential and undeveloped parcels (including coastline and bluffs.) Uses of adjacent properties appeared to be consistent with surrounding residential land uses, however the Subject Property is used as a commercial/ recreational area.

3.4 INTERVIEWS AND QUESTIONNAIRES
A standard property owner questionnaire and user questionnaire were completed.
SECTION 4.0
RECORDS REVIEW

4.1 DATABASE SEARCH

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination for sites and listings up to 1.0 mile from a point roughly equivalent to the center of the Subject Property. The environmental database review was accomplished by using the services of a computerized search firm, EDR. EDR uses a geographic information system to plot locations of past or current hazardous materials involvement. The EDR report was reviewed to determine if the Subject Property or adjacent sites are listed on regulatory agency databases. The purpose is to determine if adjacent sites contain RECs that would impact surface and/or subsurface conditions on the Subject Property. The complete list of reviewed databases is provided in the EDR report, included in Attachment A, and the databases with listed sites are presented in Table 4-1. In addition, information on past and/or current hazardous materials involvement involving adjacent properties is summarized in Section 4.2.2.

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<td>Office of Emergency Services (OES) California Hazardous Materials Incident Report System (CHMIRS)</td>
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<tr>
<td>Cal EPA Certified Unified Program Agency (CUPA) lists</td>
<td>0.25 miles</td>
<td>Yes</td>
<td>4</td>
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<tr>
<td>Emissions Inventory Data (EMI)</td>
<td>0.001 miles</td>
<td>No</td>
<td>2</td>
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<tr>
<td>Enforcement Action Listing (ENF)</td>
<td>0.001 miles</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>Facility and Manifest Data (HAZNET)</td>
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<td>2</td>
</tr>
<tr>
<td>CalEPA Historic Cortese (HIST CORTESE)</td>
<td>0.5 miles</td>
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<td>2</td>
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<td>CA, National Pollutant Discharge Elimination System (NPDES)</td>
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<td>2</td>
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<tr>
<td>CA Waste Discharge System (WDS)</td>
<td>0.001 miles</td>
<td>No</td>
<td>2</td>
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<tr>
<td>RGA Solid Waste Facilities List (LF)</td>
<td>0.001 miles</td>
<td>No</td>
<td>1</td>
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</table>

Source: EDR, 2015 (Attachment A)
4.2 HAZARDOUS MATERIALS INVOLVEMENT

A regulatory agency database search was performed to identify locations of past and/or current hazardous materials involvement. Although a site may be listed within the database report, this does not mean the site is currently contaminated or will impact the environmental quality of any Subject Property and would be considered a REC. It should be noted that the database search is only as accurate as the data entered into the government agency-maintained databases and the date on which those databases were last updated. Installation of USTs or hazardous material releases, if not reported to the appropriate agency, would not be listed on any of the databases searched.

4.2.1 Subject Property

The Subject Property, or portions thereof, is listed on eight databases searched through the EDR report or the SWRCB Geotracker website report (Attachment A). The Subject Property is listed on the SWRCB LUST, EPA US BROWNFIELDS, SWEEPS UST, EPA FINDS, EPA CUPA, HAZNET, HIST CORTESE, and NPDES databases.

1 Bay Street, also referred to as Bob’s Boat Basin, Trinidad Harbor, and Trinidad Pier Site. The case was opened and reported on 2/19/1999 and a gasoline tank leak was identified and stopped. An aquifer used for drinking water supply was the only potential media contaminated. In 2002, technical correspondence regarding site clean up began. Cleanup and site closure was completed on 1/21/2003. This site does not constitute an REC and will not impact future uses of the Subject Property because it was properly remediated and closed under the agencies closing policies.

97 Bay Street, also referred to as DG Fairhaven Power Company, DG Fairhaven Power, and Fairhaven Power Plant, is listed on the ERNS, EMI, CHMIRS, ENF, WDS, AST, NPDES, CUPA Listings, FINDS, and US AIRS lists. 97 Bay Street is located on the Subject Property near the center on the northern portion of the paved parking lot. The ERNS listing had no additional information in the EDR report describing the hazard. The EMI and CHMIRS listing reports an incident and ongoing release from a particular source. In 1996, a possible rain and wind storm caused damage to plastic piping resulting in a release of 850 gallons of sulfuric acid. This incident has been reported through the EMI database from 2006 to 2013 by the North Coast Unified Air Quality Management District (AQMD) (EDR, 2015). This incident would only pose an adverse health impact in the immediate vicinity of the release and through direct inhalation of released chemicals. In 2000, CHMIRS notes a malfunctioning nozzle on a storage tank leaked and spilled 80 gallons of diesel fuel. Humboldt County Environmental Health reported the incident cleaned up and contained. The Fairhaven Power Plant is a historical NPDES permit holder (Permit number: CA0024571) which includes an industrial facility that treats and disposes liquid or semisolid wastes from any servicing, producing, manufacturing, or processing operation of whatever nature. This includes mining, gravel washing, geothermal operations, air conditioning, shipbuilding and repairing, oil production, storage and disposal operations, water pumping, and other potential activities. The facility’s
status is active, which is defined as any facility that has a continuous or seasonal discharge under Waste Discharge Requirements. This listing does not constitute an REC because it has been remediated. Its active listing for a NPDES permit does not pose a significant risk to the Subject Property.

4.2.2 Adjacent Properties

The EDR report listed 25 sites (39 listings) within 1.0 mile of the Subject Property (Attachment A). Many of the sites are duplicates as different agencies may refer to the same site under a different name/title. Sites 1 through 5 are located at 1 Bay Street (discussed above), 6 through 14 are located at 97 Bay Street (discussed above), and sites 18 and 19 are located at 806 Edwards Street; therefore, only 12 separately identified sites (on 39 listings) were reported within 1.0 mile of the Subject Property.

888 Galindo Street is known as a “Residence Furnace” located approximately 190 feet north of the Subject Property and is listed on the HIST UST and SWEEPS UST for two 500-gallon storage tanks containing diesel fuel. This listing does not include information about leaks or spills and does not constitute an REC for the Subject Property due to its nature of a furnace for a residence.

A “Private Residence” between Edwards Street and Van Wycke Street is listed under the LUST listing for a heating fuel leak that was reported and opened on January 5, 2004. The leak was stopped and cleaned up on November 25, 2003 and no further action was required. This case is closed and considered completed and does not pose a significant risk to the Subject Property.

807 Edwards Street, also referred to as “Partee, Roy R.,” is listed under HIST UST and SWEEPS UST for a storage tank installed in 1970. This is an active site and no known leaks or spills have occurred within this site. This site does not pose a risk to the Subject Property and does not constitute an REC.

At 806 Edwards Street, two incidents occurred where the installation of a storage tank under the name “Trinidad House” in 1974, and in 1995 a leak was reported under the site name “Tooby Residence.” In 1995, the site was open and under assessment. In 1998, the site was under verification monitoring and the case begin date was in June of 1998. Cleanup began and was closed in 1998 with a closed/completed date of June 25, 1998. The contaminant was diesel and the media affected was soil. This site is closed and does not pose a threat to the Subject Property.

570 Ewing Street is located 891 feet from the Subject Property and is known as the “HSU Teloniche Marine Laboratory” and is listed as a hazardous materials generator. This site is active and ongoing and no spills or leaks have been associated or reported with this site to date. This site does not pose a risk to the Subject Property and does not constitute an REC.

470 Oceans Avenue, also known as “Citizen’s Mortuary”, is listed under the LUST listing and no further details have been described in the EDR report.
409 Trinity Street is located 1051 feet northeast of the Subject Property and is listed as having a HIST UST and a current NPDES permit. No leaks or spills have been reported with this site. Thus, it does not pose a risk to the Subject Property or constitute an REC.

408 Wagner Street, also known as “Cox Duane” site, is listed under HIST UST and SWEEPS UST for a storage fuel tank installed in 1971 with leaded fuel and a capacity of 500 gallons. No leaks or spills have been reported or associated with this site and thus this site does not constitute an REC or a risk to the Subject Property.

Trinidad Union School site, located at 300 Trinity Street, is listed under the SWEEPS UST as having three, 500-gallon fuel tanks in which no leaks or spills have been associated. This site does not pose a risk to the Subject Property and does not constitute and REC.
SECTION 5.0
FINDINGS AND CONCLUSIONS

This Phase I ESA was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-13.

5.1 FINDINGS

Based on information gathered while conducting this Phase I ESA, the following environmental findings are provided:

- The Subject Property is developed with nine structures including a driveway.
- During the site reconnaissance, no visible evidence of stained soils, odors, or past hazardous releases were observed within the Subject Property.
- No Controlled Recognized Environmental Conditions (CRECs) or Historical Recognized Environmental Conditions (HRECs) have been identified on the Subject Property, and the site is not subject to control or use restriction related to hazardous materials involvement.
- It is not likely that documented off-site listed hazardous materials sites pose a material risk to human health or the environment on the Subject Property due to either case closure of the listed incident or the distance/gradient from the Subject Property to the listed incident.

5.2 CONCLUSIONS

This Phase I ESA was prepared in conformance with the scope and limitations of ASTM Practice E 1527-13. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. Based on the site conditions during the November 19, 2015 site reconnaissance and information in the EDR report (Attachment A), no RECs were identified on or in the immediate vicinity of the Subject Property that would likely pose a significant impact to the environmental integrity of the Subject Property. No additional subsurface hazardous materials investigation of the properties is recommended at this time.
SECTION 6.0  
REPORT AUTHORS AND REFERENCES

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. Trenton Wilson, Site Assessors, prepared this report under the professional supervision of David Zweig, Professional Engineer (P.E.), who qualifies as an environmental professional (EP) as defined in the ASTM Standard E1527-13, and have the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property.

REPORT PREPARATION

Analytical Environmental Services
1801 7th Street, Suite 100
Sacramento, CA 95811

Site Assessor: ______________________________
   Trenton Wilson

Senior Reviewer: ______________________________
   David Zweig, P.E.
REFERENCES


Department of Water Resources (DWR), 2015. Water resources, well data, findings. Available online at: http://www.water.ca.gov/waterdatalibrary/.

Environmental Data Resources, Inc. (EDR), Radius Map Report with GeoCheck, Inquiry No.4483869.2s, dated December 4, 2015.

EDR, 2015. EDR Lightbox Interactive Database. 97 Bay Street, Samoa, CA 95564. Available online at: http://www.web.ednet.com/ordering/lightbox/lightboxsiteview.aspx?tsguid=5f4fd6a3-bab7-4bc5-8b62-c95c13461bc8


Trinidad Harbor
1 Bay Street
Trinidad, CA 95570

Inquiry Number: 4483869.2s
December 04, 2015
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.
A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA’s Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

**TARGET PROPERTY INFORMATION**

**ADDRESS**

1 BAY STREET  
TRINIDAD, CA 95570

**COORDINATES**

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<th>Description</th>
<th>Value</th>
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<td>Longitude (West):</td>
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<td>Universal Tranverse Mercator: Zone 10</td>
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**USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY**

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**AERIAL PHOTOGRAPHY IN THIS REPORT**

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Target Property Address:
1 BAY STREET
TRINIDAD, CA 95570

Click on Map ID to see full detail.

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<th>MAP ID</th>
<th>SITE NAME</th>
<th>ADDRESS</th>
<th>DATABASE ACRONYMS</th>
<th>RELATIVE ELEVATION</th>
<th>DIST (ft. &amp; mi.)</th>
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<tr>
<td>A1</td>
<td>BOB'S BOAT BASIN</td>
<td>1 BAY STREET</td>
<td>RGA LUST</td>
<td>Higher</td>
<td>1 ft.</td>
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<td>A2</td>
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<td>LUST, SWEEPS UST, CUPA Listings, HIST CORTESE,...</td>
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<td>US BROWNFIELDS, FINDS</td>
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<td>ERNS</td>
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</tr>
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</tr>
<tr>
<td>B2</td>
<td>HSU TELONICHER MARIN</td>
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<td>409 TRINITY STREET</td>
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<td>25</td>
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TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

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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
- CERCLIS................... Comprehensive Environmental Response, Compensation, and Liability Information System

Federal CERCLIS NFRAP site List
- CERCLIS-NFRAP............. CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list
- CORRACTS.................... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list
- RCRA-TSDF................. RCRA - Treatment, Storage and Disposal

Federal RCRA generators list
- RCRA-LQG................... RCRA - Large Quantity Generators
- RCRA-SQG................... RCRA - Small Quantity Generators
- RCRA-CESQG............... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries
- LUCIS......................... Land Use Control Information System
- US ENG CONTROLS......... Engineering Controls Sites List
- US INST CONTROL......... Sites with Institutional Controls

State- and tribal - equivalent NPL
- RESPONSE..................... State Response Sites

State- and tribal - equivalent CERCLIS
- ENVIROSTOR............... EnviroStor Database
**EXECUTIVE SUMMARY**

*State and tribal landfill and/or solid waste disposal site lists*
SWF/LF................. Solid Waste Information System

*State and tribal leaking storage tank lists*
INDIAN LUST............... Leaking Underground Storage Tanks on Indian Land
SLIC...................... Statewide SLIC Cases

*State and tribal registered storage tank lists*
FEMA UST,................. Underground Storage Tank Listing
UST....................... Active UST Facilities
INDIAN UST................. Underground Storage Tanks on Indian Land

*State and tribal voluntary cleanup sites*
VCP....................... Voluntary Cleanup Program Properties
INDIAN VCP............... Voluntary Cleanup Priority Listing

*State and tribal Brownfields sites*
BROWNFIELDS.............. Considered Brownfields Sites Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

*Local Lists of Landfill / Solid Waste Disposal Sites*
WMUDS/SWAT.............. Waste Management Unit Database
SWRCY..................... Recycler Database
HAULERS.................. Registered Waste Tire Haulers Listing
INDIAN ODI............... Report on the Status of Open Dumps on Indian Lands
ODI....................... Open Dump Inventory
DEBRIS RÉGION 9........... Torres Martinez Reservation Illegal Dump Site Locations

*Local Lists of Hazardous waste / Contaminated Sites*
US HIST CDL.............. National Clandestine Laboratory Register
HIST Cal-Sites,............ Historical Calsites Database
SCH....................... School Property Evaluation Program
CDL....................... Clandestine Drug Labs
Toxic Pits................ Toxic Pits Cleanup Act Sites
US CDL................... Clandestine Drug Labs

*Local Lists of Registered Storage Tanks*
CA FID UST.............. Facility Inventory Database

*Local Land Records*
LIENS..................... Environmental Liens Listing
LIENS 2................... CERCLA Lien Information
DEED...................... Deed Restriction Listing
EXECUTIVE SUMMARY

Records of Emergency Release Reports
HMIRS.......................... Hazardous Materials Information Reporting System
LDS.............................. Land Disposal Sites Listing
MCS.............................. Military Cleanup Sites Listing
SPILLS 90......................... SPILLS 90 data from FirstSearch

Other Ascertainable Records
RCRA NonGen / NLR............. RCRA - Non Generators / No Longer Regulated
FUDS............................ Formerly Used Defense Sites
DOD.............................. Department of Defense Sites
SCRD DRYCLEANERS.......... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.................. Financial Assurance Information
EPA WATCH LIST................. EPA WATCH LIST
2020 COR ACTION.............. 2020 Corrective Action Program List
TSCA............................ Toxic Substances Control Act
TRIS............................. Toxic Chemical Release Inventory System
SSTS............................. Section 7 Tracking Systems
ROD.............................. Records Of Decision
RMP.............................. Risk Management Plans
RAATS......................... RCRA Administrative Action Tracking System
PRP.............................. Potentially Responsible Parties
PADS............................ PCB Activity Database System
ICIS.............................. Integrated Compliance Information System
FTTS............................ FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS............................ Material Licensing Tracking System
COAL ASH DOE................. Steam-Electric Plant Operation Data
COAL ASH EPA.................. Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER............ PCB Transformer Registration Database
RADINFO.................... Radiation Information Database
HIST FTTS...................... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS........................ Incident and Accident Data
CONSENT...................... Superfund (CERCLA) Consent Decrees
INDIAN RESERV................ Indian Reservations
UMTRA......................... Uranium Mill Tailings Sites
LEAD SMELTERS.............. Lead Smelter Sites
US MINES....................... Mines Master Index File
CA BOND EXP. PLAN............ Bond Expenditure Plan
Cortese........................ "Cortese" Hazardous Waste & Substances Sites List
DRYCLEANERS................ Cleaner Facilities
Financial Assurance.......... Financial Assurance Information Listing
HWP............................. EnviroStor Permitted Facilities Listing
HWT............................. Registered Hazardous Waste Transporter Database
MINES........................... Mines Site Location Listing
MMWP............................ Medical Waste Management Program Listing
PEST LIC...................... Pesticide Regulation Licenses Listing
PROC............................ Certified Processors Database
Notify 65...................... Proposition 65 Records
UIC......................... UIC Listing
WASTEWATER PITS........... Oil Wastewater Pits Listing
WIP......................... Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records
EDR MGP....................... EDR Proprietary Manufactured Gas Plants
EXECUTIVE SUMMARY

EDR Hist Auto, EDR Exclusive Historic Gas Stations
EDR Hist Cleaner, EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives
RGA LF. Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

**Federal ERNS list**

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 06/22/2015 has revealed that there is 1 ERNS site within approximately 0.001 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not reported</td>
<td>97 BAY ST</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A6</td>
<td>18</td>
</tr>
</tbody>
</table>

**State and tribal leaking storage tank lists**

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 10/21/2015 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIVATE RESIDENCE</td>
<td>PRIVATE RESIDENCE</td>
<td>NE 0 - 1/8 (0.052 mi.)</td>
<td>B16</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>Global Id: T0602331889</td>
<td>Status: Completed - Case Closed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOOBY RESIDENCE</td>
<td>806 EDWARDS</td>
<td>NE 0 - 1/8 (0.064 mi.)</td>
<td>B19</td>
<td>85</td>
</tr>
</tbody>
</table>
EXECUTIVE SUMMARY

Global Id: T0602300406
Status: Completed - Case Closed
Facility Id: 1THU542
CITIZEN’S MORTUARY
Facility Id: 1THU245

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not reported</td>
<td>97 BAY ST</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A11</td>
<td>41</td>
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</tbody>
</table>

ADDITIONAL ENVIRONMENTAL RECORDS

LOCAL LISTS OF REGISTERED STORAGE TANKS

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990’s. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 5 SWEEPS UST sites within approximately 0.25 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDENCE FURNACE</td>
<td>888 GALINDO</td>
<td>NNE 0 - 1/8 (0.032 mi.)</td>
<td>15</td>
<td>81</td>
</tr>
<tr>
<td>Status: A</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Tank Status: A</td>
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<tr>
<td>Comp Number: 14730</td>
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<tr>
<td>PARTEE, ROY R.</td>
<td>807 EDWARDS</td>
<td>NE 0 - 1/8 (0.062 mi.)</td>
<td>B17</td>
<td>84</td>
</tr>
<tr>
<td>Status: A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tank Status: A</td>
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<tr>
<td>Comp Number: 18486</td>
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</tr>
<tr>
<td>TOOBY RESIDENCE</td>
<td>806 EDWARDS</td>
<td>NE 0 - 1/8 (0.064 mi.)</td>
<td>B19</td>
<td>85</td>
</tr>
<tr>
<td>Status: A</td>
<td></td>
<td></td>
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<tr>
<td>Tank Status: A</td>
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<tr>
<td>Comp Number: 9992</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>COX DUANE</td>
<td>408 WAGNER ST</td>
<td>ENE 1/8 - 1/4 (0.213 mi.)</td>
<td>C23</td>
<td>93</td>
</tr>
<tr>
<td>Comp Number: 1016</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRINIDAD UNION SCHOO</td>
<td>300 TRINITY ST</td>
<td>NE 1/8 - 1/4 (0.250 mi.)</td>
<td>25</td>
<td>95</td>
</tr>
</tbody>
</table>
EXECUTIVE SUMMARY

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 5 HIST UST sites within approximately 0.25 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDENCE FURNACE</td>
<td>888 GALINDO</td>
<td>NNE 0 - 1/8 (0.032 mi.)</td>
<td>15</td>
<td>81</td>
</tr>
<tr>
<td>PARTEE, ROY R.</td>
<td>807 EDWARDS</td>
<td>NE 0 - 1/8 (0.062 mi.)</td>
<td>B17</td>
<td>84</td>
</tr>
<tr>
<td>TRINIDAD HOUSE</td>
<td>806 EDWARDS STREET</td>
<td>NE 0 - 1/8 (0.064 mi.)</td>
<td>B18</td>
<td>84</td>
</tr>
<tr>
<td>CITY OF TRINIDAD</td>
<td>409 TRINITY STREET</td>
<td>NE 1/8 - 1/4 (0.199 mi.)</td>
<td>22</td>
<td>89</td>
</tr>
<tr>
<td>COX DUANE</td>
<td>408 WAGNER ST</td>
<td>ENE 1/8 - 1/4 (0.213 mi.)</td>
<td>C23</td>
<td>93</td>
</tr>
</tbody>
</table>

Records of Emergency Release Reports

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 09/25/2015 has revealed that there are 2 CHMIRS sites within approximately 0.001 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG FAIRHAVEN POWER C</td>
<td>97 BAY STREET</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A7</td>
<td>19</td>
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<tr>
<td>Not reported</td>
<td>97 BAY ST</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A8</td>
<td>22</td>
</tr>
</tbody>
</table>

Other Ascertainable Records

US AIRS: 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.

A review of the US AIRS list, as provided by EDR, and dated 07/22/2015 has revealed that there is 1 US AIRS site within approximately 0.001 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG FAIRHAVEN POWER C</td>
<td>97 BAY ST</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A14</td>
<td>47</td>
</tr>
</tbody>
</table>
FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 07/20/2015 has revealed that there is 1 FINDS site within approximately 0.001 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG FAIRHAVEN POWER C</td>
<td>97 BAY STREET</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A13</td>
<td>46</td>
</tr>
</tbody>
</table>

CUPA Listings: 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.

A review of the CUPA Listings list, as provided by EDR, has revealed that there are 3 CUPA Listings sites within approximately 0.25 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG FAIRHAVEN POWER</td>
<td>97 BAY STREET</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A12</td>
<td>41</td>
</tr>
<tr>
<td>HSU TELONICHER MARIN</td>
<td>570 EWING ST</td>
<td>N 1/8 - 1/4 (0.169 mi.)</td>
<td>20</td>
<td>87</td>
</tr>
<tr>
<td>AT&amp;T - TRINIDAD</td>
<td>401 OCEAN AVENUE</td>
<td>NE 1/8 - 1/4 (0.233 mi.)</td>
<td>24</td>
<td>94</td>
</tr>
</tbody>
</table>

EMI: Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

A review of the EMI list, as provided by EDR, and dated 12/31/2013 has revealed that there are 2 EMI sites within approximately 0.001 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG FAIRHAVEN POWER C</td>
<td>97 BAY STREET</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A7</td>
<td>19</td>
</tr>
<tr>
<td>DG FAIRHAVEN POWER C</td>
<td>97 BAY ST</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A14</td>
<td>47</td>
</tr>
</tbody>
</table>
EXECUTIVE SUMMARY


A review of the ENF list, as provided by EDR, and dated 08/24/2015 has revealed that there is 1 ENF site within approximately 0.001 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG FAIRHAVEN POWER</td>
<td>97 BAY STREET</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A9</td>
<td>24</td>
</tr>
</tbody>
</table>

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOOBY RESIDENCE</td>
<td>806 EDWARDS</td>
<td>NE 0 - 1/8 (0.064 mi.)</td>
<td>B19</td>
<td>85</td>
</tr>
<tr>
<td>Reg Id: 1THU542</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NPDES: A listing of NPDES permits, including stormwater.

A review of the NPDES list, as provided by EDR, and dated 08/17/2015 has revealed that there is 1 NPDES site within approximately 0.001 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG FAIRHAVEN POWER</td>
<td>97 BAY STREET</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A12</td>
<td>41</td>
</tr>
<tr>
<td>Facility Status: Active</td>
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<tr>
<td>Facility Status: Terminated</td>
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<td></td>
</tr>
<tr>
<td>FAIRHAVEN POWER PLAN</td>
<td>97 BAY ST</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A10</td>
<td>40</td>
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<tr>
<td>Facility Status: A</td>
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</tr>
<tr>
<td>Facility Id: 1B85026NHUM</td>
<td></td>
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</tr>
</tbody>
</table>

WDS: California Water Resources Control Board - Waste Discharge System.

A review of the WDS list, as provided by EDR, and dated 06/19/2007 has revealed that there are 2 WDS sites within approximately 0.001 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG FAIRHAVEN POWER</td>
<td>97 BAY STREET</td>
<td>0 - 1/8 (0.000 mi.)</td>
<td>A9</td>
<td>24</td>
</tr>
<tr>
<td>Facility Status: A</td>
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<td>Facility Id: 121016487</td>
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<tr>
<td>FAIRHAVEN POWER PLAN</td>
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</tr>
</tbody>
</table>
Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Database(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMBOLDT STATE UNIV-MARIN</td>
<td>LUST, HIST CORTESE</td>
</tr>
<tr>
<td>TRINIDAD UNION ELEMENTARY</td>
<td>LUST, HIST CORTESE</td>
</tr>
<tr>
<td>CHEVRON #9-1728</td>
<td>LUST</td>
</tr>
<tr>
<td>PACIFIC BELL TE-034</td>
<td>LUST</td>
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</tbody>
</table>
# MAP FINDINGS SUMMARY

<table>
<thead>
<tr>
<th>Database</th>
<th>Search Distance (Miles)</th>
<th>Target Property</th>
<th>&lt; 1/8</th>
<th>1/8 - 1/4</th>
<th>1/4 - 1/2</th>
<th>1/2 - 1</th>
<th>&gt; 1</th>
<th>Total Plotted</th>
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</thead>
<tbody>
<tr>
<td><strong>STANDARD ENVIRONMENTAL RECORDS</strong></td>
<td></td>
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<tr>
<td><strong>Federal NPL site list</strong></td>
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<td>Proposed NPL</td>
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<td><strong>Federal CERCLIS list</strong></td>
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### State and tribal Brownfields sites

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### ADDITIONAL ENVIRONMENTAL RECORDS

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## EDR HIGH RISK HISTORICAL RECORDS

**EDR Exclusive Records**

- EDR MGP: 1.000
- EDR Hist Auto: 0.125
- EDR Hist Cleaner: 0.125

**EDR RECOVERED GOVERNMENT ARCHIVES**

**Exclusive Recovered Govt. Archives**

- RGA LF: 0.001
- RGA LUST: 0.001

- Totals --

|        | 10 | 22 | 7 | 0 | 0 | 0 | 39 |

**NOTES:**

- TP = Target Property
- NR = Not Requested at this Search Distance
- Sites may be listed in more than one database
### A1
**BOB’S BOAT BASIN**
**Target**
1 BAY STREET
**Property**
TRINIDAD, CA

Site 1 of 14 in cluster A

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**BOB’S BOAT BASIN**
**Target**
1 BAY ST
**Property**
TRINIDAD, CA 95570

Site 2 of 14 in cluster A

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Click here to access the California GeoTracker records for this facility:

Contact:
- **Global Id:** T0602300440
- **Contact Type:** Regional Board Caseworker
- **Contact Name:** HUMBOLDT COUNTY LOP CLOSED SITE
- **Organization Name:** NORTH COAST RWQCB (REGION 1)
- **Address:** 5550 SKYLANE BOULEVARD, SUITE A
- **City:** SANTA ROSA
- **Email:** Not reported
- **Phone Number:** Not reported

**Global Id:** T0602300440
**Contact Type:** Local Agency Caseworker
**Contact Name:** Mark Verhey
**Organization Name:** HUMBOLDT COUNTY LOP
BOB'S BOAT BASIN (Continued)

Address: 100 H Street, Suite 100
City: Eureka
Email: mark.verhey@co.humboldt.ca.us
Phone Number: Not reported

Status History:
- Global Id: T0602300440
  - Status: Completed - Case Closed
  - Status Date: 01/14/2003

- Global Id: T0602300440
  - Status: Open - Case Begin Date
  - Status Date: 02/19/1999

- Global Id: T0602300440
  - Status: Open - Site Assessment
  - Status Date: 05/07/1999

Regulatory Activities:
- Global Id: T0602300440
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    - Action Type: Other
    - Date: 02/19/1999

- Global Id: T0602300440
  - Action: Technical Correspondence / Assistance / Other
    - Action Type: ENFORCEMENT
    - Date: 01/21/2003

- Global Id: T0602300440
  - Action: Closure/No Further Action Letter
    - Action Type: ENFORCEMENT
    - Date: 01/14/2003

- Global Id: T0602300440
  - Action: Leak Discovery
    - Action Type: Other
    - Date: 02/19/1999

- Global Id: T0602300440
  - Action: Technical Correspondence / Assistance / Other
    - Action Type: ENFORCEMENT
    - Date: 07/12/2002

- Global Id: T0602300440
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    - Date: 07/12/2002

- Global Id: T0602300440
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    - Action Type: Other
    - Date: 02/19/1999
BOB'S BOAT BASIN (Continued)

LUST REG 1:
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Facility ID: 1THU635
Staff Initials: HUM

SWEEPS UST:
Status: Active
Comp Number: 18432
Number: 1
Board Of Equalization: 44-004979
Referral Date: 06-10-92
Action Date: 06-10-92
Created Date: 07-31-88
Owner Tank Id: 1
SWRCB Tank Id: 12-000-018432-000001
Tank Status: A
Capacity: 2000
Active Date: 06-10-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 2

Status: Active
Comp Number: 18432
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Board Of Equalization: 44-004979
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Created Date: 07-31-88
Owner Tank Id: 2
SWRCB Tank Id: 12-000-018432-000002
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Capacity: 3000
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Number Of Tanks: Not reported

CUPA HUMBOLDT:
Local Site Id: FA0002838
Facility Address 2: Not reported
Program Identifier: CUPA - SQG
Program Element Code Desc: 4401 Hazardous Waste Generator (SQG)
Permit Status: Active
Latitude: 41.05647
Longitude: -124.1473
CERS ID: 10021867

Local Site Id: FA0002838
Facility Address 2: Not reported
Program Identifier: CUPA - Hazardous Materials Facility Fee
Program Element Code Desc: 4202 Hazardous Materials Facility Fee
Permit Status: (none)
Latitude: 41.05647
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TC4483869.2s  Page 11
BOB'S BOAT BASIN (Continued)

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S103890437
BOB'S BOAT BASIN (Continued)

| 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: | 1/28/2010 |
| PROCESSED DATE: | 2/9/2010 |
| STATUS CODE NAME: | Active |
| STATUS DATE: | 2/9/2010 |
| PLACE SIZE: | 1.3 |
| PLACE SIZE UNIT: | Acres |
| FACILITY CONTACT NAME: | Greg Nesty |
| FACILITY CONTACT TITLE: | Not reported |
| FACILITY CONTACT PHONE: | 707-677-0211 |
| FACILITY CONTACT PHONE EXT: | Not reported |
| FACILITY CONTACT EMAIL: | Not reported |
| OPERATOR NAME: | Trinidad Rancheria |
| OPERATOR ADDRESS: | Not reported |
| OPERATOR CITY: | Not reported |
| OPERATOR STATE: | Not reported |
| OPERATOR ZIP: | Not reported |
| OPERATOR CONTACT NAME: | Not reported |
| OPERATOR CONTACT TITLE: | Not reported |
| OPERATOR CONTACT PHONE: | Not reported |
| OPERATOR CONTACT PHONE EXT: | Not reported |
| OPERATOR CONTACT EMAIL: | Not reported |
| OPERATOR TYPE: | Private Individual |
| DEVELOPER NAME: | GR Sundberg Inc |
| DEVELOPER ADDRESS: | 5211 Boyd Rd |
| DEVELOPER CITY: | Arcata |
| DEVELOPER STATE: | California |
| DEVELOPER ZIP: | 95521 |
| DEVELOPER CONTACT NAME: | Randy Sundberg |
| DEVELOPER CONTACT TITLE: | Not reported |
| CONSTYPE LINEAR UTILITY IND: | Not reported |
| EMERGENCY PHONE NO: | 707-601-7866 |
| EMERGENCY PHONE EXT: | Not reported |
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| CONSTYPE ELECTRICAL LINE IND: | Not reported |
| CONSTYPE GAS LINE IND: | Not reported |
| CONSTYPE INDUSTRIAL IND: | Not reported |
| CONSTYPE OTHER DESRIPTION: | Not reported |
| CONSTYPE OTHER IND: | Not reported |
| CONSTYPE RECONS IND: | Not reported |
| CONSTYPE RESIDENTIAL IND: | Not reported |
| CONSTYPE TRANSPORT IND: | Not reported |
| CONSTYPE UTILITY DESCRIPTION: | Not reported |
| CONSTYPE UTILITY IND: | Not reported |
BOB’S BOAT BASIN (Continued)

CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: Y
RECEIVING WATER NAME: Pacific Ocean
CERTIFIER NAME: Greg Nesty
CERTIFIER TITLE: Project Manager
CERTIFICATION DATE: 10-JUN-10
PRIMARY SIC: Not reported
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

A3 TRINIDAD HARBOR HAZNET S113020450
Target 1 BAY ST Property TRINIDAD, CA  95570

Site 3 of 14 in cluster A

Actual: 35 ft.

HAZNET:

envid: S113020450
Year: 2006
GEPAID: CAH111001051
Contact: RON SUNDBERG
Telephone: 7075990107
Mailing Name: Not reported
Mailing Address: PO BOX 630
Mailing City,St,Zip: TRINIDAD, CA 95570
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Recovery (H010-H129) Or (H131-H135)
Tons: 0.2
Facility County: Humboldt

A4 TRINIDAD HARBOR HAZNET S113124133
Target 1 BAY ST Property TRINIDAD, CA  95570

Site 4 of 14 in cluster A

Actual: 35 ft.

HAZNET:

envid: S113124133
Year: 2012
GEPAID: CAL000264427
Contact: JONAS SAVAGE/ENVIRONMENTAL DIR
Telephone: 7076770211
Mailing Name: Not reported
Mailing Address: PO BOX 630
Mailing City,St,Zip: TRINIDAD, CA 955700000
Gen County: Humboldt
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.45036
Facility County: Humboldt
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TRINIDAD HARBOR (Continued)

Mailing Address: PO BOX 630
Mailing City, St, Zip: TRINIDAD, CA 955700000
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site–No Treatment/Reovery
(H010-H129) Or (H131-H135)
Tons: 0.2
Facility County: Humboldt

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

A5 TRINIDAD PIER SITE US BROWNFIELDS FINDS 1016361786
Target Property
1 BAY STREET 1016361786
TRINIDAD, CA 95570

Site 5 of 14 in cluster A

Actual: 35 ft.
US BROWNFIELDS:
Recipient name: Cher-Ae Heights Indian Community of the Trinidad Rancheria
Grant type: Cleanup
Property name: TRINIDAD PIER SITE
Property #: Not reported
Parcel size: .33
Property Description: Commercial fishing pier
Latitude: 41.05742600000001
Longitude: -124.14856880000002
HCM label: Address Matching-House Number
Map scale: Not reported
Point of reference: Center of a Facility or Station
Datum: North American Datum of 1983
ACRES property ID: 108089
Start date: 09/01/2011 00:00:00
Completed date: 07/30/2012 00:00:00
Acres cleaned up: .33
Cleanup funding: 200000
Cleanup funding source: US EPA - Brownfields Cleanup Cooperative Agreement
Assessment funding: Not reported
Assessment funding source: Not reported
Redevelopment funding: Not reported
Redev. funding source: Not reported
Redev. funding entity name: Not reported
Redevelopment start date: Not reported
Assessment funding entity: Not reported
Cleanup funding entity: EPA
Grant type: H
Accomplishment type: Not reported
Accomplishment count: 0
Cooperative agreement #: 00T18401
Ownership entity: Government
Current owner: Trinidad Rancheria
Did owner change: N
Cleanup required: Yes
Video available: No
Photo available: Yes
Institutional controls required: Y
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### TRINIDAD PIER SITE (Continued)

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mercury cleaned up: Not reported  
nickel cleaned up: Not reported  
No clean up: Not reported  
Pesticides cleaned up: Not reported  
Selenium cleaned up: Not reported  
SVOCs cleaned up: Not reported  
Unknown clean up: Not reported  
Arsenic contaminant found: Not reported  
Cadmium contaminant found: Not reported  
Chromium contaminant found: Not reported  
Copper contaminant found: Not reported  
Iron contaminant found: Not reported  
Mercury contaminant found: Not reported  
Nickel contaminant found: Not reported  
No contaminant found: Not reported  
Pesticides contaminant found: Not reported  
Selenium contaminant found: Not reported  
SVOCs contaminant found: Not reported  
Unknown contaminant found: Not reported  
Future Use: Multistory Not reported  
Media affected Bluiding Material: Not reported  
Media affected indoor air: Not reported  
Building material media cleaned up: Not reported  
Indoor air media cleaned up: Not reported  
Unknown media cleaned up: Not reported  
Past Use: Multistory Not reported

**FINDS:**

Registry ID: 110045009539

Environmental Interest/Information System

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) 
is an federal online database for Brownfields Grantees to 
electronically submit data directly to EPA.

---

**Site 6 of 14 in cluster A**

**Relative:** Higher  
**Actual:** 38 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.
### A7 - DG FAIRHAVEN POWER COMPANY

**Address:** 97 BAY STREET  
**City:** SAMOA, CA  95564

- **Relative:** Higher  
- **Actual:** 38 ft.

**What Happened:** Not reported

**Containment:** local haz mat team/priv contractor

**Vehicle Id Number:** Not reported

**Vehicle State:** Not reported

**Vehicle License Number:** Not reported

**Vehicle Make/year:** Not reported

**Vehicle Id Number:** Not reported

**Vehicle Id Number:** Not reported

**Company Name:** Not reported

**Report Date:** Not reported

**Facility Telephone:** Not reported

**Waterway Involved:** YES

**Waterway:** Not reported

**Spill Site:** Not reported

**Cleanup By:** local haz mat team/priv contractor

**Containment:** Not reported

**What Happened:** Not reported

**Type:** CHEMICAL

**Measure:** Not reported

**Other:** Not reported

**Date/Time:** Not reported

**Year:** 1996

**Agency:** fairhaven power

**Incident Date:** 0900 10Dec96

**Admin Agency:** Not reported

**Amount:** 850 gals

**Contained:** NO

**Site Type:** OTHER

**E Date:** Not reported

**Substance:** Not reported

**Unknown:** Not reported

**Substance #2:** Not reported

**Substance #3:** Not reported

**Evacuations:** NO

---

**Relative:** Higher  
**Actual:** 38 ft.

**OES Incident Number:** 16893

**OES notification:** Not reported

**OES Date:** 12/10/1996

**OES Time:** 11:31:08 AM

**Date Completed:** Not reported

**Property Use:** Not reported

**Agency Id Number:** Not reported

**Agency Incident Number:** Not reported

**Time Notified:** Not reported

**Time Completed:** Not reported

**Surrounding Area:** Not reported

**Estimated Temperature:** Not reported

**Property Management:** Not reported

**More Than Two Substances Involved?:** Not reported

**Responding Agency Personnel # Of Decontaminated:** Not reported

**Responding Agency Personnel # Of Injuries:** Not reported

**Responding Agency Personnel # Of Fatalities:** Not reported

**Others Number Of Decontaminated:** Not reported

**Others Number Of Injuries:** Not reported

**Others Number Of Fatalities:** Not reported

**Vehicle License Number:** Not reported

**Vehicle State:** Not reported

**Vehicle Make/year:** Not reported

**Vehicle Id Number:** Not reported

**CA DOT PUC/ICC Number:** Not reported

**Company Name:** Not reported

**Reporting Officer Name/ID:** Not reported

**Report Date:** Not reported

**Facility Telephone:** Not reported

**Waterway Involved:** YES

**Waterway:** Not reported

**Spill Site:** Not reported

**Cleanup By:** local haz mat team/priv contractor

**Containment:** Not reported

**What Happened:** Not reported

**Type:** CHEMICAL

**Measure:** Not reported

**Other:** Not reported

**Date/Time:** Not reported

**Year:** 1996

**Agency:** fairhaven power

**Incident Date:** 0900 10Dec96

**Admin Agency:** Not reported

**Amount:** 850 gals

**Contained:** NO
DG FAIRHAVEN POWER COMPANY (Continued)

Number of Injuries: NO
Number of Fatalities: NO
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatal: Not reported
Comments: Not reported
Description: wind and rain storm possibly caused the plastic piping to come apart resulting in release.

EMI:
Year: 2006
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: A
Total Organic Hydrocarbon Gases Tons/Yr: 35.24240276453819840
Reactive Organic Gases Tons/Yr: 15.4501584107
Carbon Monoxide Emissions Tons/Yr: 1095.6877312
SOX - Oxides of Nitrogen Tons/Yr: 137.600925
SOX - Oxides of Sulphur Tons/Yr: 22.6277896
Particulate Matter Tons/Yr: 10.838
Part. Matter 10 Micrometers & Smlr Tons/Yr: 10.805486

Year: 2007
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 55.688997
Reactive Organic Gases Tons/Yr: 24.4165426589
Carbon Monoxide Emissions Tons/Yr: 1725.099028
NOX - Oxides of Nitrogen Tons/Yr: 200.25537
SOX - Oxides of Sulphur Tons/Yr: 35.5061772
Particulate Matter Tons/Yr: 39.2362692
Part. Matter 10 Micrometers & Smlr Tons/Yr: 39.2362692

Year: 2008
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
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<th>Reactive Organic Gases Tons/Yr</th>
<th>Carbon Monoxide Emissions Tons/Yr</th>
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<th>SOX - Oxides of Sulphur Tons/Yr</th>
<th>Particulate Matter Tons/Yr</th>
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DG FAIRHAVEN POWER COMPANY (Continued)
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<th>Site 8 of 14 in cluster A</th>
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**DG FAIRHAVEN POWER COMPANY** (Continued)

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<td>Particulate Matter Tons/Yr:</td>
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<td>Part. Matter 10 Micrometers &amp; Smllr Tons/Yr:</td>
<td>28.384720715</td>
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| Year:                                          | 2012                         |
| County Code:                                   | 12                           |
| Air Basin:                                     | NC                           |
| Facility ID:                                   | 96                           |
| Air District Name:                             | NCU                          |
| SIC Code:                                      | 4911                         |
| Air District Name:                             | NORTH COAST UNIFIED AQMD     |
| Community Health Air Pollution Info System:    | Not reported                 |
| Consolidated Emission Reporting Rule:          | Not reported                 |
| Total Organic Hydrocarbon Gases Tons/Yr:       | 44.196927695                 |
| Reactive Organic Gases Tons/Yr:                | 19.380746825                 |
| Carbon Monoxide Emissions Tons/Yr:             | 1368.860004                  |
| NOX - Oxides of Nitrogen Tons/Yr:              | 159.9537271                  |
| SOX - Oxides of Sulphur Tons/Yr:               | 28.2010145                   |
| Particulate Matter Tons/Yr:                    | 31.475035672                 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr:   | 31.380907305                 |

| Year:                                          | 2013                         |
| County Code:                                   | 12                           |
| Air Basin:                                     | NC                           |
| Facility ID:                                   | 96                           |
| Air District Name:                             | NCU                          |
| SIC Code:                                      | 4911                         |
| Air District Name:                             | NORTH COAST UNIFIED AQMD     |
| Community Health Air Pollution Info System:    | Not reported                 |
| Consolidated Emission Reporting Rule:          | Not reported                 |
| Total Organic Hydrocarbon Gases Tons/Yr:       | 44.196927695                 |
| Reactive Organic Gases Tons/Yr:                | 19.380746825                 |
| Carbon Monoxide Emissions Tons/Yr:             | 1368.860004                  |
| NOX - Oxides of Nitrogen Tons/Yr:              | 159.9537271                  |
| SOX - Oxides of Sulphur Tons/Yr:               | 28.2010145                   |
| Particulate Matter Tons/Yr:                    | 31.475035672                 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr:   | 31.380907305                 |

**CHMIRS Information**

- **OES Incident Number:** 0-5352
- **OES notification:** 11/15/2000
- **OES Date:** Not reported
- **OES Time:** Not reported

**Relative Elevation:**

- **Relative:** Higher
- **Actual:** 38 ft.

**Surrounding Features:**

- **Property Use:** Not reported
- **Agency Id Number:** Not reported
- **Agency Incident Number:** Not reported
- **Time Notified:** Not reported
- **Time Completed:** Not reported
- **Estimated Temperature:** Not reported
- **Property Management:** Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Responsible Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 2000
Agency: Environet Control
Incident Date: 11/14/200012:00:00 AM
Admin Agency: Humboldt County Environmental Health
Amount: Not reported
Contained: Yes
Site Type: Industrial Plant
E Date: Not reported
Substance: diesel
Gallons: 80
Unknown: 0
Substance #2: Not reported
Substance #3: Not reported
Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatal: Not reported
Comments: Not reported
Description: Malfunctioning nozzle on a storage tank. All cleaned up.
**Site 9 of 14 in cluster A**

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<td>Place Type: Utility</td>
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<tr>
<td>Place Subtype: Power Plant</td>
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<td>Place Latitude: 40.79905</td>
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<td>Place Longitude: -124.20286</td>
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<tr>
<td>SIC Code 1: 4911</td>
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<tr>
<td>SIC Desc 1: Electric Services</td>
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<td>SIC Code 2: Not reported</td>
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<tr>
<td>SIC Desc 2: Not reported</td>
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DG FAIRHAVEN POWER (Continued)

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: Not reported
Individual/General: Not reported
Fee Code: Not reported
Direction/Voice: Not reported
Enforcement Id(EID): 373154
Region: 1
Order / Resolution Number: R1-2010-0010
Enforcement Action Type: 13267 Letter
Effective Date: 01/13/2010
Adoption/Issuance Date: 01/13/2010
Achieve Date: Not reported
Termination Date: 03/17/2010
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: 13267 Letter for FAIRHAVEN POWER COMPANY
Description: Also violation of Storm Water Permit.
Program: NPDESWW
Latest Milestone Completion Date: 3/17/2010
# Of Programs1: 1
Total Assessment Amount: $0.00
Initial Assessed Amount: $0.00
Liability $ Amount: $0.00
Project $ Amount: $0.00
Liability $ Paid: $0.00
Project $ Completed: $0.00
Total $ Paid/Completed Amount: $0.00
Region: 1
Agency Name: Not reported
Place Type: Utility
Place Subtype: Power Plant
Facility Type: Industrial
Agency Type: Not reported
# Of Agencies: Not reported
Place Latitude: 40.79905
Place Longitude: -124.20286
SIC Code 1: 4911
SIC Desc 1: Electric Services
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
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NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported

TC4483869.2s  Page 25
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<td>Description</td>
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<td>Program</td>
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DG FAIRHAVEN POWER (Continued)  S102823997

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# Of Programs: 1
Total Assessment Amount: $80,001.00
Initial Assessed Amount: $0.00
Liability $ Amount: $80,001.00
Project $ Amount: $0.00
Liability $ Paid: $80,001.00
Project $ Completed: $0.00
Total $ Paid/Completed Amount: $80,001.00

Region: 1
Facility Id: 613197
Agency Name: DG Fairhaven Power LLC
Place Type: Utility
Place Subtype: Power Plant
Facility Type: Industrial
Agency Type: Other
# Of Agencies: 1
Place Latitude: 40.79905
Place Longitude: -124.20286
SIC Code 1: 4911
SIC Desc 1: Electric Services
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: 0.5
Threat To Water Quality: 2
Complexity: C
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Cooling water: Noncontact
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDINDSML
Program Category1: NPDESWW
Program Category2: NPDESWW
# Of Programs: 1
WDID: 1B85026NHUM
Reg Measure Id: 131729
Reg Measure Type: NPDES Permits
Region: 1
Order #: R1-2002-0076
Npdes# CA#: CA0024571
Major-Minor: Minor
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
## DG FAIRHAVEN POWER (Continued)

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DG FAIRHAVEN POWER (Continued)

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NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
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NAICS Desc 3: Not reported
# Of Places: 1
Source Of Facility: Reg Meas
Design Flow: 0.5
Threat To Water Quality: 2
Complexity: C
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Cooling water: Noncontact
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDESWW
Program Category1: NPDESWW
Program Category2: NPDESWW
# Of Programs: 1
WDID: 1B88026NHUM
Reg Measure Id: 131729
Reg Measure Type: NPDES Permits
Region: 1
Order #: R1-2002-0076
Npdes# CA#: CA0024571
Major-Minor: Minor
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 01/28/2014
Effective Date: 08/22/2002
Expiration/Review Date: 08/22/2012
Termination Date: 06/30/2012
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported
Status Enrollee: N
Individual/General: 1
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 352190
Region: 1
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 09/09/2008
Adoption/Issuance Date: 09/09/2008
Achieve Date: Not reported
Termination Date: Not reported
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
DG FAIRHAVEN POWER (Continued)  S102823997

Status: Active
Title: NOV for FAIRHAVEN POWER COMPANY
Description: Not reported
Program: NPDINDSML
Latest Milestone Completion Date: Not reported
# Of Programs1: 1
Total Assessment Amount: $0.00
Initial Assessed Amount: $0.00
Liability $ Amount: $0.00
Project $ Amount: $0.00
Liability $ Paid: $0.00
Project $ Completed: $0.00
Total $ Paid/Completed Amount: $0.00

Region: 1
Facility Id: 613197
Agency Name: DG Fairhaven Power LLC
Place Type: Utility
Place Subtype: Power Plant
Facility Type: Industrial
Agency Type: Other
# Of Agencies: 1
Place Latitude: 40.79905
Place Longitude: -124.20286
SIC Code 1: 4911
SIC Desc 1: Electric Services
SIC Code 2: Not reported
SIC Desc 2: Not reported
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SIC Desc 3: Not reported
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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: 0.5
Threat To Water Quality: 2
Complexity: C
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Cooling water: Noncontact
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDINDSML
Program Category1: NPDESWW
Program Category2: NPDESWW
# Of Programs: 1
WDID: 1B85026NHUM
Reg Measure Id: 131729
Reg Measure Type: NPDES Permits
Region: 1
Order #: R1-2002-0076
Npdes# CA#: CA0024571
Major-Minor: Minor
DG FAIRHAVEN POWER (Continued)

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Facility Id: 613197
Agency Name: DG Fairhaven Power LLC
Place Type: Utility
Place Subtype: Power Plant
Facility Type: Industrial
Agency Type: Other
# Of Agencies: 1
Place Latitude: 40.79905
Place Longitude: -124.20286
SIC Code 1: 4911
SIC Desc 1: Electric Services
SIC Code 2: Not reported
### DG FAIRHAVEN POWER (Continued)

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WORK AREA. MAY ENTER STREET DURING HEAVY RAINS.
INADEQUATE STORM WATER CONTROLS ALLOW ASH OFF INDUSTRIAL

Title: Enforcement - 1B85026NHUM DG Fairhaven Power

Description:

Program:

NPDESWW

# Of Programs:

1

Region:

1

Facility Id:

613197

Agency Name:

DG Fairhaven Power LLC

Place Type:

Utility

Place Subtype:

Power Plant

Facility Type:

Industrial

Agency Type:

Other

# Of Agencies:

1

Place Latitude:

40.79905

Place Longitude:

-124.20286

SIC Code 1:

4911

SIC Desc 1:

Electric Services

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 Code 2:

Not reported

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Not reported

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Not reported

NAICS Desc 1:

Not reported

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Not reported

NAICS Desc 3:

Not reported

NAICS Desc 4:

Not reported

# Of Places:

1

Source Of Facility:

Reg Meas

Design Flow:

0.5

Threat To Water Quality:

2

Complexity:

C

Pretreatment:

X - Facility is not a POTW

Facility Waste Type:

Cooling water: Noncontact

Facility Waste Type 2:

Not reported

Facility Waste Type 3:

Not reported

Facility Waste Type 4:

Not reported

Program:

NPDESWW

Program Category1:

NPDESWW

Program Category2:

NPDESWW

# Of Programs:

1

WDID:

1B85026NHUM

Reg Measure Id:

131729

Reg Measure Type:

NPDES Permits
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DG FAIRHAVEN POWER (Continued)

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DG FAIRHAVEN POWER (Continued)

Enforcement Action Type: 13267 Letter
Effective Date: 03/14/2002
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: 03/28/2002
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: Enforcement - 1B85026NHUM DG Fairhaven Power
Description: SHORT-TERM PLAN FOR STORING AND DISPOSING OF THE FLY ASH AND BOTTOM ASH GENERATED AT THIS FACILITY, INCLUDING STEPS THAT WILL BE TAKEN TO BRING FACILITY INTO AND KEEP IT IN COMPLIANCE.
Program: NPDINDSML
Latest Milestone Completion Date: Not reported
# Of Programs1: 1
Total Assessment Amount: $0.00
Initial Assessed Amount: $0.00
Liability $ Amount: $0.00
Project $ Amount: $0.00
Liability $ Paid: $0.00
Project $ Completed: $0.00
Total $ Paid/Completed Amount: $0.00
Region: 1
Facility Id: 613197
Agency Name: DG Fairhaven Power LLC
Place Type: Utility
Place Subtype: Power Plant
Facility Type: Industrial
Agency Type: Other
# Of Agencies: 1
Place Latitude: 40.79905
Place Longitude: -124.20286
SIC Code 1: 4911
SIC Desc 1: Electric Services
SIC Code 2: Not reported
SIC Code 2: Not reported
SIC Code 3: Not reported
SIC Code 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: 0.5
Threat To Water Quality: 2
Complexity: C
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Cooling water: Noncontact
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
DG FAIRHAVEN POWER (Continued)  

**Program:** NPDES WW  
**Program Category1:** NPDES WW  
**Program Category2:** NPDES WW  
**# Of Programs:** 1  
**WDID:** 1B85026NHUM  
**Reg Measure Id:** 138766  
**Reg Measure Type:** NPDES Permits  
**Region:** 1  
**Order #:** 96-092  
**Npdes# CA#:** CA0024571  
**Major-Minor:** Minor  
**Npdes Type:** OTH  
**Reclamation:** N - No  
**Dredge Fill Fee:** Not reported  
**301H:** N  
**Application Fee Amt Received:** Not reported  
**Status:** Historical  
**Status Date:** 02/18/2010  
**Effective Date:** 12/05/1996  
**Expiration/Review Date:** 12/04/2001  
**Termination Date:** 08/21/2002  
**WDR Review - Amend:** Not reported  
**WDR Review - Revise/Renew:** Not reported  
**WDR Review - Rescind:** Not reported  
**WDR Review - No Action Required:** Not reported  
**WDR Review - Pending:** Not reported  
**WDR Review - Planned:** Not reported  
**Status Enrollee:** N  
**Region:** 241986  
**Order / Resolution Number:** R1-2002-0054  
**Enforcement Action Type:** Admin Civil Liability  
**Effective Date:** 05/02/2002  
**Adoption/Issuance Date:** Not reported  
**Achieve Date:** Not reported  
**Termination Date:** 12/19/2003  
**ACL Issuance Date:** Not reported  
**EPL Issuance Date:** Not reported  
**Status:** Historical  
**Title:** Enforcement - 1B85026NHUM DG Fairhaven Power  
**Description:** ACL FOR FLY ASH STORAGE ON-SITE NOT IN A CONTROLLED AREA.  
**Program:** NPDES WW  
**Latest Milestone Completion Date:** Not reported  
**# Of Programs1:** 1  
**Total Assessment Amount:** $0.00  
**Initial Assessed Amount:** $19,000.00  
**Liability $ Amount:** $0.00  
**Project $ Amount:** $0.00  
**Liability $ Paid:** $0.00  
**Project $ Completed:** $0.00  
**Total $ Paid/Completed Amount:** $0.00  
**Region:** 1  
**Facility Id:** 613197
DG FAIRHAVEN POWER (Continued)

Agency Name: DG Fairhaven Power LLC
Place Type: Utility
Place Subtype: Power Plant
Facility Type: Industrial
Agency Type: Other
# Of Agencies: 1
Place Latitude: 40.79905
Place Longitude: -124.20286
SIC Code 1: 4911
SIC Desc 1: Electric Services
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: 0.5
Threat To Water Quality: 2
Complexity: C
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Cooling water: Noncontact
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDESWW
Program Category1: NPDESWW
Program Category2: NPDESWW
# Of Programs: 1
WDID: 1B85026NHUM
Reg Measure Id: 138766
Reg Measure Type: NPDES Permits
Region: 1
Order #: 96-092
Npdes# CA#: CA0024571
Major-Minor: Minor
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 02/18/2010
Effective Date: 12/05/1996
Expiration/Review Date: 12/04/2001
Termination Date: 08/21/2002
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
## DG FAIRHAVEN POWER (Continued)

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### WDS:

- **Facility ID:** 1 121016487
- **Facility Type:** Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
- **Facility Status:** Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
- **NPDES Number:** CAS0000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
- **Subregion:** 1
- **Facility Telephone:** 7074455434
- **Facility Contact:** RON AUZENNE
- **Agency Name:** FAIRHAVEN POWER CO
- **Agency Address:** PO Box 280
- **Agency City,St,Zip:** Eureka 955020280
- **Agency Contact:** Bob Marino
- **Agency Telephone:** 7074455434
- **Agency Type:** Private
- **SIC Code:** 0
- **SIC Code 2:** Not reported
- **Primary Waste Type:** Not reported
- **Primary Waste:** Not reported
- **Waste Type 2:** Not reported
- **Waste 2:** Not reported
DG FAIRHAVEN POWER (Continued) S102823997

Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

A10

FAIRHAVEN POWER PLANT WDS S105774512
97 BAY ST N/A
SAMOA, CA  95564

< 1/8
1 ft.

Site 10 of 14 in cluster A

Relative: Higher
Actual: 38 ft.

WDS:
Facility ID: North Coastal 85026NHUM
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CA0024571 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 1
Facility Telephone: Not reported
Facility Contact: RON AUZENNE
Agency Name: FAIRHAVEN POWER COMPANY
Agency Address: P.O. BOX 280
Agency City,St,Zip: EUREKA 95502
Agency Contact: DENNIS JOHNSON
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 4911
SIC Code 2: Not reported

Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Primary Waste: NONCON
Waste Type2: Not reported
Waste2: Cooling Water: Noncontact
Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD,
FAIRHAVEN POWER PLANT (Continued)

Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 1
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.

Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Aesthetic impairment would include nuisance from a waste treatment facility.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

A11
97 BAY ST
SAMOA, CA 95564
< 1/8
1 ft.

Site 11 of 14 in cluster A

Relative: Higher
Actual: 38 ft.

AST:
Certified Unified Program Agencies: Humboldt
Owner: DG Fairhaven Power Co
Total Gallons: 8,250

A12
DG FAIRHAVEN POWER
97 BAY STREET
SAMOA, CA 95564
< 1/8
1 ft.

Site 12 of 14 in cluster A

Relative: Higher
Actual: 38 ft.

CUPA HUMBOLDT:
Local Site Id: FA0000834
Facility Address 2: Not reported
Program Identifier: CUPA - Response Team Support
Program Element Code Desc: 5056 HazMat Emergency Response Team Support
Permit Status: (none)
Latitude: 40.79899
Longitude: -124.2026
CERS ID: 10020604

Local Site Id: FA0000834
Facility Address 2: Not reported
Program Identifier: CUPA - Hazardous Materials Facility Fee
Program Element Code Desc: 4202 Hazardous Materials Facility Fee
Permit Status: (none)
Latitude: 40.79899
Longitude: -124.2026
CERS ID: 10020604
DG FAIRHAVEN POWER (Continued)

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**NPDES:**

<p>| Npdes Number | Facility Status | Agency Id | Region | Regulatory Measure Id | Order No | Regulatory Measure Type | Place Id | WDID | Program Type | Adoption Date Of Regulatory Measure | Effective Date Of Regulatory Measure | Expiration Date Of Regulatory Measure | Termination Date Of Regulatory Measure | Discharge Name | Discharge Address | Discharge City | Discharge State | Discharge Zip | RECEIVED DATE | PROCESSED DATE | STATUS CODE NAME | STATUS DATE | PLACE SIZE | PLACE SIZE UNIT | FACILITY CONTACT NAME | FACILITY CONTACT TITLE | FACILITY CONTACT PHONE | FACILITY CONTACT PHONE EXT |
|--------------|----------------|-----------|--------|-----------------------|---------|------------------------|---------|-----|--------------|-----------------------------------|-------------------------------------|---------------------------------------|-------------------------------|----------------|----------------|-------------|---------------|---------------|----------------|-----------------|----------------|------------|--------------|------------------|------------------|-------------------|-------------------|</p>
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Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: 3/30/2015
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 5/9/2008
PROCESSED DATE: 9/27/2005
STATUS CODE NAME: Terminated
STATUS DATE: 3/30/2015
PLACE SIZE: 69
PLACE SIZE UNIT: Acres
FACILITY CONTACT NAME: Bob Marino
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: 707-445-5434
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: bmarino@dgfairhaven.com
OPERATOR NAME: DG Fairhaven Power LLC
OPERATOR ADDRESS: 97 Bay St
OPERATOR CITY: Samoa
OPERATOR STATE: California
OPERATOR ZIP: 95584
OPERATOR CONTACT NAME: Bob Marino
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: 707-445-5434
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: bmarino@dgfairhaven.com
OPERATOR TYPE: Other
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: California
DEVELOPER ZIP: Not reported
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DEVELOPER CONTACT TITLE: Not reported
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- **Address**: Not reported

**Facility Contact**
- **Email**: Not reported
- **Phone Ext**: Not reported
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- **Title**: Not reported
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**Terminated**
- **Discharge Zip**: California
- **Discharge State**: Samoa
- **Discharge City**: 97 Bay St
- **Discharge Address**: DG Fairhaven Power LLC

**Wastewater**
- **Termination Date Of Regulatory Measure**: Not reported
- **Expiry Date Of Regulatory Measure**: 09/27/2005
- **Effective Date Of Regulatory Measure**: Not reported
- **Adoption Date Of Regulatory Measure**: Not reported

**Discharge**
- **Program Type**: Industrial
- **Place Id**: Enrollee
- **WDID**: 1 121019801
- **Regulatory Measure Id**: 272501
- **Order No**: 97-03-DWQ
- **Regulatory Measure Type**: Enrollee
- **Detection Id**: DG FAIRHAVEN POWER (Continued) S108204909 TC4483869.2s Page 45
- **Npdes Number**: CAS000001
- **Agency Id**: 0
- **Region**: 1
- **Place Size**: Not reported
- **Facility Contact Email**: Not reported
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- **Primary SIC**: Not reported
- **Secondary SIC**: Not reported
- **Tertiary SIC**: Not reported
- **Address**: 97 Bay St
- **City**: Fairhaven
- **State**: California
- **Zip**: 95564

**Site**
- **Direction**: Not reported
- **Distance**: Not reported
- **Elevation**: Not reported

**WDID**
- **WDID**: 1 121019801

**Certs**
- **General Manager**: Bob Marino
DG FAIRHAVEN POWER (Continued)

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A13
DG FAIRHAVEN POWER CO
97 BAY STREET
SAMOA, CA  95564
< 1/8
1 ft.
Site 13 of 14 in cluster A
Relative: Higher
Actual: 38 ft.
Registry ID: 110001157676

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

COMPLIANCE AND EMISSIONS REPORTING
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain...
limits on what can be discharged, impose monitoring and reporting
requirements, and include other provisions to ensure that the
discharge does not adversely affect water quality.

HAZARDOUS AIR POLLUTANT MAJOR

US Emissions & Generation Resource Database (EGRID) contains data on
emissions and resource mix for virtually every power plant and company
that generates electricity in the United States.

ELECTRIC GENERATOR

STATE MASTER

US EPA RACT/BACT/LAER Clearinghouse (RBLC) database contains
case-specific information on the "Best Available" air pollution
technologies that have been required to reduce the emission of air
pollutants from stationary sources (e.g., power plants, steel mills,
chemical plants, etc.). RACT, or Reasonably Available Control
Technology, is required on existing sources in areas that are not
meeting national ambient air quality standards. BACT, or Best
Available Control Technology, is required on major new or modified
sources in clean areas. LAER, or Lowest Achievable Emission Rate, is
required on major new or modified sources in non-attainment areas.

DG FAIRHAVEN POWER CO (Continued)

1016058377

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DG FAIRHAVEN POWER CO (Continued)

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TC4483869.2s Page 51
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DG FAIRHAVEN POWER CO (Continued)  

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Default Air Classification Code: MAJ
Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1994-06-23 00:00:00
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Activity Date: 1995-08-29 00:00:00
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Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1996-02-06 00:00:00
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DG FAIRHAVEN POWER CO (Continued)

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DG FAIRHAVEN POWER CO (Continued) 1006506980

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Default Air Classification Code: MAJ
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Activity Date: Not reported
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DG FAIRHAVEN POWER CO (Continued) 1006506980

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Activity Date: 1997-06-11 00:00:00
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DG FAIRHAVEN POWER CO (Continued) 1006506980

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Programmatic ID: AIR CANCU0000602300012
Facility Registry ID: 110001157676
DG FAIRHAVEN POWER CO (Continued) 1006506980

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DG FAIRHAVEN POWER CO (Continued)

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Activity Type: Administrative - Informal
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DG FAIRHAVEN POWER CO (Continued)  1006506980

Activity Type: Case File
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Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-07-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU000006023000012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU000006023000012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU000006023000012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU000006023000012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU000006023000012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-05-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU000006023000012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-05-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU000006023000012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-05-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported
| Region Code: | 09 |
| Programmatic ID: | AIR CANCU00000602300012 |
| Facility Registry ID: | 110001157676 |
| Air Operating Status Code: | OPR |
| Default Air Classification Code: | MAJ |
| Air Program: | Title V Permits |
| Activity Date: | 2003-02-28 00:00:00 |
| Activity Status Date: | Not reported |
| Activity Group: | Compliance Monitoring |
| Activity Type: | Inspection/Evaluation |
| Activity Status: | Not reported |

| Region Code: | 09 |
| Programmatic ID: | AIR CANCU00000602300012 |
| Facility Registry ID: | 110001157676 |
| Air Operating Status Code: | OPR |
| Default Air Classification Code: | MAJ |
| Air Program: | Title V Permits |
| Activity Date: | 2003-04-14 00:00:00 |
| Activity Status Date: | Not reported |
| Activity Group: | Compliance Monitoring |
| Activity Type: | Inspection/Evaluation |
| Activity Status: | Not reported |

| Region Code: | 09 |
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| Facility Registry ID: | 110001157676 |
| Air Operating Status Code: | OPR |
| Default Air Classification Code: | MAJ |
| Air Program: | Title V Permits |
| Activity Date: | 2003-09-26 00:00:00 |
| Activity Status Date: | Not reported |
| Activity Group: | Compliance Monitoring |
| Activity Type: | Inspection/Evaluation |
| Activity Status: | Not reported |

<p>| Region Code: | 09 |
| Programmatic ID: | AIR CANCU00000602300012 |
| Facility Registry ID: | 110001157676 |
| Air Operating Status Code: | OPR |
| Default Air Classification Code: | MAJ |
| Air Program: | Title V Permits |
| Activity Date: | 2004-02-28 00:00:00 |
| Activity Status Date: | Not reported |
| Activity Group: | Compliance Monitoring |</p>
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DG FAIRHAVEN POWER CO (Continued)  

Activity Date: 2005-02-22 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 09  
Programmatic ID: AIR CANCU00000602300012  
Facility Registry ID: 110001157676  
Air Operating Status Code: OPR  
Default Air Classification Code: MAJ  
Air Program: Title V Permits  
Activity Date: 2005-02-23 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 09  
Programmatic ID: AIR CANCU00000602300012  
Facility Registry ID: 110001157676  
Air Operating Status Code: OPR  
Default Air Classification Code: MAJ  
Air Program: Title V Permits  
Activity Date: 2005-02-28 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 09  
Programmatic ID: AIR CANCU00000602300012  
Facility Registry ID: 110001157676  
Air Operating Status Code: OPR  
Default Air Classification Code: MAJ  
Air Program: Title V Permits  
Activity Date: 2005-08-26 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 09  
Programmatic ID: AIR CANCU00000602300012  
Facility Registry ID: 110001157676  
Air Operating Status Code: OPR  
Default Air Classification Code: MAJ  
Air Program: Title V Permits  
Activity Date: 2005-09-06 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 09  
Programmatic ID: AIR CANCU00000602300012  
Facility Registry ID: 110001157676
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| Default Air Classification Code: | MAJ                        |
| Air Program: | Title V Permits |
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| Activity Group: | Compliance Monitoring |
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| Facility Registry ID: | 110001157676 |
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| Default Air Classification Code: | MAJ                      |
| Air Program: | Title V Permits |
| Activity Date: | 2006-02-03 00:00:00 |
| Activity Status Date: | Not reported |
| Activity Group: | Compliance Monitoring |
| Activity Type: | Inspection/Evaluation |
| Activity Status: | Not reported |
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| Programmatic ID: | AIR CANCU0000602300012 |
| Facility Registry ID: | 110001157676 |
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| Default Air Classification Code: | MAJ                        |
| Air Program: | Title V Permits |
| Activity Date: | 2006-02-23 00:00:00 |
| Activity Status Date: | Not reported |
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| Air Program: | Title V Permits |
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| Activity Group: | Compliance Monitoring |
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DG FAIRHAVEN POWER CO (Continued)

Activity Type: Inspection/Evaluation
Activity Status: Not reported
Region Code: 09
Programmatic ID: AIR CANCU0000602300012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU0000602300012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU0000602300012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-12-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CANCU0000602300012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-01-20 00:00:00
Activity Status Date: 2006-01-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued
Region Code: 09
Programmatic ID: AIR CANCU0000602300012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
DG FAIRHAVEN POWER CO (Continued)

Activity Date: 2005-12-02 00:00:00
Activity Status Date: 2005-12-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CANCU0000602300012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-12-19 00:00:00
Activity Status Date: 2011-12-19 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CANCU0000602300012
Facility Registry ID: 110001157676
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-06-13 00:00:00
Activity Status Date: 2012-06-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Judicial
Activity Status: Closed

EMI:
Year: 1987
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 148
Reactive Organic Gases Tons/Yr: 65
Carbon Monoxide Emissions Tons/Yr: 738
NOX - Oxides of Nitrogen Tons/Yr: 148
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 28
Part. Matter 10 Micrometers & Smllr Tons/Yr: 28

Year: 1990
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Not reported
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<td>Total Organic Hydrocarbon Gases Tons/Yr</td>
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DG FAIRHAVEN POWER CO (Continued)  1006506980

Particulate Matter Tons/Yr: 42
Part. Matter 10 Micrometers & Smllr Tons/Yr: 42

Year: 1997
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 121
Reactive Organic Gases Tons/Yr: 53
Carbon Monoxide Emissions Tons/Yr: 676
NOX - Oxides of Nitrogen Tons/Yr: 193
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 42
Part. Matter 10 Micrometers & Smllr Tons/Yr: 42

Year: 1998
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 111
Reactive Organic Gases Tons/Yr: 49
Carbon Monoxide Emissions Tons/Yr: 1886
NOX - Oxides of Nitrogen Tons/Yr: 137
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 52
Part. Matter 10 Micrometers & Smllr Tons/Yr: 52

Year: 1999
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 111
Reactive Organic Gases Tons/Yr: 49
Carbon Monoxide Emissions Tons/Yr: 1886
NOX - Oxides of Nitrogen Tons/Yr: 137
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 52
Part. Matter 10 Micrometers & Smllr Tons/Yr: 52

Year: 2000
County Code: 12
Air Basin: NC
DG FAIRHAVEN POWER CO (Continued)

Facility ID: 1006506980
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Year: 114
Reactive Organic Gases Tons/Year: 50
Carbon Monoxide Emissions Tons/Year: 1244
NOX - Oxides of Nitrogen Tons/Year: 144
SOX - Oxides of Sulphur Tons/Year: 0
Particulate Matter Tons/Year: 56
Part. Matter 10 Micrometers & Smaller Tons/Year: 56

Year: 2001
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: B
Total Organic Hydrocarbon Gases Tons/Year: 114
Reactive Organic Gases Tons/Year: 50
Carbon Monoxide Emissions Tons/Year: 1244
NOX - Oxides of Nitrogen Tons/Year: 144
SOX - Oxides of Sulphur Tons/Year: 0
Particulate Matter Tons/Year: 56
Part. Matter 10 Micrometers & Smaller Tons/Year: 56

Year: 2002
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: A
Total Organic Hydrocarbon Gases Tons/Year: 248
Reactive Organic Gases Tons/Year: 109
Carbon Monoxide Emissions Tons/Year: 2721
NOX - Oxides of Nitrogen Tons/Year: 301
SOX - Oxides of Sulphur Tons/Year: 0
Particulate Matter Tons/Year: 123
Part. Matter 10 Micrometers & Smaller Tons/Year: 123

Year: 2003
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
DG FAIRHAVEN POWER CO (Continued)

1006506980

Total Organic Hydrocarbon Gases Tons/Yr: 221
Reactive Organic Gases Tons/Yr: 97
Carbon Monoxide Emissions Tons/Yr: 2425
NOX - Oxides of Nitrogen Tons/Yr: 280
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 110
Part. Matter 10 Micrometers & Smllr Tons/Yr: 109

Year: 2004
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: A
Total Organic Hydrocarbon Gases Tons/Yr: 221.398214
Reactive Organic Gases Tons/Yr: 97.07
Carbon Monoxide Emissions Tons/Yr: 2424.946275
NOX - Oxides of Nitrogen Tons/Yr: 280.1716
SOX - Oxides of Sulphur Tons/Yr: 0.087903
Particulate Matter Tons/Yr: 109.72054
Part. Matter 10 Micrometers & Smllr Tons/Yr: 109.99

Year: 2005
County Code: 12
Air Basin: NC
Facility ID: 96
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: A
Total Organic Hydrocarbon Gases Tons/Yr: 221.398214
Reactive Organic Gases Tons/Yr: 97.07
Carbon Monoxide Emissions Tons/Yr: 2424.946275
NOX - Oxides of Nitrogen Tons/Yr: 280.1716
SOX - Oxides of Sulphur Tons/Yr: 0.087903
Particulate Matter Tons/Yr: 109.72054
Part. Matter 10 Micrometers & Smllr Tons/Yr: 109.99

15
RESIDENCE FURNACE
NNE
< 1/8
0.032 mi.
168 ft.
TRINIDAD, CA  95570

Relative: Higher
Actual: 84 ft.

SWEEPS UST:
Status: Active
Comp Number: 14730
Number: 2
Board Of Equalization: 44-004941
Referral Date: 09-29-93
Action Date: 09-29-93
Created Date: 07-31-88
Owner Tank Id: NO. 888
SWRCB Tank Id: 12-000-014730-000001

SWEEPS UST:  U001612131
HIST UST:    N/A
RESIDENCE FURNACE (Continued)

Tank Status: A
Capacity: 500
Active Date: 09-29-93
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 1

HIST UST:
Region: STATE
Facility ID: 00000014730
Facility Type: Other
Other Type: HOME
Contact Name: Not reported
Telephone: 7076773789
Owner Name: ROBISON, HOUSTON OR ELEANORE
Owner Address: 888 GALINDO
Owner City,St,Zip: TRINIDAD, CA 95570
Total Tanks: 0001

Tank Num: 001
Container Num: NO. 888
Year Installed: 1970
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

B16 PRIVATE RESIDENCE  LUST  S110654187
NE PRIVATE RESIDENCE  N/A
< 1/8  TRINIDAD, CA 95570
0.052 mi.  HUMBOLDT COUNTY LOP
277 ft.  07/27/2004  MAV
Site 1 of 4 in cluster B  Completed - Case Closed

Relative:  Higher
Actual:  125 ft.

LUST:
Region: STATE
Global Id: T0602331889
Latitude: 41.058216
Longitude: -124.145832
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/27/2004
Lead Agency: HUMBOLDT COUNTY LOP
Case Worker: MAV
Local Agency: HUMBOLDT COUNTY LOP
RB Case Number: 1THU900
LOC Case Number: 12900
File Location: Local Agency
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0602331889
Contact Type: Local Agency Caseworker
PRIVATE RESIDENCE (Continued)

Contact Name: Mark Verhey
Organization Name: HUMBOLDT COUNTY LOP
Address: 100 H Street, Suite 100
City: Eureka
Email: mark.verhey@co.humboldt.ca.us
Phone Number: Not reported

Global Id: T0602331889
Contact Type: Regional Board Caseworker
Contact Name: HUMBOLDT COUNTY LOP CLOSED SITE
Organization Name: NORTH COAST RWQCB (REGION 1)
Address: 5550 SKYLANE BOULEVARD, SUITE A
City: SANTA ROSA
Email: Not reported
Phone Number: Not reported

Status History:
- Global Id: T0602331889
  Status: Completed - Case Closed
  Status Date: 07/27/2004
- Global Id: T0602331889
  Status: Open - Case Begin Date
  Status Date: 11/25/2003
- Global Id: T0602331889
  Status: Open - Site Assessment
  Status Date: 01/09/2004

Regulatory Activities:
- Global Id: T0602331889
  Action Type: Other
  Date: 11/25/2003
  Action: Leak Stopped
- Global Id: T0602331889
  Action Type: Other
  Date: 01/05/2004
  Action: Leak Discovery
- Global Id: T0602331889
  Action Type: Other
  Date: 01/05/2004
  Action: Leak Reported
- Global Id: T0602331889
  Action Type: ENFORCEMENT
  Date: 07/27/2004
  Action: Closure/No Further Action Letter
B17
PARTEE, ROY R.
807 EDWARDS
TRINIDAD, CA 95570
< 1/8
0.062 mi.
330 ft. Site 2 of 4 in cluster B

<table>
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<tr>
<td>Actual:</td>
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<tr>
<td>Created Date:</td>
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<tr>
<td>Capacity:</td>
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<td>Active Date:</td>
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<td>Tank Use:</td>
<td>UNKNOWN</td>
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<tr>
<td>STG:</td>
<td>P</td>
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<tr>
<td>Content:</td>
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</table>

HIST UST:
Region: STATE
Facility ID: 000000018486
Facility Type: Other
Other Type: Not reported
Contact Name: Not reported
Telephone: 7076773374
Owner Name: ROY R. PARTEE
Owner Address: 807 EDWARDS
Owner City, St, Zip: TRINIDAD, CA 95570
Total Tanks: 0001

| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | 1970 |
| Tank Capacity: | 0000500 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | 12 |
| Leak Detection: | Visual |

B18
TRINIDAD HOUSE
806 EDWARDS STREET
TRINIDAD, CA 95570
< 1/8
0.064 mi.
339 ft. Site 3 of 4 in cluster B

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<td>STG:</td>
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<tr>
<td>Content:</td>
<td></td>
</tr>
<tr>
<td>Number Of Tanks:</td>
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HIST UST:
Region: STATE
Facility ID: 000000009992
Facility Type: Other
Other Type: Not reported
Contact Name: Not reported
Telephone: 7074255779
Owner Name: ARTHUR H. TOOBY

EDR ID Number: U001612132
EPA ID Number: N/A
TRINIDAD HOUSE (Continued)  

Owner Address: P.O. BOX -5  
Owner City,St,Zip: FAIRFIELD, CA 94533  
Total Tanks: 0001  

Tank Num: 001  
Container Num: 3  
Year Installed: 1974  
Tank Capacity: 00000500  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

TOBY RESIDENCE  

Relative: Higher  
Actual: 136 ft.  

Relative: Site 4 of 4 in cluster B  

LUST:  
Region: STATE  
Global Id: T0602300406  
Latitude: 41.058669  
Longitude: -124.14584  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 06/25/1998  
Lead Agency: HUMBOLDT COUNTY LOP  
Case Worker: MAV  
Local Agency: HUMBOLDT COUNTY LOP  
RB Case Number: 1THU542  
LOC Case Number: 12542  
File Location: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Diesel  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0602300406  
Contact Type: Regional Board Caseworker  
Contact Name: HUMBOLDT COUNTY LOP CLOSED SITE  
Organization Name: NORTH COAST RWQCB (REGION 1)  
Address: 5550 SKYLANE BOULEVARD, SUITE A  
City: SANTA ROSA  
Email: Not reported  
Phone Number: Not reported

Global Id: T0602300406  
Contact Type: Local Agency Caseworker  
Contact Name: Mark Verhey  
Organization Name: HUMBOLDT COUNTY LOP  
Address: 100 H Street, Suite 100  
City: Eureka  
Email: mark.verhey@co.humboldt.ca.us  
Phone Number: Not reported
TOOBY RESIDENCE (Continued)

Status History:
- Global Id: T0602300406
  - Status: Completed - Case Closed
  - Status Date: 06/25/1998

- Global Id: T0602300406
  - Status: Open - Case Begin Date
  - Status Date: 08/10/1995

- Global Id: T0602300406
  - Status: Open - Remediation
  - Status Date: 06/01/1998

- Global Id: T0602300406
  - Status: Open - Site Assessment
  - Status Date: 09/06/1995

- Global Id: T0602300406
  - Status: Open - Site Assessment
  - Status Date: 06/01/1998

- Global Id: T0602300406
  - Status: Open - Verification Monitoring
  - Status Date: 06/01/1998

Regulatory Activities:
- Global Id: T0602300406
  - Action Type: Other
  - Date: 08/10/1995
  - Action: Leak Stopped

- Global Id: T0602300406
  - Action Type: Other
  - Date: 08/10/1995
  - Action: Leak Discovery

- Global Id: T0602300406
  - Action Type: Other
  - Date: 08/10/1995
  - Action: Leak Reported

LUST REG 1:
- Region: 1
- Facility ID: 1THU542
- Staff Initials: HUM

SWEEPS UST:
- Status: Active
- Comp Number: 9992
- Number: 9
- Board Of Equalization: 44-004854
- Referral Date: 09-29-93
- Action Date: 09-29-93
- Created Date: 07-31-88
### TOBY RESIDENCE (Continued)

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<td>Tank Use:</td>
<td>M.V. FUEL</td>
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<td>DIESEL</td>
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**HIST CORTESE:**
- Region: CORTESE
- Facility County Code: 12
- Reg By: LTNKA
- Reg Id: 1THU542

### HSU TELONICHER MARINE LABORATORY

<table>
<thead>
<tr>
<th>CUPA Listings</th>
<th>S100875642</th>
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<tbody>
<tr>
<td>NPDES</td>
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#### 20 North
- 18-1/4
- 0.169 mi.
- 891 ft.

#### Relative: Higher
#### Actual: 136 ft.

**CUPA HUMBOLDT:**
- Local Site Id: FA0001523
- Facility Address 2: Not reported
- Program Identifier: CUPA - Hazardous Materials Facility Fee
- Program Element Code Desc: 4202 Hazardous Materials Facility Fee
- Permit Status: (none)
- Latitude: 41.05891
- Longitude: -124.1475
- CERS ID: 10020334

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<td>CUPA - SQG</td>
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<td>Program Identifier:</td>
<td>CUPA - HMBP</td>
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<td>Program Element Code Desc:</td>
<td>4201 HMBP and/or Inventory</td>
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<td>Program Identifier:</td>
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HSU TELONICHER MARINE LABORATORY (Continued)  S100875642

CERS ID: 10020334

NPDES:

NPDES Number: CA0025151
Facility Status: Active
Agency Id: 203966
Region: 1
Regulatory Measure Id: 387930
Order No: R1-2013-0006
Regulatory Measure Type: NPDES Permits
Place Id: 787778
WDID: 1B12187NHUM
Program Type: NPDINDSML
Adoption Date Of Regulatory Measure: 05/02/2013
Effective Date Of Regulatory Measure: 07/01/2013
Expiration Date Of Regulatory Measure: 07/01/2018
Termination Date Of Regulatory Measure: Not reported
Discharge Name: CSU Humboldt State University (HSU)
Discharge Address: 1 Harpst Street
Discharge City: Arcata
Discharge State: CA
Discharge Zip: 95521-8299
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Not reported
OPERATOR ADDRESS: Not reported
OPERATOR CITY: Not reported
OPERATOR STATE: Not reported
OPERATOR ZIP: Not reported
OPERATOR CONTACT NAME: Not reported
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: Not reported
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: Not reported
OPERATOR TYPE: Not reported
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
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DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: Not reported
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported
CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
### HSU TELONICHER MARINE LABORATORY (Continued)

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#### CITIZEN'S MORTUARY

**Location:** OCEAN AVENUE 470, FERNDALE, CA

**Site:** 1 of 2 in cluster C

**Relative:** Higher

**Actual:** 174 ft.

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#### CITY OF TRINIDAD

**Location:** 409 TRINITY STREET, TRINIDAD, CA 95570

**Relative:** Higher

**Actual:** 176 ft.

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<tr>
<td>Contact Name</td>
<td>TOM NELSON - SUPERVISOR</td>
</tr>
<tr>
<td>Telephone</td>
<td>7076770223</td>
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<tr>
<td>Owner Name</td>
<td>CITY OF TRINIDAD</td>
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<tr>
<td>Owner Address</td>
<td>409 TRINITY STREET</td>
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<tr>
<td>Owner City,St,Zip</td>
<td>TRINIDAD, CA 95570</td>
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<tr>
<td>Total Tanks</td>
<td>0001</td>
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<tr>
<td>Tank Num</td>
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CITY OF TRINIDAD  (Continued)  U001612118

Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

NPDES:
Npdes Number: Not reported
Facility Status: Active
Agency Id: 0
Region: 1
Regulatory Measure Id: 439071
Order No: Not reported
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 1 12M2000163
Program Type: Phase II Small MS4
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 08/20/2013
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: City of Trinidad
Discharge Address: 409 Trinity Street
Discharge City: Trinidad
Discharge State: California
Discharge Zip: 95570
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Not reported
OPERATOR ADDRESS: Not reported
OPERATOR CITY: Not reported
OPERATOR STATE: Not reported
OPERATOR ZIP: Not reported
OPERATOR CONTACT NAME: Not reported
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: Not reported
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: Not reported
OPERATOR TYPE: Not reported
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
CITY OF TRINIDAD  (Continued)

DEVELOPER CITY: Not reported
DEVELOPER STATE: Not reported
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: Not reported
EMERGENCY PHONE EXT: Not reported
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CONSTYPE COMMERTIAL IND: Not reported
CONSTYPE ELECTRICAL LINE IND: Not reported
CONSTYPE GAS LINE IND: Not reported
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Regulatory Measure Id: 439071
Order No: Not reported
Regulatory Measure Type: Phase II Small MS4
Place Id: Not reported
WDID: 1 123M2000163
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
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PROCESSED DATE: 8/20/2013
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| Number | 1016 |
| Number | Not reported |
| Board Of Equalization | 44-004794 |
| Referral Date | Not reported |
| Action Date | Not reported |
| Created Date | Not reported |
| Owner Tank Id | Not reported |
| SWRCB Tank Id | 12-000-001016-000001 |
| Tank Status | Not reported |
| Capacity | 500 |
| Active Date | Not reported |
| Tank Use | M.V. FUEL |
| STG | PRODUCT |
| Content | LEADED |
| Number Of Tanks | 1 |

#### HIST UST

| Region | STATE |
| Facility ID | 00000001016 |
| Facility Type | Other |
| Other Type | FISHING |
| Contact Name | Not reported |
| Telephone | 7076773807 |
| Owner Name | DUANE R. COX |
| Owner Address | 408 WAGNER ST. |
| Owner City,St,Zip | TRINIDAD, CA 95570 |
| Total Tanks | 0001 |

| Tank Num | 001 |
| Container Num | 1 |
| Year Installed | 1979 |
| Tank Capacity | 00000500 |
| Tank Used for | PRODUCT |
| Type of Fuel | REGULAR |
| Container Construction Thickness | Not reported |
| Leak Detection | Visual |

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| Container Num | 1 |
| Year Installed | Not reported |
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| Type of Fuel | REGULAR |
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| SIC Code: | 4813 |
| Air District Name: | NORTH COAST UNIFIED AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
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| Reactive Organic Gases Tons/Yr: | 0.0088203 |
| Carbon Monoxide Emissions Tons/Yr: | 0.023853 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0.1106912 |
| SOX - Oxides of Sulphur Tons/Yr: | 1.903e-005 |
| Particulate Matter Tons/Yr: | 0.0032267418033 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr: | 0.0031493 |

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| 1/8-1/4 | TRINIDAD, CA  95570 |
| 0.250 mi. | 1318 ft. |
| SWEEPS UST: | S106933230 |
| Status: | Not reported |
| Comp Number: | 59955 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
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| SWRCB Tank Id: | 12-000-059955-000001 |
| Tank Status: | Not reported |
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| STG: | PRODUCT |
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| Action Date:     | Not reported |
| Created Date:    | Not reported |
| Owner Tank Id:   | Not reported |
| SWRCB Tank Id:   | 12-000-059955-000003 |
| Tank Status:     | Not reported |
| Capacity:        | 500 |
| Active Date:     | Not reported |
| Tank Use:        | M.V. FUEL |
| STG:             | PRODUCT |
| Content:         | DIESEL |
| Number Of Tanks: | Not reported |</p>
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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.

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**NPL Site Boundaries**

**Sources:**

- EPA's Environmental Photographic Interpretation Center (EPIC)
  - Telephone: 202-564-7333
- EPA Region 1
  - Telephone 617-918-1143
- EPA Region 3
  - Telephone 215-814-5418
- EPA Region 4
  - Telephone 404-562-8033
- EPA Region 5
  - Telephone 312-886-6686
- EPA Region 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.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: EPA</th>
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<td>Date Made Active in Reports</td>
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</tr>
<tr>
<td>Number of Days to Update</td>
<td>Next Scheduled EDR Contact: 01/18/2016</td>
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**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.

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<tr>
<th>Date of Government Version</th>
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<td>Date Data Arrived at EDR</td>
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Data Release Frequency: Quarterly

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: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 75

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: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 64

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.
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.

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.

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.

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.
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: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13
Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
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: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53
Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/14/2016
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: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53
Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/14/2016
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: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82
Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/29/2015
Next Scheduled EDR Contact: 01/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites
Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/03/2015
Date Data Arrived at EDR: 08/04/2015
Date Made Active in Reports: 09/03/2015
Number of Days to Update: 30
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
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 identifies 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: 08/03/2015  Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/04/2015  Telephone: 916-323-3400
Date Made Active in Reports: 09/03/2015  Last EDR Contact: 11/07/2015
Number of Days to Update: 30  Next Scheduled EDR Contact: 02/15/2016
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 inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/17/2015  Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 08/18/2015  Telephone: 916-341-6320
Date Made Active in Reports: 09/03/2015  Last EDR Contact: 11/18/2015
Number of Days to Update: 16  Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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  Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001  Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001  Last EDR Contact: 08/01/2011
Number of Days to Update: 29  Next Scheduled EDR Contact: 11/14/2011
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  Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001  Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001  Last EDR Contact: 09/26/2011
Number of Days to Update: 28  Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Geotracker’s Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 10/21/2015  Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/22/2015  Telephone: see region list
Date Made Active in Reports: 11/05/2015  Last EDR Contact: 10/22/2015
Number of Days to Update: 14  Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Quarterly
LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.
Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board’s LUST database.
Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.
Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 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 2: Fuel Leak List
### 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 | Source: California Regional Water Quality Control Board Santa Ana Region (8) |
| Date Data Arrived at EDR | Telephone: 909-782-4496 |
| Date Made Active in Reports | Last EDR Contact: 08/15/2011 |
| Number of Days to Update | Next Scheduled EDR Contact: 11/28/2011 |
| 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 | Source: EPA Region 7 |
| Date Data Arrived at EDR | Telephone: 913-551-7003 |
| Date Made Active in Reports | Last EDR Contact: 10/08/2015 |
| Number of Days to Update | Next Scheduled EDR Contact: 02/08/2016 |
| Data Release Frequency | Varies |

### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

| Date of Government Version | Source: EPA Region 10 |
| Date Data Arrived at EDR | Telephone: 206-553-2857 |
| Date Made Active in Reports | Last EDR Contact: 10/26/2015 |
| Number of Days to Update | Next Scheduled EDR Contact: 02/08/2016 |
| Data Release Frequency | Quarterly |

### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

| Date of Government Version | Source: EPA Region 6 |
| Date Data Arrived at EDR | Telephone: 214-665-6597 |
| Date Made Active in Reports | Last EDR Contact: 10/26/2015 |
| Number of Days to Update | Next Scheduled EDR Contact: 02/08/2016 |
| Data Release Frequency | Quarterly |

### INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

| Date of Government Version | Source: EPA, Region 5 |
| Date Data Arrived at EDR | Telephone: 312-886-7439 |
| Date Made Active in Reports | Last EDR Contact: 10/26/2015 |
| Number of Days to Update | Next Scheduled EDR Contact: 02/08/2016 |
| 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 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR | Telephone: 415-972-3372 |
| Date Made Active in Reports | Last EDR Contact: 10/30/2015 |
| Number of Days to Update | Next Scheduled EDR Contact: 02/08/2016 |
| Data Release Frequency | Quarterly |
INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015  Source: EPA Region 8
Date Data Arrived at EDR: 05/05/2015  Telephone: 303-312-6271
Date Made Active in Reports: 06/22/2015  Last EDR Contact: 10/08/2015
Number of Days to Update: 48  Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2015  Source: EPA Region 4
Date Data Arrived at EDR: 08/07/2015  Telephone: 404-562-8677
Date Made Active in Reports: 10/13/2015  Last EDR Contact: 10/26/2015
Number of Days to Update: 67  Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Semi-Annually

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: 02/03/2015  Source: EPA Region 1
Date Data Arrived at EDR: 04/30/2015  Telephone: 617-918-1313
Date Made Active in Reports: 06/22/2015  Last EDR Contact: 10/27/2015
Number of Days to Update: 53  Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases
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: 10/21/2015  Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/22/2015  Telephone: 866-480-1028
Date Made Active in Reports: 11/06/2015  Last EDR Contact: 10/22/2015
Number of Days to Update: 15  Next Scheduled EDR Contact: 12/28/2015
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  Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003  Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003  Last EDR Contact: 08/01/2011
Number of Days to Update: 18  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  Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004  Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004  Last EDR Contact: 09/19/2011
Number of Days to Update: 30  Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.
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
Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47
Number of Days to Update: 16
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Semi-Annually

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
Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 47
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Source: California Regional Water Quality Control Board, Lahontan Region
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
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
Source: California Regional Quality Control Board, Colorado River Basin Region
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
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.
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.

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

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).

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).
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).

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).

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).

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).

INDIAN UST R10: Underground Storage Tanks on Indian Land

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).
**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:** 08/03/2015
- **Date Data Arrived at EDR:** 08/04/2015
- **Date Made Active in Reports:** 09/03/2015
- **Number of Days to Update:** 30
- **Next Scheduled EDR Contact:** 02/15/2016
- **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:** 09/29/2014
- **Date Data Arrived at EDR:** 10/01/2014
- **Date Made Active in Reports:** 11/06/2014
- **Number of Days to Update:** 36
- **Next Scheduled EDR Contact:** 01/11/2016
- **Data Release Frequency:** Varies

**INDIAN VCP R7: Voluntary Cleanup Priority Listing**

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
- **Next Scheduled EDR Contact:** 07/20/2009
- **Data Release Frequency:** Varies

**State and tribal Brownfields sites**

**BROWNFIELDS: Considered Brownfields 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:** 06/25/2015
- **Date Data Arrived at EDR:** 09/08/2015
- **Date Made Active in Reports:** 10/12/2015
- **Number of Days to Update:** 34
- **Next Scheduled EDR Contact:** 12/21/2015
- **Data Release Frequency:** Varies

**ADDITIONAL ENVIRONMENTAL RECORDS**

**Local Brownfield lists**

**US BROWNFIELDS: A Listing of Brownfields Sites**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.
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.

SWRCY: Recycler Database
A listing of recycling facilities in California.

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

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.
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: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
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: 08/12/2015
Date Data Arrived at EDR: 09/04/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 60
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2015
Next Scheduled EDR Contact: 12/14/2015
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: 08/03/2015
Date Data Arrived at EDR: 08/04/2015
Date Made Active in Reports: 09/03/2015
Number of Days to Update: 30
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8
Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Varies
TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic Pits Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995  
Date Data Arrived at EDR: 08/30/1995  
Date Made Active in Reports: 09/26/1995  
Number of Days to Update: 27  
Source: State Water Resources Control Board  
Telephone: 916-227-4364  
Last EDR Contact: 01/26/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/12/2015  
Date Data Arrived at EDR: 09/04/2015  
Date Made Active in Reports: 11/03/2015  
Number of Days to Update: 60  
Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 11/25/2015  
Next Scheduled EDR Contact: 03/14/2016  
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990’s. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994  
Date Data Arrived at EDR: 07/07/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 35  
Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/03/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009  
Date Data Arrived at EDR: 09/23/2009  
Date Made Active in Reports: 10/01/2009  
Number of Days to Update: 8  
Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 11/23/2015  
Next Scheduled EDR Contact: 03/14/2016  
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990  
Date Data Arrived at EDR: 01/25/1991  
Date Made Active in Reports: 02/12/1991  
Number of Days to Update: 18  
Source: State Water Resources Control Board  
Telephone: 916-341-5851  
Last EDR Contact: 07/26/2001  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.
Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

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.

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.

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.

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).
<table>
<thead>
<tr>
<th>Source</th>
<th>Telephone</th>
<th>Last EDR Contact</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
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<td>866-480-1028</td>
<td>10/22/2015</td>
<td>12/28/2015</td>
<td>Quarterly</td>
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<td>866-480-1028</td>
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<td>No Update Planned</td>
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<tr>
<td>Environmental Protection Agency</td>
<td>(415) 495-8895</td>
<td>09/29/2015</td>
<td>01/11/2016</td>
<td>Varies</td>
</tr>
<tr>
<td>U.S. Army Corps of Engineers</td>
<td>202-528-4285</td>
<td>09/11/2015</td>
<td>12/21/2015</td>
<td>Varies</td>
</tr>
</tbody>
</table>

**LDS: Land Disposal Sites Listing**
The Land Disposal program regulates waste discharge to land for treatment, storage and disposal in waste management units.

**MCS: Military Cleanup Sites Listing**
The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

**SPILLS 90: SPILLS90 data from FirstSearch**
Spills 90 includes 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.

**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.

**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.
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: 10/16/2015
Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/16/2015
Next Scheduled EDR Contact: 01/25/2016
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: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 02/29/2016
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: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
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 allegation 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: 08/17/2014
Number of Days to Update: 98

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/10/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly
2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6
Next Scheduled EDR Contact: 02/22/2016

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/13/2015
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14
Next Scheduled EDR Contact: 01/04/2016

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/25/2015
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: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110
Next Scheduled EDR Contact: 03/07/2016

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/24/2015
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Next Scheduled EDR Contact: 02/08/2016

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/26/2015
Data Release Frequency: Annually

ROD: Records Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74
Next Scheduled EDR Contact: 12/21/2015

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/11/2015
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.

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.

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

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.

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.
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
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667

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
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

Source: EPA
Telephone: 202-566-1667

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: 06/26/2015
Date Data Arrived at EDR: 07/10/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 95
Next Scheduled EDR Contact: 12/21/2015
Data Release Frequency: Quarterly

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Varies

Source: Department of Energy
Telephone: 202-586-8719

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Next Scheduled EDR Contact: 12/21/2015
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: N/A

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: 202-566-0517

Last EDR Contact: 10/29/2015

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.
**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

Date of Government Version: 07/07/2015  
Source: Environmental Protection Agency  
Telephone: 202-343-9775

Date Data Arrived at EDR: 07/09/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 69  
Next Scheduled EDR Contact: 01/18/2016  
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  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

**HIST FTTS INSPI: 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  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

**DOT OPS: Incident and Accident Data**

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42  
Last EDR Contact: 11/07/2015  
Next Scheduled EDR Contact: 02/15/2016  
Data Release Frequency: Varies

**CONSENT: Superfund (CERCLA) Consent Decrees**

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 04/17/2015  
Date Made Active in Reports: 06/02/2015  
Number of Days to Update: 46  
Last EDR Contact: 09/28/2015  
Next Scheduled EDR Contact: 01/11/2016  
Data Release Frequency: Varies

**BRS: Biennial Reporting System**

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 218  
Last EDR Contact: 11/24/2015  
Next Scheduled EDR Contact: 03/07/2016  
Data Release Frequency: Biennially

TC4483869.2s  Page GR-22
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: 12/31/2005  Source: USGS
Date Data Arrived at EDR: 12/08/2006  Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007  Last EDR Contact: 10/16/2015
Number of Days to Update: 34  Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Semi-Annually

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills
shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from
the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings
were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010  Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011  Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012  Last EDR Contact: 11/19/2015
Number of Days to Update: 146  Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014  Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/26/2014  Telephone: 703-603-8787
Date Made Active in Reports: 01/29/2015  Last EDR Contact: 10/05/2015
Number of Days to Update: 64  Next Scheduled EDR Contact: 01/18/2016
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 1931 and 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  Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010  Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010  Last EDR Contact: 12/02/2009
Number of Days to Update: 36  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: 07/22/2015  Source: EPA
Date Data Arrived at EDR: 07/24/2015  Telephone: 202-564-2496
Date Made Active in Reports: 09/02/2015  Last EDR Contact: 09/28/2015
Number of Days to Update: 40  Next Scheduled EDR Contact: 01/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 07/22/2015  Source: EPA
Date Data Arrived at EDR: 07/24/2015  Telephone: 202-564-2496
Date Made Active in Reports: 09/02/2015  Last EDR Contact: 09/28/2015
Number of Days to Update: 40  Next Scheduled EDR Contact: 01/11/2016
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: 05/14/2015
Date Data Arrived at EDR: 06/03/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 91

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/03/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/04/2015
Next Scheduled EDR Contact: 12/14/2015
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: 09/04/2015
Next Scheduled EDR Contact: 12/14/2015
Data Release Frequency: Varies

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: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/09/2015
Next Scheduled EDR Contact: 12/21/2015
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

CORTES: "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).
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 upholstery cleaning; industrial launderers; laundry and
garment services.

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

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.

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information

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.

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.
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: 08/24/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 10/01/2015
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
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: 07/27/2015
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/14/2015
Next Scheduled EDR Contact: 01/25/2016
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: 09/14/2015
Date Data Arrived at EDR: 09/15/2015
Date Made Active in Reports: 10/14/2015
Number of Days to Update: 29

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/15/2015
Next Scheduled EDR Contact: 12/28/2015
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: 09/03/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 10/12/2015
Number of Days to Update: 33

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/09/2015
Next Scheduled EDR Contact: 12/21/2015
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.
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.

PROC: Certified Processors Database
A listing of certified processors.

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.

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined
pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality
Control Board revealed the existence of previously unidentified waste sites. The water board’s review found that
more than one-third of the region’s active disposal pits are operating without permission.

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.
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.

EDR Hist Auto: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.
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.

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and groundwater contamination from leaking petroleum USTs).

Underground Tanks
Underground storage tank sites located in Alameda county.

AMADOR COUNTY:
<table>
<thead>
<tr>
<th>County</th>
<th>CUPA Facility List</th>
<th>Source</th>
<th>Telephone</th>
<th>Last EDR Contact</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
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<tr>
<td></td>
<td>CUPA Facility Listing</td>
<td>Source: Public Health Department</td>
<td>Telephone: 530-538-7149</td>
<td>Last EDR Contact: 11/23/2015</td>
<td>Next Scheduled EDR Contact: 01/25/2016</td>
<td>Data Release Frequency: No Update Planned</td>
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<td><strong>CALVERAS COUNTY:</strong></td>
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<td>Source: Calveras County Environmental Health</td>
<td>Telephone: 209-754-6399</td>
<td>Last EDR Contact: 09/28/2015</td>
<td>Next Scheduled EDR Contact: 01/11/2016</td>
<td>Data Release Frequency: Quarterly</td>
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<td><strong>COLUSA COUNTY:</strong></td>
<td></td>
<td>Source: Health &amp; Human Services</td>
<td>Telephone: 530-458-0396</td>
<td>Last EDR Contact: 11/09/2015</td>
<td>Next Scheduled EDR Contact: 02/22/2016</td>
<td>Data Release Frequency: Varies</td>
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<td><strong>CONTRA COSTA COUNTY:</strong></td>
<td>Site List</td>
<td>Source: Contra Costa Health Services Department</td>
<td>Telephone: 925-646-2286</td>
<td>Last EDR Contact: 11/07/2015</td>
<td>Next Scheduled EDR Contact: 02/15/2016</td>
<td>Data Release Frequency: Semi-Annually</td>
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<td>CUPA Facility List</td>
<td>Source</td>
<td>Telephone</td>
<td>Last EDR Contact</td>
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<td>Del Norte County</td>
<td>CUPA Facility list</td>
<td>Del Norte County Environmental Health Division</td>
<td>707-465-0426</td>
<td>11/13/2015</td>
<td>02/15/2016</td>
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<td>El Dorado County</td>
<td>CUPA Facility list</td>
<td>El Dorado County Environmental Management Department</td>
<td>530-621-6623</td>
<td>11/07/2015</td>
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<td>Fresno County</td>
<td>CUPA Resources List</td>
<td>Dept. of Community Health</td>
<td>559-445-3271</td>
<td>10/05/2015</td>
<td>01/18/2016</td>
<td>Semi-Annually</td>
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<td>Humboldt County</td>
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<td>Humboldt County Environmental Health</td>
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<td>Imperial County</td>
<td>CUPA Facility List</td>
<td>San Diego Border Field Office</td>
<td>760-339-2777</td>
<td>10/26/2015</td>
<td>02/08/2016</td>
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<td>Inyo County</td>
<td>CUPA Facility List</td>
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</table>
CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33
Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

KERN COUNTY:
Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/19/2015
Date Data Arrived at EDR: 06/18/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 34
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

KINGS COUNTY:
CUPA Facility List
A listing of sites included in the county’s Certified Unified Program Agency database. California’s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/25/2015
Date Data Arrived at EDR: 08/27/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 34
Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

LAKE COUNTY:
CUPA Facility List

Date of Government Version: 08/11/2015
Date Data Arrived at EDR: 08/14/2015
Date Made Active in Reports: 09/03/2015
Number of Days to Update: 20
Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Varies

LOS ANGELES COUNTY:
San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/21/2015
Next Scheduled EDR Contact: 01/04/2016
Data Release Frequency: No Update Planned

TC4483869.2s  Page GR-32
HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.
Date of Government Version: 11/24/2014  Source: Department of Public Works
Date Data Arrived at EDR: 01/30/2015  Telephone: 626-458-3517
Date Made Active in Reports: 03/04/2015  Last EDR Contact: 10/09/2015
Number of Days to Update: 33  Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.
Date of Government Version: 10/19/2015  Source: La County Department of Public Works
Date Data Arrived at EDR: 10/20/2015  Telephone: 818-458-5185
Date Made Active in Reports: 11/19/2015  Last EDR Contact: 10/20/2015
Number of Days to Update: 30  Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.
Date of Government Version: 01/01/2015  Source: Engineering & Construction Division
Date Data Arrived at EDR: 07/27/2015  Telephone: 213-473-7869
Date Made Active in Reports: 08/10/2015  Last EDR Contact: 10/19/2015
Number of Days to Update: 14  Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.
Date of Government Version: 01/15/2015  Source: Community Health Services
Date Data Arrived at EDR: 01/29/2015  Telephone: 323-890-7806
Date Made Active in Reports: 03/10/2015  Last EDR Contact: 10/19/2015
Number of Days to Update: 40  Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.
Date of Government Version: 03/30/2015  Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/02/2015  Telephone: 310-524-2236
Date Made Active in Reports: 04/13/2015  Last EDR Contact: 10/19/2015
Number of Days to Update: 11  Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.
Date of Government Version: 03/03/2015  Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 05/26/2015  Telephone: 562-570-2563
Date Made Active in Reports: 06/11/2015  Last EDR Contact: 10/26/2015
Number of Days to Update: 16  Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.
Date of Government Version: 10/13/2015  Source: City of Torrance Fire Department
Date Data Arrived at EDR: 10/14/2015  Telephone: 310-618-2973
Date Made Active in Reports: 12/01/2015  Last EDR Contact: 10/09/2015
Number of Days to Update: 48  Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Semi-Annually

MADERA COUNTY:
CUPA Facility List

A listing of sites included in the county’s Certified Unified Program Agency database. California’s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/15/2015</th>
<th>Source: Madera County Environmental Health</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR: 09/17/2015</td>
<td>Telephone: 559-675-7823</td>
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<td>Date Made Active in Reports: 10/14/2015</td>
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<td>Number of Days to Update: 27</td>
<td>Next Scheduled EDR Contact: 03/07/2016</td>
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<td>Data Release Frequency: Varies</td>
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MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

<table>
<thead>
<tr>
<th>Date of Government Version: 10/05/2015</th>
<th>Source: Public Works Department Waste Management</th>
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</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 10/08/2015</td>
<td>Telephone: 415-499-6647</td>
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<tr>
<td>Date Made Active in Reports: 10/15/2015</td>
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<td>Data Release Frequency: Semi-Annually</td>
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MERCEDE COUNTY:

CUPA Facility List
CUPA facility list.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/21/2015</th>
<th>Source: Merced County Environmental Health</th>
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<tbody>
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<td>Date Data Arrived at EDR: 09/22/2015</td>
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MONO COUNTY:

CUPA Facility List
CUPA Facility List

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<thead>
<tr>
<th>Date of Government Version: 09/02/2015</th>
<th>Source: Mono County Health Department</th>
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<tr>
<td>Date Data Arrived at EDR: 09/04/2015</td>
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<td>Date Made Active in Reports: 10/13/2015</td>
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<td>Data Release Frequency: Varies</td>
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MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

<table>
<thead>
<tr>
<th>Date of Government Version: 06/30/2015</th>
<th>Source: Monterey County Health Department</th>
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<tr>
<td>Date Data Arrived at EDR: 07/07/2015</td>
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<td>Number of Days to Update: 9</td>
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<tr>
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<td>Data Release Frequency: Varies</td>
</tr>
</tbody>
</table>

NAPA COUNTY:
Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 06/03/2015
Date Data Arrived at EDR: 06/04/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 48
Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 11/06/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/10/2015
Date Made Active in Reports: 09/03/2015
Number of Days to Update: 24
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/10/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/03/2015
Date Data Arrived at EDR: 08/10/2015
Date Made Active in Reports: 09/11/2015
Number of Days to Update: 32
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/10/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/11/2015
Date Made Active in Reports: 09/03/2015
Number of Days to Update: 23
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/11/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Quarterly

PLACER COUNTY:
Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/08/2015
Date Data Arrived at EDR: 09/08/2015
Date Made Active in Reports: 10/14/2015
Number of Days to Update: 36
Source: Placer County Health and Human Services
Telephone: 530-745-2383
Last EDR Contact: 09/08/2015
Next Scheduled EDR Contact: 12/21/2015
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/26/2015
Date Data Arrived at EDR: 10/28/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 22
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/21/2015
Next Scheduled EDR Contact: 01/04/2016
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/26/2015
Date Data Arrived at EDR: 10/28/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 22
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/21/2015
Next Scheduled EDR Contact: 01/04/2016
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/03/2015
Date Data Arrived at EDR: 10/06/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 41
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/06/2015
Next Scheduled EDR Contact: 01/18/2016
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/03/2015
Date Data Arrived at EDR: 10/06/2015
Date Made Active in Reports: 11/06/2015
Number of Days to Update: 31
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/06/2015
Next Scheduled EDR Contact: 01/18/2016
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.
SAN DIEGO COUNTY:

Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Solid Waste Facilities
San Diego County Solid Waste Facilities.

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.

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

SAN JOAQUIN COUNTY:
San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/23/2015
Date Data Arrived at EDR: 09/25/2015
Date Made Active in Reports: 10/15/2015
Number of Days to Update: 20

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/21/2015
Next Scheduled EDR Contact: 01/04/2016
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/25/2015
Date Data Arrived at EDR: 08/27/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 34

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/14/2015
Date Data Arrived at EDR: 10/15/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 32

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/14/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/16/2015
Date Data Arrived at EDR: 09/17/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 49

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/14/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list
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.

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

SANTA CRUZ COUNTY:
CUPA Facility List
CUPA facility listing.

SHASTA COUNTY:
CUPA Facility List
Cupa Facility List.

SOLANO COUNTY:
Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/02/2015
Date Data Arrived at EDR: 09/17/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 49
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/10/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list
Date of Government Version: 09/28/2015
Date Data Arrived at EDR: 09/30/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 36
Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/28/2015
Next Scheduled EDR Contact: 01/11/2016
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2015
Date Data Arrived at EDR: 10/02/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 34
Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/28/2015
Next Scheduled EDR Contact: 01/11/2016
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/05/2015
Date Data Arrived at EDR: 06/09/2015
Date Made Active in Reports: 07/06/2015
Number of Days to Update: 27
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/08/2015
Next Scheduled EDR Contact: 12/21/2015
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list
Date of Government Version: 07/13/2015
Date Data Arrived at EDR: 07/28/2015
Date Made Active in Reports: 08/03/2015
Number of Days to Update: 6
Source: Division of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

VENTURA COUNTY:
### Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

**Date of Government Version:** 07/27/2015  
**Source:** Ventura County Environmental Health Division  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 08/17/2015  
**Date Made Active in Reports:** 09/03/2015  
**Number of Days to Update:** 17  
**Next Scheduled EDR Contact:** 11/30/2015  
**Data Release Frequency:** Quarterly  

### Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

**Date of Government Version:** 12/01/2011  
**Source:** Environmental Health Division  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 12/01/2011  
**Date Made Active in Reports:** 01/19/2012  
**Number of Days to Update:** 49  
**Next Scheduled EDR Contact:** 01/18/2016  
**Data Release Frequency:** Annually  

### Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

**Date of Government Version:** 05/29/2008  
**Source:** Environmental Health Division  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 06/24/2008  
**Date Made Active in Reports:** 07/31/2008  
**Number of Days to Update:** 37  
**Next Scheduled EDR Contact:** 02/29/2016  
**Data Release Frequency:** Quarterly  

### Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

**Date of Government Version:** 09/28/2015  
**Source:** Ventura County Resource Management Agency  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 10/28/2015  
**Date Made Active in Reports:** 11/19/2015  
**Number of Days to Update:** 22  
**Next Scheduled EDR Contact:** 02/08/2016  
**Data Release Frequency:** Quarterly  

### Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

**Date of Government Version:** 08/26/2015  
**Source:** Environmental Health Division  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 09/15/2015  
**Date Made Active in Reports:** 10/15/2015  
**Number of Days to Update:** 30  
**Next Scheduled EDR Contact:** 12/28/2015  
**Data Release Frequency:** Quarterly  

### YOLO COUNTY:

#### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

**Date of Government Version:** 10/19/2015  
**Source:** Yolo County Department of Health  
**Telephone:** 530-666-8646  
**Date Data Arrived at EDR:** 10/27/2015  
**Date Made Active in Reports:** 11/19/2015  
**Number of Days to Update:** 23  
**Next Scheduled EDR Contact:** 01/18/2016  
**Data Release Frequency:** Annually  

### YUBA COUNTY:
CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/04/2015
Date Data Arrived at EDR: 08/07/2015
Date Made Active in Reports: 09/03/2015
Number of Days to Update: 27
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/16/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/13/2015
Next Scheduled EDR Contact: 01/25/2016
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: 08/01/2015
Date Data Arrived at EDR: 08/06/2015
Date Made Active in Reports: 08/24/2015
Number of Days to Update: 18
Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/08/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25
Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26
Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Annually
WI MANIFEST: Manifest Information
Hazardous waste manifest information.
- Date of Government Version: 12/31/2014
- Date Data Arrived at EDR: 03/19/2015
- Date Made Active in Reports: 04/07/2015
- Number of Days to Update: 19
- Source: Department of Natural Resources
- Telephone: N/A
- Last EDR Contact: 09/10/2015
- Next Scheduled EDR Contact: 12/28/2015
- Data Release Frequency: Annually

Oil/Gas Pipelines
- Source: PennWell Corporation
- Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
- Source: PennWell Corporation
- This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

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: 916-637-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
- Source: Department of Fish & Game
- Telephone: 916-445-0411
Assessment of the impact of contaminant migration generally has two principal 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.
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 ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES

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.
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
- Target Property County: HUMBOLDT, CA
- FEMA Flood Electronic Data: YES - refer to the Overview Map and Detail Map
- Flood Plain Panel at Target Property: 0604360450B - FEMA Q3 Flood data
- Additional Panels in search area: 0600600450B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY
- NWI Quad at Target Property TRINIDAD
- NWI Electronic Data Coverage: 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
- Status: Not found

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.

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>LOCATION</th>
<th>GENERAL DIRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Reported</td>
<td>FROM TP</td>
<td>GROUNDWATER FLOW</td>
</tr>
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</table>

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.
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: Mesozoic
System: Cretaceous
Series: Upper Mesozoic
Code: uMze (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits


DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture’s (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

No detail available.

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

<table>
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<th>DATABASE</th>
<th>SEARCH DISTANCE (miles)</th>
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<tbody>
<tr>
<td>Federal USGS</td>
<td>1.000</td>
</tr>
<tr>
<td>Federal FRDS PWS</td>
<td>Nearest PWS within 0.001 miles</td>
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<tr>
<td>State Database</td>
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FEDERAL USGS WELL INFORMATION

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<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
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<tbody>
<tr>
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FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

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<tbody>
<tr>
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Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

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<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
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<tbody>
<tr>
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### AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

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<th>Num Tests</th>
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<td>95570</td>
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Federal EPA Radon Zone for HUMBOLDT County: 3

- 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 Zip Code: 95570

Number of sites tested: 1

<table>
<thead>
<tr>
<th>Area</th>
<th>Average Activity</th>
<th>% &lt;4 pCi/L</th>
<th>% 4-20 pCi/L</th>
<th>% &gt;20 pCi/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living Area - 1st Floor</td>
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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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

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

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
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 Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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.
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

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.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
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.

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.

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Trinidad Harbor
1 Bay Street
Trinidad, CA 95570

Inquiry Number: 4483869.5
December 08, 2015

The EDR-City Directory Image Report

Environmental Data Resources Inc
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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.

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.

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RECORD SOURCES

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**FINDINGS**

**TARGET PROPERTY STREET**

1 Bay Street  
Trinidad, CA  95570

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FINDINGS

CROSS STREETS

No Cross Streets Identified
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**BAY** 1999

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BAY  1992

0  SEASCAPE RESTR
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.

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Date EDR Searched Historical Sources:
Aerial Photography December 07, 2015

Target Property:
1 Bay Street
Trinidad, CA 95570

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INQUIRY #: 4483869.9
YEAR: 2005

= 500'
Trinidad Harbor
1 Bay Street
Trinidad, CA 95570

Inquiry Number: 4483869.4
December 04, 2015
EDR Historical Topo Map Report

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</tr>
<tr>
<td>City, State, Zip:</td>
<td>Sacramento, CA 9581</td>
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<tr>
<td>Contact:</td>
<td>Kassandra Dickerson</td>
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EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Analytical Environmental Serv. 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:

<table>
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<td>Address:</td>
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### Coordinates:

| Latitude: | 41.0567 41° 3' 24" North |
| Longitude: | -124.1476 -124° 8' 51" West |
| UTM Zone: | Zone 10 North |
| UTM X Meters: | 403566.94 |
| UTM Y Meters: | 4545685.69 |
| Elevation: | 33.81' above sea level |

Maps Provided:

- 2012
- 1966
- 1952
- 1945

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**Topo Sheet Thumbnails**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets

- **Crannell** 2012 7.5-minute, 24000
- **Trinidad** 2012 7.5-minute, 24000

### 1966 Source Sheets

- **Crannell** 1966 7.5-minute, 24000 Aerial Photo Revised 1964
- **Trinidad** 1966 7.5-minute, 24000 Aerial Photo Revised 1964

### 1952 Source Sheets

- **Trinidad** 1952 15-minute, 62500 Aerial Photo Revised 1942

### 1945 Source Sheets

- **Trinidad** 1945 15-minute, 62500 Aerial Photo Revised 1942
This report includes information from the following map sheet(s).

- TP, Trinidad, 2012, 7.5-minute
- E, Crannell, 2012, 7.5-minute

SITE NAME: Trinidad Harbor
ADDRESS: 1 Bay Street
Trinidad, CA 95570
CLIENT: Analytical Environmental Serv.
This report includes information from the following map sheet(s).

- TP, Trinidad, 1966, 7.5-minute
- E, Crannell, 1966, 7.5-minute

SITE NAME: Trinidad Harbor
ADDRESS: 1 Bay Street
Trinidad, CA 95570
CLIENT: Analytical Environmental Serv.
This report includes information from the following map sheet(s).

SITE NAME: Trinidad Harbor
ADDRESS: 1 Bay Street
         Trinidad, CA 95570
CLIENT: Analytical Environmental Serv.
This report includes information from the following map sheet(s).

TP, Trinidad, 1945, 15-minute

Miles

0.25  0.5  1  1.5

SITE NAME: Trinidad Harbor
ADDRESS: 1 Bay Street
Trinidad, CA 95570
CLIENT: Analytical Environmental Serv.
Trinidad Harbor
1 Bay Street
Trinidad, CA 95570

Inquiry Number: 4483869.3
December 04, 2015
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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:

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**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.

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ATTACHMENT B
RESUMES
David Zweig, PE, President

Education: B.S., Civil Engineering, University of California, Berkeley
Registration: California P.E. License #C048031; Washington P.E. License #28181

Mr. Zweig is experienced in preparing both routine and complex Phase I and Phase II Environmental Site Assessments, water rights permitting and regulatory compliance, and conducting water quality monitoring. Mr. Zweig has provided technical oversight and completed numerous Phase I and Phase II hazardous materials investigations for public agencies and private parties throughout California and the U.S. Mr. Zweig is very familiar with the regulatory issues faced by private industry and public agencies, and is adept at facilitating compliance with local, state and federal environmental laws. A partial listing of recent Phase I and Phase II reports completed by AES is provided below.

- 15th Street 0.40± acre Phase I ESA, Sacramento County, CA
- 1811 12th Street Phase I ESA, Sacramento County, CA
- 2000 O Street 3 Parcel Phase I ESA, Sacramento County, CA
- 2020 W El Camino 16-acre Phase I ESA, Sacramento County, CA
- 2327 L Street 0.22-acre Parcel Phase I ESA, Sacramento County, CA
- 2401 J Street 0.45-acre Phase I ESA, Sacramento County, CA
- 2816 D Street Dwellings 2 Parcel Phase I ESA, Sacramento County, CA
- 3031 F Street 0.44-acre Phase I ESA, Sacramento County, CA
- 730 Howe Avenue Phase I ESA, Sacramento County, CA
- 825 15th Street 0.40± acre Phase I ESA, Sacramento County, CA
- City of Sacramento - McKinley Village Residential Infill EIR/Phase I/II ESA, Sacramento County, CA
- MJL Properties - 3516 Fair Oaks Boulevard 0.36 acre Phase I ESA, Sacramento County, CA
- Overnite Transportation - 10000 Waterman Road 54.7-acre Phase I ESA, Sacramento County, CA
- Shirland Tract 41-acre Phase I ESA, Sacramento County, CA
- Clover Valley Reservoir 35-acre Phase I ESA, Placer County, CA
- Thunder Valley Casino Phase I ESA, Placer County, CA
- UAIC 1,100-acre Housing Project Fee-to-Trust EA, Phase I ESA, Placer County, CA
- Shingle Springs Rancheria Casino Phase I ESA, El Dorado County, CA
- 210 N East Road Woodland Phase I ESA, Yolo County, CA
- Sugarloaf Ranch Phase I ESA, Yolo County, CA
- 2050 Nut Tree 4.15-acre Phase I ESA, Solano County, CA
- 1144 Starr View Road Phase I ESA, Sonoma County, CA
- 1398 Gumview Road Phase I ESA, Sonoma County, CA
- 1486 Gumview Road Phase I ESA, Sonoma County, CA
- 18 East Fulton Road Phase I ESA, Sonoma County, CA
- 437 Aviation Boulevard 1.74-acre Phase I ESA, Sonoma County, CA
- Cloverdale Rancheria Casino Lease Phase I ESA, Sonoma County, CA
- Ernst Property Phase I ESA, Sonoma County, CA
- Graton Rancheria Casino 300-acre Phase I/II ESA, Sonoma County, CA
- Jordan Vineyard Phase I ESA, Sonoma County, CA
- SLAC Phase I ESA, Sonoma County, CA
- Colusa Residential Development Phase I ESA, Colusa County, CA
- Point Molate Casino and Resort Phase I ESA, Contra Costa County, CA
- San Pablo Lytton Casino Phase I ESA, Contra Costa County, CA
- Scotts Valley 2 Parcel-155 Parr Boulevard Phase I ESA, Contra Costa County, CA
- Enterprise Rancheria 40-acre Property Phase I ESA, Butte County, CA
- Mechoopda Casino 650-acre Casino **Phase I ESA**, Butte County, CA
- Amador Water Agency - 44.6-acre **Phase I ESA**, Amador County, CA
- Ione Band of Miwok Indians 228.04-acre **Phase I ESA**, Amador County, CA
- Lower Lake Rancheria Koi Nation Casino **Phase I ESA**, Alameda County, CA
- Elk Valley Rancheria Tribal Office **Phase I ESA**, Del Norte County, CA
- Bear River Band Casino 18-acre Property **Phase I ESA**, Humboldt County, CA
- Big Lagoon Rancheria Casino 11-acres **Phase I ESA**, Humboldt County, CA
- Blue Lake Rancheria Casino **Phase I ESA**, Humboldt County, CA
- Fearrion 125-acre Property **Phase I ESA**, Humboldt County, CA
- Hoopa Valley Tribe Saw Mill Site (Portions of Lots 283-298) **Phase I ESA**, Humboldt County, CA
- Alturas Indian Rancheria Shasta Mountain Facility 160-acre **Phase I ESA**, Siskiyou County, CA
- Ewiaapaap Walker Parcel 16.69-acre **Phase I ESA**, Alpine County, CA
- Grindstone Rancheria Casino 109-acre **Phase I ESA**, Glenn County, CA
- Coyote Valley **Phase I ESA**, Mendocino County, CA
- Pinoleville Casino **Phase I ESA**, Mendocino County, CA
- Upper Lake Casino and Resort **Phase I ESA**, Lake County, CA
- Paskenta Property **Phase I ESA**, Tehama County, CA
- 1001 Van Ness Avenue +0.75-acre **Phase I ESA**, San Francisco County, CA
- Milbanks **Phase I ESA**, San Francisco County, CA
- Federico's Restaurant 15,000 square foot **Phase I ESA**, Santa Barbara County, CA
- Santa Ynez Band of Chumash Indians Casino Expansion **Phase I ESA**, Santa Barbara County, CA
- Royal Scandinavian Inn 3.87-acre **Phase I ESA**, Santa Barbara County, CA
- Table Mountain Rancheria 170-acre **Phase I ESA**, Fresno County, CA
- North Fork Casino 305-acre Property **Phase I ESA**, Madera County, CA
- North Fork Rancheria 80-acre Property **Phase I ESA**, Madera County, CA
- 180 Litton Drive 4.5-acre **Phase I ESA**, Nevada County, CA
- Barstow Casino and Resort **Phase I ESA**, San Bernardino County, CA
- Timbisha Shoshone 58.08-acre Property **Phase I ESA**, San Bernardino County, CA
- Desert Mobile Home Park (Duroville) **Phase I/Phase II ESA**, Riverside County, CA
- Jamul Tribe Casino **Phase I ESA**, San Diego County, CA
- La Jolla Casino **Phase I ESA**, San Diego County, CA
- Pauma Band of Luiseno Indians **Phase I ESA**, San Diego County, CA
- San Pasqual 3.25-acre Property Overview/Phase **Phase I ESA**, San Diego County, CA
- Sycuan Property 1,357-acres **Phase I ESA**, San Diego County, CA
- Torrez Martinez 20-acre Property **Phase I ESA**, Imperial County, CA
- Chicken Ranch Rancheria 47.25-acre **Phase I ESA**, Tuolumne County, CA
- Samish Indian Nation **Phase I ESA**, City of Anacortes, Skagit County, WA
- Ho-Chunk Beloit Casino **Phase I ESA**, City of Beloit, Rock County, WI
Trenton Wilson,  
Project Manager  

Education:  B.S., Environmental Toxicology (Specialization in Environmental Analytical Chemistry) 
University of California, Davis

Mr. Wilson is an environmental toxicologist with over 15 years of experience in performing and managing environmental monitoring projects and providing technical oversight including identification and evaluation of the fate and transport of contaminants in support of environmental compliance projects. Areas of expertise include hazardous materials assessment and remediation, environmental chemistry and toxicology, contaminant identification and sample plan preparation, evaluation of analytical results and determination of compliance obligations, and oversight of analytical toxicology studies and preparation of associated compliance reports. Mr. Wilson also has experience developing and performing various types and levels of environmental monitoring projects including long-term, multi-faceted monitoring projects, performing technical monitoring studies, preparing technical reports, conducting impact analysis, and developing mitigation protocols. As staff Toxicologist, he works with other project managers, coordinates/consults with jurisdictional agencies (U.S Environmental Protection Agency, California Regional Water Quality Control Boards, Department of Toxic Substance Control, Office of Environmental Health Hazard Assessment, as well as numerous county, city, and special districts), and legal counsel to ensure environmental monitoring studies, data, and analyses are technically accurate and legally defensible. Mr. Wilson has also served as lead instructor for various types of technical training sessions including hazardous materials courses such as the mandated 40-hour Hazardous Wastes Operations for emergency response to hazardous waste incidents under 29 CFR 1910.120. Mr. Wilson is an Environmental Professional as defined under the recent amendment to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

HazMat/Phase I

- Lytton Rancheria 1.25-Acres Phase I ESA, Windsor, Sonoma County, CA.
- Lytton Rancheria 2.29-Acres Phase I ESA, Windsor, Sonoma County, CA.
- MJL Phase I Environmental Site Assessment, Sacramento, Sacramento County, CA.
- Shirland Tract Phase I Environmental Site Assessment, Auburn, Placer County, CA.
- Lake Dalwigk Dredging and Soil Reuse/Disposal Assessment, Vallejo, CA. Designed sampling plan, assessed sample results, and developed appropriate mitigation measures to allow partial reuse of dredged soils for wetland development and determined appropriate disposal methods of hazardous soils.
- Copper Whole- Effluent Toxicity Study, Placer County, CA. Determined the toxicological activity of copper within wastewater to assess accuracy of permitted discharge levels established by the Regional Water Quality Control Board.
- Sonoma County Water Agency - Russian River Irrigation Expansion and Beneficial Reuse Project EIR, Sonoma County, CA. Toxicological assessment of contaminants of emerging concern in recycled water and determination of impacts related to expanded use of recycled water in the vicinity of the Russian River.
- Instructor, 2000-Current. Courses included Hazardous Materials Chemistry and Toxicology for private companies; OSHA 40-hour Hazardous Waste Operations (Hazwoper)-Toxicology Section for private companies and government institutions; Clandestine Drug Lab Basic Safety for the Drug Enforcement Agency in Quantico, Virginia.
## Construction Mitigation Summary

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#### Percent Reduction

- PM10 Reduction: 0.00%
- PM2.5 Reduction: 0.00%

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CalEEMod Version: CalEEMod.2013.2.2

Date: 2/23/2016 4:03 PM

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### Operational Percent Reduction Summary

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### Operational Mobile Mitigation

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