Appendices

Appendix A BIOLOGICAL RESOURCES ANALYSIS

BIOLOGICAL RESOURCE ANALYSIS
2600 WILBUR AVENUE PROJECT
ANTIOCH, CONTRA COSTA COUNTY, CALIFORNIA

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Prepared for

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ATTACHMENTS

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1. INTRODUCTION

Monk & Associates, Inc. (M&A) prepared this biological resource analysis for the proposed 2600 Wilbur Avenue Project (herein also referred to as the proposed project) located in Antioch, Contra Costa County, California (Figures 1 and 2). The purpose of our analysis is to provide a description of existing biological resources on the project site and to identify potentially significant impacts that could occur to sensitive biological resources from the construction of a proposed residential development.

Biological resources include common plant and animal species, and special-status plants and animals as designated by the U.S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), National Marine Fisheries Service (NMFS), and other resource organizations including the California Native Plant Society (CNPS). Biological resources also include waters of the United States and State, as regulated by the U.S. Army Corps of Engineers (Corps), California Regional Water Quality Control Board (RWQCB), and the CDFW.

This biological resource analysis includes identification of "potentially significant" and "significant impacts" as defined by the California Environmental Quality Act (CEQA) that could occur to sensitive biological resources. Mitigation measures have been developed for all identified "potentially significant" and "significant" impacts, and upon implementation would reduce the effects of such impacts to levels regarded as less than significant pursuant to the CEQA.

2. PROPERTY LOCATION AND SETTING

The approximately 10.30-acre project site is located at 2600 Wilbur Avenue in the City of Antioch, Contra Costa County, California, California (Figures 1 and 2). The project site is bordered to the north by Wilbur Avenue, to the west and east by active industrial development, and to the south by active railroad lines (Atchison, Topeka, and Santa Fe Railroad). The project site is a heavily disturbed industrial parcel that has been used for industrial purposes for decades. A railroad spur through the project site remains from past industrial uses extending from the northeast corner of the project site to the southern center of the project site. Historically, the project site was used for paper manufacturing. In 2003, a Voluntary Cleanup Agreement was signed with Gaylord Container Corporation (d/b/a Inland Paperboard and Packaging) and later in the year soil and groundwater investigations were conducted. Results from those investigations did not identify any unacceptable risks to human health and/or the environment.

Currently, the project site is a mix of existing development on the east and west ends of the project site, and areas that were formerly developed. Most of the middle of the site has been cleared of all buildings/structures with the exception of two slab foundations and the railroad spur dating to a paper manufacturing business that ceased operations in the 1990s. This business required massive storage areas for cardboard that was recycled into salable products. In addition,

the site was used as a bunker oil storage site transported to and stored in massive tanks on the site. This bunker oil was transported via rail to the owner's paper manufacturing factories elsewhere in eastern Contra Costa County.

An active industrial warehouse with associated parking and storage is located in the eastern area of the project site, and vehicle storage and an occupied trailer are located in the western area of the project site. The balance of the project site that is undeveloped today, consists of the formally used areas for the paper manufacturing business. These formerly used areas now support bare ground, comprised of hard-packed gravel-impregnated soils that resulted from many years of industrial use. While the site remains well-maintained, some ruderal (weedy) herbaceous vegetation occurs on the project site, primarily along the property boundaries under or along fence lines.

The project site is surrounded on the east, northeast and southeast a mixture of agricultural land (vineyard) and ruderal habitat. To the west, northwest and southwest is all industrial warehouses. Wilbur Avenue is to the north of the project site. An operational railroad corridor that is relatively heavily used on a daily basis is located directly south of the project site. Figure 3 provides an aerial photograph of the project site showing the land use of the site and the surrounding area.

3. PROPOSED PROJECT

The proposed 6.10-acre project is the first phase of a two-phased project (See attached Phasing Plan prepared in February 2020 by CBG civil engineers). Per the Preliminary Site Plan prepared by CBG civil engineers dated February 2020, Phase 1 will maintain the existing warehouse business (a home improvements business) and its associated parking/storage lots. In addition, a large parking lot will be paved, and a wash station and a fuel station will be constructed. Phase 2 includes the construction of a new warehouse (Shop Building) that will use 2.10 acres of the project site. Approximately 1.70 acres on the west end of the project site will be used as a storage area.

A stormwater management plan will be constructed as part of the project that is compliant with the Clean Water Act, National Pollutant Discharge Elimination System C.3 requirements. One detention basin will be constructed that will collect and treat stormwater for the majority of the residential development. This basin will discharge treated water via a 12-inch perforated pipe into and through a drain field consisting of Class II permeable rock installed at the base of the detention basin. This discharge through the 12-inch perforated pipe will foster percolation and ground water recharge. All existing storm drain inlets and storm drain pipelines will be replaced as part of the Phase 1 project.

4. ANALYSIS METHODS

Prior to preparing this biological resource analysis report, M&A researched the most recent version of the CDFW Natural Diversity Database, RareFind 5 application (CNDDB 2019), the US Fish and Wildlife Service Information for Planning and Consultation (USFWS IPAC) database, and the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants database for historical and recent records of special-status plant and animal species (that

is, threatened, endangered, rare) known to occur in the region of the project site. All CNDDB special-status species records within 3 miles of the project site were compiled in tables. M&A reviewed all known records and any available biological survey reports to determine if special-status species could occur on the project site or within an area of effect of the development project.

4.1 M&A Site Surveys

M&A biologists, Mr. Geoff Monk and Mr. Jesse Reebs, conducted a survey of the project site on January 7, 2020. Mr. Monk and Ms. Monica Matthews conducted another survey on January 12, 2020 to record biological resources and to assess the likelihood of agency-regulated areas on the project site. M&A's site evaluation included a thorough examination of the site to document potential habitats on or adjacent to the project site that could support special-status species and/or waters of the U.S. and state. The survey involved searching all habitats on the site and recording all plant and wildlife species observed. M&A cross-referenced the habitats found on the project site against the habitat requirements of local or regionally known special-status species to determine if the proposed project could directly or indirectly impact such species.

4.2 Special-Status Plant Surveys

M&A conducted two special-status (that is, rare, threatened, or endangered) plant surveys on January 7 and January 12, 2020 on the project site. These surveys confirmed that the project site consists of developed surfaces or areas that remain as gravel-impregnated, well-maintained parking and storage areas. A few ruderal herbaceous species occur at locations along fence lines, and where utilities stick up out of the ground where weeds were not cleared as well as the balance of the site over successive years of site maintenance. All plants observed are presented in Table 1. The project site supports no natural communities and rare plants would not occur on the project site.

4.3 Wetland Delineation

During the two surveys conducted on the project site on January 7 and January 12, 2020, no hydrophytic plants, hydric soil or hydrology was noted within the boundaries of the project site. Thus, development of the project site would not trigger any requirement to obtain Clean Water Act permits from the U.S. Army Corps of Engineers (Corps) or the California Regional Water Quality Control Board (RWQCB).

It is unclear at this time if there will be off-site impacts, but there is a reasonable expectation that Wilber Avenue may be subjected to improvements adjacent to the project site as a condition of project approval by the City of Antioch. No likely plant or wildlife habitats would be impacted and similarly no likely Clean Water Act regulated features would be affected. Once it is determined that there will be offsite required improvements, M&A will review formal improvement plans to confirm that there would be no potentially significant or significant impacts to biological resources from construction of these improvements.

5. RESULTS OF RESEARCH AND PROJECT SITE ANALYSES

5.1 Topography and Hydrology

The majority of the project site is a leveled, industrial site. Outside of existing developed areas, gravel and recycled asphalt have been spread over and mixed into the soils throughout the property making hard-pack, all-weather-working surfaces that were used for many decades as part of the cardboard recycling business. There is evident historical fill that occurred at the east end of the project site prior to the construction of the existing warehouse bringing this end of the project site level with the balance of the project site. The far northeast corner of this fill slopes downward about 4 vertical feet over an approximately 3:1 slope to Wilbur Avenue.

The highly compacted "base rocked" parking and formerly used storage areas have low permeability. Most rainfall sheds north and eastward off of the project site to Wilber Avenue. Minor depressions in the compacted graveled surface can puddle right after large rainfall events, holding water for a few days after such events during the winter months. These "parking lot puddles" would not be regarded as wetlands or other waters subject to regulation by the Corps or RWQCB.

In the northeastern corner of the project site an 8-inch corrugated high-density polyethylene pipe discharges stormwater presumably from the warehouse roof top downspouts and other developed surfaces. This pipe discharges in a riprap field on the 3:1 slope in the northeast corner of the project site where sheet flows daylight below the riprap field and continue northeast toward Wilbur Avenue.

5.2 Plant Communities and Associated Wildlife Habitats

A complete list of plant species observed on the project site is presented in Table 1. Nomenclature used for plant names follow *The Jepson Manual, 2nd edition* (Baldwin 2012) and changes made to this manual as published on the Jepson Interchange Project website. Table 2 is a list of wildlife species observed on the project site. Nomenclature for wildlife follows CDFW's *Complete list of amphibian, reptile, bird, and mammal species in California* (CDFW 2016) and any changes made to species nomenclature as published in scientific journals since the publication of CDFW's list.

The project site is dominated by gravel impregnated barren ground that has been used for decades for industrial purposes that include structures, a rail spur, parking, and storage areas. These areas are well maintained and are mostly devoid of plants with the exceptions of a few California live oak (*Quercus agrifolia*) trees on the west end of the project site. Ruderal herbaceous plants that mostly occur along the northern and western property boundaries also occurs. The remnants of plant communities do not constitute plant communities. The occurrence of plant species found on the project site that are known to be associated with recognized plant communities are further discussed below.

5.2.1 RUDERAL HERBACEOUS PLANTS

Ruderal plants thrive in waste areas, roadsides, and other sites that have been disturbed by human activity. On the project site such vegetation occurs in limited locations most under or near

fences that have prevented maintenance activities from clearing this vegetation. Dominant ruderal grass and forb species found on the project site include non-native species such as ripgut grass (*Bromus diandrus*), smilo grass (*Stipa miliacea* var. *miliacea*), stinkwort (*Dittrichia graveolens*), and yellow star thistle (*Centaurea solstitialis*). Subdominants include cheeseweed (*Malva parviflora*), and filaree (*Erodium cicutarium, E. moschatum*). Wild mustard (*Sinapis arvensis*), annual yellow sweetclover (*Melilotus indicus*), and spotted spurge (*Euphorbia maculata*) can also be found in the ruderal plant assemblage. One native ruderal species, telegraph weed (*Heterotheca grandiflora*), was found in sparse locations along the fence line next to Wilbur Avenue.

5.2.2 ANTHROPOGENIC COMMUNITIES

The vegetation along the western and eastern property boundaries would be classified as anthropogenic communities. Anthropogenic communities are plant communities dominated by plants introduced by man and established or maintained by human disturbance. Some of these communities are assemblages of ruderal species that have invaded disturbed areas while others are entirely artificial communities such as agricultural row crops or orchards. Anthropogenic communities can support a few native species although they are generally dominated by non-native taxa that thrive in high disturbance conditions.

A few scattered coast live oaks (*Quercus agrifolia* var. *agrifolia*) are located along the western property boundary surrounding an active vehicle storage lot and trailer. These trees may date to prior to the industrial use of the project site but have been incorporated into the use areas through avoidance.

5.3 Wildlife Corridors

Wildlife corridors are linear and/or regional habitats that provide connectivity to other natural vegetation communities within a landscape fractured by urbanization and other development. Wildlife corridors have several functions: 1) they provide avenues along which wide-ranging animals can travel, migrate, and breed, allowing genetic interchange to occur; 2) populations can move in response to environmental changes and natural disasters; and 3) individuals can recolonize habitats from which populations have been locally extirpated (Beier and Loe 1992). All three of these functions can be met if both regional and local wildlife corridors are accessible to wildlife. Regional wildlife corridors provide foraging, breeding, and retreat areas for migrating, dispersing, immigrating, and emigrating wildlife populations. Local wildlife corridors also provide access routes to food, cover, and water resources within restricted habitats.

The proposed project will not interfere with the movement of native wildlife as the site has had an industrial history for decades and is surrounded by ruderal, agricultural, viticultural and industrial land uses on all sides for numerous square miles. It is also surrounded by 6-foot chain-link fence on the north, east, and west sides, and a solid 10-foot metal fence on the south side of the project site where it abuts the railroad corridor.

6. SPECIAL-STATUS SPECIES DEFINITION

6.1 Definitions

For purposes of this analysis, special-status species are plants and animals that are subject to the California and federal Endangered Species Acts (CESA and FESA, respectively) and species that are considered rare by the scientific community (for example, the CNPS). Special-status species are defined as:

- plants and animals that are listed or proposed for listing as threatened or endangered under the CESA (Fish and Game Code §2050 *et seq*.; 14 CCR §670.1 *et seq.*) or the FESA (50 CFR 17.12 for plants; 50 CFR 17.11 for animals; various notices in the Federal Register [FR] for proposed species);

- plants and animals that are candidates for possible future listing as threatened or endangered under the FESA (50 CFR 17; FR Vol. 64, No. 205, pages 57533-57547, October 25, 1999); and under the CESA (California Fish and Game Code §2068);

- plants and animals that meet the definition of endangered, rare, or threatened under the California Environmental Quality Act (CEQA) (14 CCR §15380) that may include species not found on either State or Federal Endangered Species lists;

- plants occurring on Ranks 1A, 1B, 2A, 2B, 3, and 4 of CNPS' electronic *Inventory* (CNPS 2001). The CDFW recognizes that Ranks 1A, 1B, 2A and 2B of the CNPS inventory contain plants that, in the majority of cases, would qualify for State listing, and the CDFW requests their inclusion in EIRs. Plants occurring on CNPS Ranks 3 and 4 are "plants about which more information is necessary," and "plants of limited distribution," respectively (CNPS 2001) (more on CNPS Rank species below);

- many of the plants constituting California Rare Plant Rank 3 may meet the definitions of threatened or endangered per the California Endangered Species Act and could be eligible for state listing. Impacts to Rank 3 plant species or their habitats should be analyzed during preparation of environmental documents relating to CEQA, or those considered to be functionally equivalent to CEQA, as they may meet the definition of Rare or Endangered under CEQA Guidelines §15125(c) and/or §15380. Additional plants may be included as special-status species on a case by case basis due to local significance or recent biological information;

- migratory nongame birds of management concern listed by USFWS (Migratory Nongame Birds of Management Concern in the United States: The list 1995; Office of Migratory Bird Management; Washington D.C.; Sept. 1995);

- animals that are designated as "species of special concern" by the CDFW (2016);

- Animal species that are "fully protected" in California (Fish and Game Codes 3511, 4700, 5050, and 5515).

In the paragraphs below, we provide further definitions as they pertain to the special-status species discussed in this report or in the attached tables.

Federal Endangered or Threatened Species. An endangered species under the FESA is any species which is in danger of extinction throughout all or a significant portion of its range. A Threatened species means any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range. "Take" of an endangered or threatened species, as defined by federal law, is generally prohibited unless authorized by the USFWS.

State Endangered or Threatened Species. "Take" of a species listed as threatened or endangered under the CESA (§2050 of California Fish and Game Code) as defined by state law is to harass, pursue, hunt, shoot, trap, and may be authorized by CDFW pursuant to the California Fish and Game Code.

California Species of Special Concern. These are species in which their California breeding populations are seriously declining and extirpation from all or a portion of their range is possible. This designation affords no legally mandated protection; however, pursuant to the CEQA Guidelines (14 CCR §15380), some species of special concern could be considered "rare" and in accordance with the CEQA Guidelines the potential effects of a proposed project should be considered on rare species as well as any species that are officially designated as threatened or endangered.

CNPS Rank Species. The CNPS maintains an "Inventory" of special-status plant species. This inventory has four lists of plants with varying rarity. These lists are: Rank 1, Rank 2, Rank 3, and Rank 4. Although plants on these lists have no formal legal protection (unless they are also state or federally-listed species), the CDFW requests the inclusion of Rank 1 species in environmental documents. In addition, other state and local agencies may request the inclusion of species on other lists as well.

The Rank 1 and 2 species are defined below:

- Rank 1A – Presumed extinct in California;
- Rank 1B – Rare, threatened, or endangered in California and elsewhere;
- Rank 2A: Plants presumed extirpated in California, but more common elsewhere;
  Rank 2B: Rare, threatened, or endangered in California, but more common elsewhere.

All of the plants constituting Rank 1B meet the definitions of Section 1901, Chapter 10 (Native Plant Protection Act) or Sections 2062 and 2067 (CESA) of the Fish and Game Code and are eligible for state listing (CNPS 2001). Rank 2 species are rare in California, but more common elsewhere. Ranks 3 and 4 contain species about which there is some concern, and are review and watch lists, respectively.

Additionally, in 2006, CNPS updated their lists to include "threat code extensions" for each list. For example, Rank 1B species would now be categorized as Rank 1B.1, Rank 1B.2, or Rank 1B.3. These threat codes are defined as follows:

- .1 is considered "seriously endangered in California (over 80% of occurrences threatened/high degree and immediacy of threat)";
- .2 is "fairly endangered in California (20-80% of occurrences threatened)";
- .3 is "not very endangered in California (less than 20% of occurrences threatened or no current threats known)."

Under the CEQA review process only CNPS Rank 1 and 2 species are considered since these are the only CNPS species that meet CEQA's definition of "rare" or "endangered". Impacts to Rank 3 and 4 species are not regarded as significant pursuant to CEQA.

Fully Protected Birds. Fully protected birds, such as the white-tailed kite and golden eagle, are protected under California Fish and Game Code (§3511). Fully protected birds may not be "taken" or possessed (i.e., kept in captivity) at any time.

6.2 Potential Special-Status Plants That Could Be Affected by the Project

Figure 4 provides a graphical illustration of the known records for special-status plant species within three miles of the project site and helps readers visually understand the number of sensitive species that occur near the project site. According to the CDFW's CNDDB, a total of 14 special-status plant species are known to occur in the region of the project site (Table 3). The database search that M&A conducted for the Antioch North 7.5 Quadrangle using the CNPS Inventory of Rare and Endangered Plants generated a list of 24 plants in the region surrounding the project site. All special-status plants in this list, including the 14 located within a three-mile radius of the project site and enumerated in Table 3, occur in specialized plant communities/habitats that do not occur on the project site such as marshes and swamps, vernal pools, dunes, valley and foothill grassland, riparian scrub, and chaparral. Therefore, M&A concludes that the project site does not provide "suitable" habitat for any special-status plant species known to occur within three miles or for that matter any distance from the project site.

6.3 Potential Special-Status Wildlife Species That Could Be Affected by the Project

Figure 4 provides a graphical illustration of the known CNDDB records for special-status wildlife species within three miles of the project site and helps readers visually understand the number of sensitive species that occur in the vicinity of the project site. A total of 14 federally protected wildlife species known to occur within the region of the project site, as shown by the list M&A generated from the USFWS IPAC database search. Three of these species, the Delta green ground beetle (*Elaphrus viridis*), the San Bruno elfin butterfly (*Callophrys mossii bayensis*) and the valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), do not occur in Contra Costa County or neighboring counties, and are present either is specific localities, or rely on specific host plants, thus making the project site unsuitable for these species. The remaining species on this list also rely on specialized habitat, such as friable soil for burrowing, dunes, marshes and swamps, pools, creeks, rivers, sloughs and coastal flats. A total of 18 special-status wildlife species are known to occur in the vicinity of the project site according to the CDFW's CNDDB records (Table 4), 3 of which are discussed in detail below.

The Delta smelt (*Hypomesus transpacificus*) is one of the 18 special-status species that has been observed within a three-mile radius of the project site, and the project site is located within the mapped critical habitat of Delta smelt. However, considering the entire project site is composed of hard-packed, gravel-impregnated soils, there is no suitable habitat for Delta smelt located on or adjacent to the project site. A discussion of all 18 special-status wildlife species is provided in Table 3.

6.3.1 WHITE-TAILED KITE

The white-tailed kite (*Elanus caeruleus*) is a "Fully Protected" species under the California Fish and Game Code (§3511). Fully protected birds may not be "taken" or possessed (i.e., kept in captivity) at any time. It is also protected under the federal Migratory Bird Treaty Act (50 CFR 10.13). The white-tailed kite is typically found foraging in grassland, marsh, or cultivated fields where there are dense-topped trees or shrubs for nesting and perching. They nest in a wide variety of trees of moderate height and sometimes in tall bushes, such as coyote bush (*Baccharis pilularis*). Native trees used are live and deciduous oaks (*Quercus* spp.), willows (*Salix* spp.), cottonwoods (*Populus* spp.), sycamores (*Platanus* spp.), maples (*Acer* spp.), toyon (*Heteromeles arbutifolia*), and Monterey cypress (*Cupressus macrocarpa*). Although the surrounding terrain may be semi-arid, kites often reside near water sources, where prey is more abundant. The particular characteristics of the nesting site do not appear to be as important as its proximity to a suitable food source (Shuford 1993). Kites primarily hunt small mammals, with California meadow voles accounting from between 50-100% of their diet (Shuford 1993).

The closest known nesting record for this species is located 2.7 miles south of the project site (CNDDB Occurrence No. 87). The coast live oak trees along the western property boundary provide "suitable nesting habitat" for this species but would be unlikely to be used for nesting. Suitable doesn't infer presence only that presence cannot be ruled out without a formal survey conducted in the nesting season. M&A believe it most unlikely that this raptor would nest in these trees owing to 1) the extent of continual disturbance associated with this industrial site up to and including under the oaks that persist on this site; 2) the absence of hunting habitat adjacent to the project site. Almost all surrounding uses around the project site are industrial with the exception of vineyards south of the railroad corridor. Vines are held up via guide wires which are typically lethal to raptors that are known to break wings on vineyard support cabling. Thus, typically, most raptors will not hunt in vineyards even when other agricultural croplands can be used by raptors.

Regardless, out of an abidance of caution, nesting bird surveys shall be conducted at least two weeks to confirm absence of active nesting birds on or within a zone of influence of the project site prior to construction. If any nesting birds are found, non-disturbance buffers will be established to protect the nesting birds while nesting. Please see Impacts and Mitigation Sections below for how the project will address potential impacts to nesting birds. Because the site does not provide foraging habitat and is an actively used industrial site, *impacts to white-tailed kite are regarded as less than significant pursuant to the CEQA.*

6.3.2 SWAINSON'S HAWK

The Swainson's hawk (*Buteo swainsonii*) is a state-listed threatened species afforded protection pursuant to the CESA. While it has no special federal status, it is protected from direct take

under the federal Migratory Bird Treaty Act of 1918 (16 U.S.C. 703-711). Swainson's hawks, their nests, eggs, and young are also protected under California Fish and Game Code (§3503, §3503.5, §3513, and §3800). Finally, pursuant to CEQA, this hawk would be considered "rare" and impacts to its nest sites would be regarded as significant. Impacts to foraging habitat can be regarded as significant pursuant to the CEQA based upon guidelines provided by the CDFW for this raptor species.

The Swainson's hawk is a summer resident in most parts of California. In the fall months, most Swainson's hawks migrate to South America before returning to the United States to breed once again in the late spring. There is a growing population of Swainson's hawks that remain residents in California year-round.

The nesting population of Swainson's hawks in California was reduced considerably over historical nesting populations when the species was afforded protections pursuant to the CESA in 1984. Since that time, the nesting population of Swainson's hawk has significantly recovered in California, as have other raptor species that were previously protected both as state and federally-listed species. Both the peregrine falcon (*Falco peregrinus* subsp. *anatum*) and the bald eagle (*Haliaeetus leucocephalus*) were similarly listed species under both the CESA and FESA but have both been delisted owing to population recovery. A Swainson's hawk nesting population now occurs in western Contra Costa County where this species was not known to be actively nesting when it was listed under the CESA. Similarly, the great number of eBird records recorded in recent years suggest this hawk's population in California has greatly recovered since it was originally listed. Regardless, owing to the absence of a thorough nesting population census in California since near the time that the species was originally listed by the CDFW, the extent of this hawk's statewide recovery remains unknown. Thus, this hawk remains protected pursuant to the CESA.

The Swainson's hawk inhabits open to semi-open areas at low to middle elevations in valleys, dry meadows, foothills, and level uplands (Kochert 1986). It nests almost exclusively in trees and will nest in almost any tree species that is at least 10 feet tall (Schmutz et. al. 1984). Nests are constructed in isolated trees that are dead or alive along drainages and in wetlands, or in windbreaks in fields and around farmsteads (Palmer 1988). Swainson's hawks occasionally nest in shrubs, on telephone poles, and on the ground. In the Central Valley of California, the majority of Swainson's hawk nests and territories are associated with riparian systems and nests are commonly found in cottonwoods and oaks (Schlorff et. al. 1984). They have also been documented nesting in eucalyptus (*Eucalyptus* spp.), black walnut (*Juglans hindsii*), black locust (*Robinia pseudoacacia*), almond, Osage orange (*Maclura pomifera*), Arizona cypress (*Cupressus arizonica*), and pine (*Pinus* spp.) (CNDDB records).

Foraging habitats include alfalfa fields, fallow fields, beet, tomato, and other low-growing row or field crops, dry-land and irrigated pasture, and rice land when not flooded (CDFG 1994). The Swainson's hawk generally forages in open habitats with short vegetation containing small mammals, reptiles, birds, and insects. Its primary prey in the Central Valley is California meadow vole. Agricultural areas are often preferred over more natural grassland habitats due to larger prey populations. In addition, agricultural practices (planting, maintenance, harvesting, disking) allow for access to prey, and very likely increases foraging success of Swainson's

hawks when farm equipment flushes prey during harvesting (observed many times by G. Monk). During the nesting season, Swainson's hawks usually forage within two miles of their nests. Swainson's hawk does not require habitats that contain many perches because it most often searches for prey aerially; therefore, it can occupy habitats with few or no perches except the nest tree (James 1992).

There are two CNDDB nesting records for this species located 0.9-mile east of the project site and approximately 1 mile east of the project site (Figure 4B). There is extensive industrial development between the nesting records and the project site. The only trees of a stature that could support a Swainson's hawk nest in the area of the project site are the live oaks at the west end of the project site. There are no old raptor stick nests in these trees. M&A believe it most unlikely that this hawk species would nest in these trees owing to 1) the extent of continual disturbance associated with this industrial site up to and including under the oaks that persist on this site; 2) the absence of hunting habitat adjacent to the project site. Almost all surrounding uses around the project site are industrial with the exception of vineyards south of the railroad corridor. Vines are held up via guide wires which are typically lethal to raptors that are known to break wings on vineyard support cabling. Thus, typically, most raptors will not hunt in vineyards even when other agricultural croplands can be used by raptors.

On November 1, 1994 The California Department of Fish and Game (now CDFW) prepared a guidance document for mitigating impacts to Swainson's hawk foraging habitat mitigation prescriptions for impacts to Swainson's hawk foraging habitat titled: *Staff report regarding Mitigation for Impacts to Swainson's Hawks (Buteo swainsonii) in the Central Valley of California*. The CDFW often comments on circulated CEQA review documents stating that mitigation for loss of Swainson's hawk foraging habitat should be required by CEQA agencies for proposed projects that are closer than 10 miles to an active Swainson's hawk nest site to account for the loss of foraging habitat. These mitigation guidelines are not relevant to the proposed project. This staff report was prepared 26 years ago and at a time when the Swainson's hawk nesting records were limited to a few nests known in the area of Davis, California and to a few nesting records in northeastern California on the Modoc Plateau.

There has been a widespread Swainson's hawk nesting recovery that is documented in the CNDDB and otherwise; however, this recovery has yet to be incorporated into a current review of the Swainson's hawk status in California, nor has CDFW's mitigation policy been revised since this hawk was originally listed under the CESA in 1984 (36 years ago). Accordingly, the 1994 *Staff report regarding Mitigation for Impacts to Swainson's hawks (Buteo swainsonii) in the Central Valley of California*, besides being geographically inappropriate for a proposed project in Contra Costa County (which is not in the Central Valley of California), also disregards current nest territory expansions of the Swainson's hawk population into east Contra Costa County and elsewhere in the state.

The project site is an industrial site that has been used for decades. It is developed or hard-packed graveled parking storage area that provides no foraging or nesting opportunities for Swainson's hawks. CDFW's Central Valley Swainson's hawk mitigation guideline has no relevance to the proposed project. *The project will not result in potentially significant impacts to the Swainson's hawk.* As such, no mitigation is warranted for this species.

Regardless, out of an abidance of caution, nesting bird surveys shall be conducted at least two weeks to confirm absence of active nesting birds on or within a zone of influence of the project site prior to construction. If any nesting birds are found non-disturbance buffers will be established to protect the nesting birds while nesting. Please see Impacts and Mitigation Sections below for how the project will address potential impacts to nesting birds. Because the site does not provide foraging habitat and is an is actively used industrial site, *impacts to Swainson's hawks are regarded as less than significant pursuant to the CEQA.*

6.3.3 WESTERN RED BAT (*LASIURUS BLOSSEVILLII*)

The western red bat is a California species of special concern (Pierson 2006). It has no federal status. This bat roosts primarily in trees, 2 to 40 feet above the ground, from sea level to approximately 7,000 feet in elevation. It prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.

The closest CNDDB record for this species has an unknown exact location. It is noted that on June 24, 1998, in the city of Antioch, California, western red bats were observed somewhere in the city (CNDDB Occurrence No. 66). This is the only occurrence of this species in all of Contra Costa County.

The only potential bat roosting habitat on the project site are the coast live oak trees on the western portion of the project site. A focused survey for bat roosts and maternity sites should be conducted prior to any project site tree removal or disturbance. This would prevent potential impacts to roosting bats.

7. REGULATORY FRAMEWORK FOR NATIVE WILDLIFE, FISH, AND PLANTS

This section provides a discussion of those laws and regulations that are in place to protect native wildlife, fish, and plants. Under each law we discuss their pertinence to the proposed development.

7.1 Federal Endangered Species Act

The FESA forms the basis for the federal protection of threatened or endangered plants, insects, fish and wildlife. FESA contains four main elements, they are as follows:

Section 4 (16 USCA §1533): Species listing, Critical Habitat Designation, and Recovery Planning: outlines the procedure for listing endangered plants and wildlife.

Section 7 (§1536): Federal Consultation Requirement: imposes limits on the actions of federal agencies that might impact listed species.

Section 9 (§1538): Prohibition on Take: prohibits the "taking" of a listed species by anyone, including private individuals, and State and local agencies.

Section 10: Exceptions to the Take Prohibition: non-federal agencies can obtain an incidental take permit through approval of an HCP.

In the case of saltwater fish and other marine organisms, the requirements of FESA are administered by the NMFS^. The USFWS enforces all other cases. Below, Sections 9, 7, and 10 of FESA are discussed since they are the sections most relevant to the proposed project.

Section 9 of FESA as amended, prohibits the "take" of any fish or wildlife species listed under FESA as endangered. Under federal regulation, "take" of fish or wildlife species listed as threatened is also prohibited unless otherwise specifically authorized by regulation. "Take," as defined by FESA, means "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." "Harm" includes not only the direct taking of a species itself, but the destruction or modification of the species' habitat resulting in the potential injury of the species. As such, "harm" is further defined to mean "an act which actually kills or injures wildlife; such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering" (50 CFR 17.3). A December 2001 decision by the 9th Circuit Court of Appeals (Arizona Cattle Growers' Association, Jeff Menges, vs. the U.S. Fish and Wildlife Service and Bureau of Land Management, and the Southwest Center for Biological Diversity) ruled that the USFWS must show that a threatened or endangered species is present on a project site and that it would be taken by the project activities. According to this ruling, the USFWS can no longer require mitigation based on the probability that the species could use the site; rather, they must show that it is actually present.

Section 9 applies to any person, corporation, federal agency, or any local or State agency. If "take" of a listed species is necessary to complete an otherwise lawful activity, this triggers the need to obtain an "incidental take permit" either through a Section 7 Consultation as discussed further below (for federal actions or private actions that are permitted or funded by a federal agency such as the Corps), or through Section 10 of FESA which requires preparation of a HCP (for state and local agencies, or individuals, and projects without a federal "nexus"; for example, projects that do not need a Corps permit).

Section 7(a)(2) of the Act requires that each federal agency consult with the USFWS to ensure that any action authorized, funded or carried out by such agency is not likely to jeopardize the continued existence of an endangered or threatened species or result in the destruction or adverse modification of critical habitat for listed species. Critical habitat designations mean: (1) specific areas within a geographic region currently occupied by a listed species, on which are found those physical or biological features that are essential to the conservation of a listed species and that may require special management considerations or protection; and (2) specific areas outside the geographical area occupied by a listed species that are determined essential for the conservation of the species.

The Section 7 consultation process only applies to actions taken by federal agencies that are considering authorizing discretionary projects. Section 7 is by and between the NMFS and/or the USFWS and the federal agency contemplating a discretionary approval (that is, the "federal nexus agency," for example, the Corps or the Federal Highway Administration). Private parties, cities, counties, etc. (i.e., applicants) may participate in the Section 7 consultation at the discretion of the federal agencies conducting the Section 7 consultation. The Section 7

consultation process is triggered by a determination of the "action agency" – that is, the federal agency that is carrying out, funding, or approving a project - that the project "may affect" a listed species or critical habitat. If an action is likely to adversely affect a listed species or designated critical habitat, formal consultation between the nexus agency and the USFWS/NMFS is required. As part of the formal consultation, the USFWS/NMFS may resolve any issues informally with the nexus agency or may prepare a formal Biological Opinion assessing whether the proposed action would be likely to result in "jeopardy" to a listed species or if it could adversely modify designated critical habitat. If the USFWS/NMFS prepares a Biological Opinion, it will contain either a "jeopardy" or "non-jeopardy" decision. If the USFWS/NMFS concludes that a proposed project would result in adverse modification of critical habitat or would jeopardize the continued existence of a federally-listed species (that is, it will issue a jeopardy decision), the nexus federal agency would be most unlikely to authorize its discretionary permit. If the USFWS/NMFS prepares a "non-jeopardy" Biological Opinion, the nexus federal agency may authorize the discretionary permit making all conditions of the Biological Opinion conditions of its discretionary permit. A non-jeopardy Biological Opinion constitutes an "incidental take" permit that allows applicants to "take" federally-listed species while otherwise carrying out legally sanctioned projects.

For non-federal entities, for example private parties, cities, counties that are considering a discretionary permit, Section 10 provides the mechanism for obtaining take authorization. Under Section 10 of FESA, for the applicant to obtain an "incidental take permit," the applicant is required to submit a "conservation plan" to the USFWS or NMFS that specifies the impacts that are likely to result to federally-listed species, and the measures the applicant will undertake to minimize and mitigate such impacts, and the funding that will be available to implement those steps. Conservation plans under FESA have come to be known as "habitat conservation plans" or "HCPs" for short. The terms incidental take permit, Section 10 permit, and Section 10(a)(1)(B) permit are used interchangeably by the USFWS. Section 10(a)(2)(B) of FESA provides statutory criteria that must be satisfied before an incidental take permit can be issued.

7.1.1 RESPONSIBLE AGENCY

FESA gives regulatory authority to the USFWS for federally-listed terrestrial species and non-anadromous fish. The NMFS has regulatory authority over federally-listed marine mammals and anadromous fish.

7.1.2 APPLICABILITY TO THE PROPOSED PROJECT

The project site is a highly disturbed parcel that does not support any natural or naturalized habitats that could support federally-listed plants, fish, or wildlife species. Thus, M&A does not believe the project would impact federally-listed species protected pursuant to the FESA. As such, no FESA incidental take permit is required for the project. Finally, no mitigation measures are warranted potential impacts to federally-listed species.

7.2 Federal Migratory Bird Treaty Act

The Migratory Bird Treaty Act of 1918 (16 U.S.C. §§ 703-712, July 3, 1918, as amended 1936, 1960, 1968, 1969, 1974, 1978, 1986 and 1989) makes it unlawful to "take" (kill, harm, harass, shoot, etc.) any migratory bird listed in Title 50 of the Code of Federal Regulations, Section

10.13, including their nests, eggs, or young. Migratory birds include geese, ducks, shorebirds, raptors, songbirds, wading birds, seabirds, and passerine birds (such as warblers, flycatchers, swallows, etc.). In a December 22, 2017 Memorandum issued by the U.S. Department of the Interior's Office of the Solicitor, the Department of Interior expressed the view that the Migratory Bird Treaty Act's take prohibitions apply only to "direct and affirmative purposeful actions that reduce migratory birds, their eggs, or their nests, by killing or capturing, to human control."

7.2.1 Applicability to Proposed Project

Prior to development of the project site, preconstruction surveys would have to be conducted for nesting birds to ensure that there is no direct take of these birds, including their eggs or young. As long as there is no direct mortality to species protected pursuant to this Act caused by development of the project site, there should be no constraints. While adult birds can typically fly out of harm's way, nesting birds, their eggs, and young are more prone to being impacted by construction projects.

To comply with the Migratory Bird Treaty Act, all active nest sites would have to be avoided while birds were nesting. If nesting birds are found, provided it is not a golden eagle nest (not likely possible), the protective buffer could be removed, and development of the project site could commence as otherwise planned. M&A believes there is a moderate chance for a bird nest in the oak trees on the project site. Provided you start construction before February 1 or after August 31, there would be no requirements for nesting birds.

7.3 California Endangered Species Act

In 1984, the state legislated the CESA (Fish and Game Code §2050). The basic policy of CESA is to conserve and enhance endangered species and their habitats. Because CESA does not have a provision for "harm" (see discussion of FESA, above), CDFW considerations pursuant to CESA are limited to those actions that would result in the direct take of a listed species.

If proposed projects would result in take of a state-listed species, a project applicant may secure an "incidental take" permit pursuant to §2081 of the Fish and Game Code CDFW will issue an incidental take permit only if:

1) The authorized take is incidental to an otherwise lawful activity;

2) the impacts of the authorized take are minimized and fully mitigated;

3) measures required to minimize and fully mitigate the impacts of the authorized take:
   a) are roughly proportional in extent to the impact of the taking on the species;
   b) maintain the project applicant's objectives to the greatest extent possible; and,
   c) capable of successful implementation; and,

4) adequate funding is provided to implement the required minimization and mitigation measures and to monitor compliance with, and the effectiveness of, the measures.

If an applicant is preparing an HCP as part of the federal 10(a) permit process, the HCP might be incorporated into the §2081 permit if it meets the substantive criteria of §2081(b). To ensure that an HCP meets the mitigation and monitoring standards in Section 2081(b), an applicant should involve CDFW staff in development of the HCP. If a final Biological Opinion (federal action) has been issued for the project pursuant to Section 7 of the FESA, it might also be incorporated into the §2081 permit if it meets the standards of §2081(b).

No §2081 permit may authorize the take of a species for which the Legislature has imposed strict prohibitions on all forms of "take." These species are listed in several statutes that identify "fully protected" species and "specified birds." See Fish and Game Code §§ 3505, 3511, 4700, 5050, 5515, and 5517. If a project is planned in an area where a "fully protected" species or a "specified bird" occurs, an applicant must design the project to avoid all take.

Fish and Game Code §2081 allows an applicant who has obtained a "non-jeopardy" federal Biological Opinion pursuant to Section 7 of the FESA, or who has received a federal 10(a) permit (federal incidental take permit) pursuant to the FESA, to submit the federal opinion or permit to CDFW for a determination as to whether the federal document is "consistent" with CESA. If after 30 days CDFW determines that the federal incidental take permit is consistent with state law, and that all state-listed species under consideration have been considered in the federal Biological Opinion, then no further permit or consultation is required under CESA for the project. However, if CDFW determines that the federal opinion or permit is not consistent with CESA, or that there are state-listed species that were not considered in the federal Biological Opinion, then the applicant must apply for a state CESA permit under Section 2081(b). Section 2081(b) is of no use if an affected species is state-listed, but not federally-listed.

7.3.1 Applicability to Proposed Project

No state-listed plant or animal species protected pursuant to the CESA would likely be impacted by the proposed project (Tables 3 and 4 respectively). The project site does not provide fisheries habitat; hence, no impacts to state-listed fish would occur from project implementation. No suitable habitat for state-listed plant species occurs on the project site; consequently, no state-listed plant species would likely be impacted by proposed development of the project site (Table 3). Similarly, no state listed animal species will be impacted by the proposed project. As such, a CESA 2081(a) Incidental Take Permit is not warranted for the proposed project.

7.4 California Fish and Game Code § 3503, 3503.5, 3511, and 3513

California Fish and Game Code §3503, 3503.5, 3511, and 3513 prohibit the "take, possession, or destruction of birds, their nests or eggs." Disturbance that causes nest abandonment and/or loss of reproductive effort (killing or abandonment of eggs or young) is considered "take." Such a take would also violate federal law protecting migratory birds (Migratory Bird Treaty Act).

All raptors (that is, hawks, eagles, owls) their nests, eggs, and young are protected under California Fish and Game Code (§3503.5). Additionally, "fully protected" birds, such as the

white-tailed kite and golden eagle, are protected under California Fish and Game Code (§3511). "Fully protected" birds may not be taken or possessed (that is, kept in captivity) at any time.

7.4.1 APPLICABILITY TO THE PROPOSED PROJECT

Please review Section 7.2.1 above as the same discussion applies to this discussion. Raptors that are known to nest in the region of the project site include white-tailed kite, barn owl (*Tyto alba*), red-tailed hawk, and red-shouldered hawk, among others. They are not expected to nest on or within a zone of influence of the project site. While small common birds could possibly nest in the few live oaks on the project site, raptors including fully protected species would be most unlikely to nest on the project site.

Preconstruction nesting surveys will be conducted for nesting birds to ensure that there is no direct take of these birds, including their eggs or young, during development of the project site. Any active nests that are found during preconstruction surveys would have to be avoided by the proposed project. Suitable non-disturbance buffers would be established around nest sites until the nesting cycle is complete. Once complete there would be no further impediments to development. The size of the non-disturbance buffer would have to be determined by a qualified biologist. Please review the Impacts and Mitigation Section below for more details on how the project will avoid impacts to nesting birds.

7.5 City of Antioch General Plan Biological Resources Policies

The City of Antioch General Plan Biological Resources Policies:

a. Comply with the Federal policy of no net loss of wetlands through avoidance and clustered development. Where preservation in place is found not to be feasible (such as where a road crossing cannot be avoided, or where shore stabilization or creation of shoreline trails must encroach into riparian habitats), require 1) on-site replacement of wetland areas, 2) off-site replacement, or 3) minimum ratio of one acre of replacement/restoration for each acre of impacted onsite habitat, such that the value of impacted habitat is replaced.

b. Preserve in place and restore existing wetlands and riparian resources along the San Joaquin River and other natural streams in the Planning Area, except where a need for structural flood protection is unavoidable.

c. Require appropriate setbacks adjacent to natural streams to provide adequate buffer areas ensuring the protection of biological resources, including sensitive natural habitat, special-status species habitats and water quality protection.

d. Through the project approval and environmental review processes, require new development projects to protect sensitive habitat areas, including, but not limited to, oak woodlands, riparian woodland, vernal pools, and *native* grasslands. Ensure the preservation in place of habitat areas found to be occupied by state and federally-protected species.

> If impacts to sensitive habitat areas are unavoidable, appropriate compensatory mitigation shall be required off-site within eastern Contra Costa County. Such compensatory

> mitigation shall be implemented through the provisions of a Resource Management Plan ("RMP") as described in Policy 10.3.2.e, except where, in the discretion of the Community Development Director, an RMP is not necessary or appropriate due to certain characteristics of the site and the project. Among the factors that are relevant to determining whether an RMP is necessary or appropriate for a given project are the size of the project and the project site, the location of the project (e.g., proximity to existing urban development or open space), the number and sensitivity of biological resources and habitats on the project site, and the nature of the project (e.g., density and intensity of development).
>
> Where preserved habitat areas occupy areas that would otherwise be graded as part of a development project facilitate the transfer of allowable density to other, non-sensitive portions of the site.

e. Limit uses within preserve and wilderness areas to resource-dependent activities and other uses compatible with the protection of natural habitats (e.g., passive recreation and public trails).

f. Through the project review process, review, permit the removal of healthy, mature oak trees on a case-by-case basis only where it is necessary to do so.

g. Preserve heritage trees throughout the Planning Area.

h. Within areas adjacent to preserve habitats, require the incorporation of native vegetation and avoid the introduction of invasive species in the landscape plans for new development.

i. Design drainage within urban areas so as to avoid creating perennial flows within intermittent streams to prevent fish and bullfrogs from becoming established within a currently intermittent stream.

j. Whenever a biological resources survey is undertaken to determine the presence or absence of a threatened or endangered species, or of a species of special concern identified by the U.S. Fish and Wildlife Service or the California Department of Fish and Wildlife, require the survey to follow established protocols for the species in question prior to any final determination that the species is absent from the site.

7.5.1 APPLICABILITY TO THE PROPOSED PROJECT

The project site is an industrial site that has been used for decades. It does not support sensitive habitats. No sensitive rare plants or animals would be found on the project site. The few coast live oaks that occur at the west end of the project site are further discussed in the next section.

7.6 City of Antioch Tree Ordinance

There are six categories of "trees" defined in the City of Antioch's Tree Ordinance.

ESTABLISHED TREE. This shall be any tree which is at least 10 inches in diameter, as measured four and one half feet above natural or finished grade.

INDIGENOUS TREE. This shall be a naturally growing tree of the following species:

- Blue Oak (*Quercus douglasii*)
- Valley Oak (*Quercus lobata*)
- Coast Live Oak (*Quercus agrifolia*)
- Canyon Live Oak (*Quercus chrysolepis*)
- Interior Live Oak (*Quercus wislizenii*)
- California Buckeye (*Aesculus californica*)
- California Bay (*Umbellularia californica*)

LANDMARK TREE. This shall be any tree which is at least 48 inches in diameter and/or in excess of 40 feet in height.

MATURE TREE. This shall be any tree which is at least 26 inches in diameter, as measured four and one-half feet above natural grade.

PROTECTED TREE. This shall be defined as any of the following:

(a) Any tree required to be preserved as a condition of an approval from a "regular development application" as defined by this section, and/or any tree that is shown to be preserved on an approved development plan as submitted by the applicant and subsequently approved by the city.
(b) All established indigenous trees as defined by this section.
(c) All street trees as defined by this section.
(d) All mature and landmark trees as defined by this section.

STREET TREE. This shall be any tree planted within either the public right-of-way and/or tree planting easement, where applicable.

Approval is required to remove any trees within the City of Antioch, as detailed below:

(A) Permit or development application. Except as provided below, it is unlawful to destroy or remove any established tree on any property within the city without either:

(1) Obtaining a tree removal permit from the Department of Parks, Leisure and Community Services; or

(2) Receiving approval to remove such trees as part of the regular development application process.

(B) Penalty. A person who either removes or destroys an established tree prior to obtaining the required permits and/or approvals, or deliberately damages an established tree so that its removal is then necessitated for public safety, is subject to the penalties of this chapter and code.

(C) Exceptions. The following trees may be removed without either a tree removal permit and/or regular development application:

(1) If the condition of any tree presents an immediate hazard to life and/or property its removal may be authorized by the City Engineer.

(2) Other than for protected trees as defined by this article, trees on developed residential properties may be removed without a permit.

7.6.1 APPLICABILITY TO THE PROPOSED PROJECT

There are nine coast live oaks on the west end of the project site all that exceed 10 inches DBH, all that are regarded as "established indigenous trees." As such, approval is required to remove any of these trees from the City of Antioch. A permit to remove any of these trees may be granted as part of the regular development application process.

8. REGULATORY REQUIREMENTS PERTAINING TO WATERS OF THE UNITED STATES AND STATE

This section presents an overview of the criteria used by the Corps, the RWQCB, the State Water Resources Control Board (SWRCB), and the CDFW to determine those areas within a project area that would be subject to their regulation.

8.1 U.S. Army Corps of Engineers Jurisdiction and Permitting

8.1.1 SECTION 404 OF THE CLEAN WATER ACT

Congress enacted the Clean Water Act (CWA) "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters" (33 U.S.C. §1251(a)). Pursuant to Section 404 of the CWA (33 U.S.C. 1344), the Corps regulates the disposal of dredged or fill material into "waters of the United States" (33 CFR Parts 328 through 330). This requires project applicants to obtain authorization from the Corps prior to discharging dredged or fill materials into any water of the United States.

In the Federal Register "waters of the United States" are defined as, "...all interstate waters including interstate wetlands...intrastate lakes, rivers, streams (including intermittent streams), wetlands, [and] natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce..." (33 CFR Section 328.3).

Limits of Corps' jurisdiction:

(a) Territorial Seas. The limit of jurisdiction in the territorial seas is measured from the baseline in a seaward direction a distance of three nautical miles. (See 33 CFR 329.12)

(b) Tidal Waters of the United States. The landward limits of jurisdiction in tidal waters:

(1) Extends to the high tide line, or

(2) When adjacent non-tidal waters of the United States are present, the jurisdiction extends to the limits identified in paragraph (c) of this section.

(c) Non-Tidal Waters of the United States. The limits of jurisdiction in non-tidal waters:
(1) In the absence of adjacent wetlands, the jurisdiction extends to the ordinary high water mark, or
(2) When adjacent wetlands are present, the jurisdiction extends beyond the ordinary high water mark to the limit of the adjacent wetlands.
(3) When the water of the United States consists only of wetlands the jurisdiction extends to the limit of the wetland.

Section 404 jurisdiction in "other waters" such as lakes, ponds, and streams, extends to the upward limit of the OHWM or the upward extent of any adjacent wetland. The OHWM on a non-tidal water is:

- the "line on shore established by the fluctuations of water and indicated by physical characteristics such as a clear natural line impressed on the bank; shelving; changes in the character of soil; destruction of terrestrial vegetation; the presence of litter or debris; or other appropriate means that consider the characteristics of the surrounding areas" (33 CFR Section 328.3[e]).

Wetlands are defined as: "...those areas that are inundated or saturated by surface or ground water at a frequency and duration to support a prevalence of vegetation adapted for life in saturated soil conditions" (33 CFR Section 328.8 [b]). Wetlands usually must possess hydrophytic vegetation (i.e., plants adapted to inundated or saturated conditions), wetland hydrology (e.g., topographic low areas, exposed water tables, stream channels), and hydric soils (i.e., soils that are periodically or permanently saturated, inundated or flooded) to be regulated by the Corps pursuant to Section 404 of the CWA.

8.1.2 Applicability to the Proposed Project

M&A routinely submits jurisdictional mapping requests to the Corps obtaining formal confirmation from this agency of the extent and type of jurisdictional features that may be on a project site. Typically, a formal jurisdictional map application is submitted to the Corps when there is an expectation that a proposed project may impact Clean Water Act regulated waters of the U.S. (which include tidal waters, wetlands, and other waters). There are no likely waters of the U.S. on the project site. As such a Clean Water Act permit is not required from the Corps for the development of this project site.

There is a shallow roadside drainage way that runs east to west just north of the project along Wilbur Avenue that could be impacted by the possible mandated improvements to Wilbur Avenue. This shallow drainage feature is discontinuous and was constructed in uplands to convey stormwater run-off from adjacent uplands and the impervious surfaces of Wilbur Avenue. This only has water in it immediately after significant storm events before discharging into the City stormdrain. This ephemeral ditch drains uplands and does not support wetland vegetation or hydric soils. As such, this ditch would not be regulated as a "water of the U.S."

pursuant to Section 404 of the CWA. No permit should be required if the roadside drainage way must be impacted from required road improvements.

8.2 California Regional Water Quality Control Board (RWQCB)

8.2.1 Section 401 of the Clean Water Act

The SWRCB and RWQCB regulate activities in "waters of the State" (which includes wetlands) through Section 401 of the CWA. While the Corps administers a permitting program that authorizes impacts to waters of the United States, including wetlands and other waters, any Corps permit authorized for a proposed project would be inoperative unless it is a NWP that has been certified for use in California by the SWRCB, or if the RWQCB has issued a project specific certification of water quality. Certification of NWPs requires a finding by the SWRCB that the activities permitted by the NWP will not violate water quality standards individually or cumulatively over the term of the permit (the term is typically for five years). Certification must be consistent with the requirements of the federal CWA, the CEQA, the CESA, and the SWRCB's mandate to protect beneficial uses of waters of the State. Any denied (i.e., not certified) NWPs, and all Individual Corps permits, would require a project specific RWQCB certification of water quality.

8.2.2 Applicability to the Proposed Project

There are no Clean Water Act RWQCB jurisdictional features on the project site. Similarly, there are no waters of the State on the project site that would be regarded as outside of the Corps jurisdiction. The off-site roadside drainage could be impacted by any required improvements to Wilbur Avenue. If the road widening is ultimately mandated by the City as a part of this proposed project, M&A would further assess off-site roadside impacts in order to account for changes to the Clean Water Act to-be-implemented in May 2020.

9. STATE WATER RESOURCES CONTROL BOARD (SWRCB)/RWQCB – STORM WATER MANAGEMENT

9.1 Construction General Permit

While federal CWA NPDES regulations allow two permitting options for construction related stormwater discharges (individual permits and General Permits), the SWRCB has elected to adopt only one statewide Construction General Permit at this time that will apply to all stormwater discharges associated with construction activity, except from those on Tribal Lands, in the Lake Tahoe Hydrologic Unit, and those performed by the California Department of Transportation (CalTrans).

The Construction General Permit requires all dischargers where construction activity disturbs greater than one acre of land or those sites less than one acre that are part of a common plan of development or sale that disturbs more than one acre of land surface to:

1. Develop and implement a SWPPP which specifies BMPs that will prevent all construction pollutants from contacting stormwater with the intent of keeping all products of erosion from moving off site into receiving waters.

2. Eliminate or reduce non-stormwater discharges to storm sewer systems and other waters of the nation. Achieve quantitatively-defined (i.e., numeric) pollutant-specific discharge standards, and conduct much more rigorous monitoring based on the project's projected risk level.

3. Perform inspections of all BMPs.

This Construction General Permit is implemented and enforced by the nine RWQCBs. It is also enforceable through citizens' suits and represents a dramatic shift in the SWRCB's approach to regulating new and redevelopment sites, imposing new affirmative duties and fixed standards on builders and developers.

Types of Construction Activity Covered by the Construction General Permit

- clearing,
- grading,
- disturbances to the ground such as stockpiling, or excavation that results in soil disturbances of at least one acre or more of total land area.

Construction activity that results in soil disturbances to a smaller area would still be subject to this General Permit if the construction activity is part of a larger common plan of development that encompasses greater than one acre of soil disturbance, or if there is significant water quality impairment resulting from the activity.

Construction activity does not include:

- routine maintenance to maintain original line and grade,
- hydraulic capacity, or original purpose of the facility,
- nor does it include emergency construction activities required to protect public health and safety.

The Construction General Permit includes several "post-construction" requirements. These requirements entail that site designs provide no net increase in overall site runoff and match pre-project hydrology by maintaining runoff volume and drainage concentrations. To achieve the required results where impervious surfaces such as roofs and paved surfaces are being increased, developers must implement non-structural off-setting BMPs, such as landform grading, site design BMPs, and distributed structural BMPs (bioretention cells, rain gardens, and rain cisterns). This "runoff reduction" approach is essentially a State Water Board-imposed regulatory requirement to implement Low Impact Development ("LID") design features. Volume that cannot be addressed using non-structural BMPs must be captured in structural BMPs that are approved by the RWQCB.

Improving the quality of site runoff is necessary to improve water quality in impaired and threatened streams, rivers, and lakes (that is, water bodies on the EPA's 303(d) list). The RWQCB prioritizes the water bodies on the 303(d) list according to potential impacts to beneficial uses. Beneficial uses can include a wide range of uses, such as nautical navigation; wildlife habitat; fish spawning and migration; commercial fishing, including shellfish harvesting;

recreation, including swimming, surfing, fishing, boating, beachcombing, and more; water supply for domestic consumption or industrial processes; and groundwater recharge, among other uses. The State is required to develop action plans and establish Total Maximum Daily Loads (TMDLs) to improve water quality within these impaired water bodies. The TMDL is the quantity of a pollutant that can be safely assimilated by a water body without violating the applicable water quality standards.

Pursuant to the CWA, the RWQCB regulates construction discharges under the NPDES. The project sponsor of construction or other activities that disturb more than 1 acre of land must obtain coverage under NPDES Construction General Permit Order 2009-0009-DWQ, administered by the RWQCB[1].

9.1.1 APPLICABILITY TO THE PROPOSED PROJECT

Since the project will impact greater than one acre of land, it must obtain coverage under the General Construction Permit. To obtain coverage under the SWRCB administered Construction General Permit, the project proponent (typically through its civil engineer) must electronically file a number of permit-related compliance documents (Permit Registration Documents (PRDs), including a Notice of Intent (NOI), a risk assessment, site map, signed certification, SWPPP, Notice of Termination (NOT), NAL exceedance reports, and other site-specific PRDs that may be required. The PRDs must be prepared by a Qualified SWPPP Practitioner (QSP) or Qualified SWPPP Developer (QSD) and filed by a Legally Responsible Person (LRP) on the RWQCB's Stormwater Multi-Application Report Tracking System (SMARTS). (QSDs are typically civil engineers, professional hydrologists, engineering geologists, or landscape architects.) Once filed, these documents become immediately available to the public for review and comment. At a minimum, the SWPPP shall identify BMPs for implementation during project construction that are in accordance with the applicable guidance and procedures contained in the California Stormwater Quality Association's *California Stormwater Best Management Practices Handbook* (2015).

9.2 RWQCB Municipal Storm Water Permitting Programs

The federal CWA was amended in 1987 to address urban stormwater runoff pollution of the nation's waters. In 1990, the EPA promulgated rules establishing Phase 1 of the NPDES stormwater program. The Phase 1 program for Municipal Separate Storm Sewer System (MS4s) requires operators that serve populations of 100,000 or greater to implement a stormwater management program to control polluted discharges from these MS4s. While Phase 1 of the municipal stormwater program has focused on large urban areas, Phase 2 of the municipal stormwater program was promulgated by the EPA for smaller urban areas including non-traditional Small MS4s, which are governmental facilities such as military bases, public campuses, and prison and hospital complexes.

[1] CGP Order 2009-0009-DWQ remains in effect, but has been amended by CGP Order 2009-0014-DWQ, effective February 14, 2011, and CGP Order 2009-0016-DWQ, effective July 17, 2012. The first amendment merely provided additional clarification to Order 2009-0009-DWQ, while Order 2009-0016-DWQ eliminated numeric effluent limits on pH and turbidity (except in the case of active treatment systems), in response to a legal challenge to the original order.

MS4 permits require the discharger (or dischargers that are permitted by the MS4 permittees) to develop and implement a Storm Water Management Plan (SWMP) with the goal of reducing the discharge of pollutants to the maximum extent practicable (MEP). MEP is the performance standard specified in Section 402(p) of the CWA. The management programs specify what BMPs will be used to address certain program areas. The program areas include public education and outreach; illicit discharge detection and elimination; construction and post-construction; and good housekeeping for municipal operations. In general, medium and large municipalities are required to conduct chemical monitoring, though small municipalities are not.

9.2.1 NPDES C.3 REQUIREMENTS

The NPDES C.3 requirements went into effect for any project (public or private) that is "deemed complete" by the City or County (Lead Agency) on or after February 15, 2005, and which will result in the creation or replacement (other than normal maintenance) of at least 10,000 square feet of impervious surface area (roofs, streets, patios, parking lots, etc. Provision C.3 requires the onsite treatment of stormwater prior to its discharge into downstream receiving waters. Note that these requirements are in addition to the existing NPDES requirements for erosion and sedimentation controls during project construction that are typically addressed through acquisition of coverage under the SWRCB administered Construction General Permit. The C.3 requirements are typically required to be implemented by MS4 permittees (and their constituencies).

Projects subject to Provision C3 must include the capture and onsite treatment of all stormwater from the site prior to its discharge, including rainwater falling on building rooftops. Project applicants are required to implement appropriate source control and site design measures and to design and implement stormwater treatment measures in order to reduce the discharge of stormwater pollutants to the *maximum extent practicable.* While the CWA does not define "maximum extent practicable," the Stormwater Quality Management Plans required as a condition of the municipal NPDES permits identify control measures (i.e., BMPs) and, where applicable, performance standards, to establish the level of effort required to satisfy the maximum extent practicable criterion. It is ultimately up to the professional judgment of the reviewing municipal staff in the individual jurisdictions to determine whether a project's proposed stormwater controls will satisfy the maximum extent practicable criterion. However, there are numeric criteria used to ensure that treatment BMPs have been adequately sized to accommodate and treat a site's stormwater. The C3 requirements are quite extensive, and their complete explanation is not provided here. However, the following are minimums that should be understood and adhered to:

- The applicant must provide a detailed and realistic site design *and impervious surface area calculations*. This site design *and calculations* will be used by the Lead Agency (County or City) to determine/*verify* the amount of impervious surface area that is being created or replaced. It should include all proposed buildings, roads, walkways, parking lots, landscape areas, etc., that are being created or redeveloped. If large (greater than 10,000 square feet) lots are being created an effort will need to be made to determine the total impervious surface area that could be created on that parcel. For example, if only a portion of the lot is shown as a "building envelope" then the lead

agency will need to consider that a driveway will have to be constructed to access the envelope and that the envelope will then be developed as shown. If the C.3 thresholds are met (creation/redevelopment of 10,000 square feet of impervious surface area), a Storm Water Control Plan (SWCP) (if required by the Lead Agency, or whatever steps for compliance with Provision C3 are required locally) must accompany the application.

- If a SWCP is required by the Lead Agency for the project it must be stamped by a Licensed Civil Engineer, Architect, or Landscape Architect.

9.2.2 APPLICABILITY TO THE PROPOSED PROJECT

The Cities of Contra Costa County are organized as a collaborative to work on some elements of their stormwater permit compliance. This collaborative program is called the Contra Costa Clean Water Program. Each of the Dischargers is individually responsible for adopting and enforcing ordinances, implementing assigned BMPs to prevent or reduce pollutants in stormwater, and providing funds for capital, operation, and maintenance expenditures necessary to implement such BMPs for the storm drain system that it owns and/or operates.

The City of Antioch will be responsible under it MS4 permit to determine if the proposed project meets NPDES C.3 requirements. If the C.3 thresholds are met (creation/redevelopment of 10,000 square feet of impervious surface area), a SWCP (based on a checklist) is submitted as part of the project approval process.

A SWCP (aka SWMP) shall be prepared by the project civil engineer and will be submitted to the City of Antioch for their review to verify compliance with the City's NPDES MS4 permit requirements. The SWMP will provide an analysis of post-construction stormwater controls incorporating both hydromodification and treatment analyses, and BMPs that will be constructed to reduce stormwater pollution. The BMPs will ensure that the proposed project does not result in degradation of receiving waters and that it otherwise remains in compliance with the City of Antioch's MS4 requirements. The City of Antioch's NPDES compliance manager will review the SWCP to determine if it is sufficient to meet the proposed project's detention, hydromodification, and water quality requirements.

10. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) REGULATIONS

A CEQA lead agency must determine if a proposed activity constitutes a project requiring further review pursuant to the CEQA. Pursuant to CEQA, a lead agency would have to determine if there could be significant adverse impacts to the environment from a proposed project. Typically, if within the city limits, the city would be the CEQA lead agency. If a discretionary permit (i.e., conditional use permit) would be required for a project (e.g. an occupancy permit must be issued), the lead agency typically must determine if there could be significant environmental impacts. This is usually accomplished by an "Initial Study." If there could be significant environmental impacts, the lead agency must determine an appropriate level of environmental review prior to approving and/or otherwise permitting the impacts. In some cases, there are "Categorical Exemptions" that apply to the proposed activity; thus, the activity is exempt from CEQA. The Categorical Exemptions are provided in CEQA. There are also

Statutory Exemptions in CEQA that must be investigated for any proposed project. If the project is not exempt from CEQA, the lowest level of review typically reserved for projects with no significant effects on the environment would be for the lead agency to prepare a "Negative Declaration." If a proposed project would have only minimal impacts that can be mitigated to a level of no significance pursuant to the CEQA, then a "Mitigated Negative Declaration" is typically prepared by the lead agency. Finally, those projects that may have significant effects on the environment, or that have impacts that can't be mitigated to a level considered less than significant pursuant to the CEQA, typically must be reviewed via an Environmental Impact Report (EIR). All CEQA review documents are subject to public circulation, and comment periods.

Section 15380 of CEQA defines "endangered" species as those whose survival and reproduction in the wild are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, disease, or other factors. "Rare" species are defined by CEQA as those who are in such low numbers that they could become endangered if their environment worsens; or the species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range and may be considered "threatened" as that term is used in FESA. The CEQA Guidelines also state that a project will normally have a significant effect on the environment if it will "substantially affect a rare or endangered species of animal or plant or the habitat of the species." The significance of impacts to a species under CEQA, therefore, must be based on analyzing actual rarity and threat of extinction to that species despite its legal status or lack thereof.

10.1.1 Applicability to the Proposed Project

This report has been prepared as a Biology Section that is suitable for incorporation by the CEQA lead agency (in this case City of Antioch) into a CEQA review document such as a Mitigated Negative Declaration or an EIR. This document addresses potential impacts to sensitive biological resources species including to special-status species that would be defined as endangered or rare pursuant to Section 15380 of the CEQA.

11. IMPACTS ANALYSIS

Below the criteria used in assessing impacts to Biological Resources is presented.

11.1 Significance Criteria

A significant impact is determined using CEQA and CEQA Guidelines. Pursuant to CEQA §21068, a significant effect on the environment means a substantial, or potentially substantial, adverse change in the environment. Pursuant to CEQA Guideline §15382, a significant effect on the environment is further defined as a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historical or aesthetic significance. Other Federal, State, and local agencies' considerations and regulations are also used in the evaluation of significance of proposed actions.

Direct and indirect adverse impacts to biological resources are classified as "significant," "potentially significant," or "less than significant." Biological resources are broken down into

four categories: vegetation, wildlife, threatened and endangered species, and regulated "waters of the United States" and/or stream channels.

11.1.1 THRESHOLDS OF SIGNIFICANCE

11.1.1.1 Plants, Wildlife, Waters

In accordance with Appendix G (Environmental Checklist Form) of the CEQA Guidelines, implementing the project would have a significant biological impact if it would:

- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS.

- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or USFWS.

- Have a substantial adverse effect on federally protected "wetlands" as defined by Section 404 of the CWA (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.

- 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 any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

11.1.1.2 Waters of the United States and State.

Pursuant to Section 404 of the CWA (33 U.S.C. 1344), the Corps regulates the discharge of dredged or fill material into waters of the United States, which includes wetlands, as discussed in the bulleted item above, and also includes "other waters" (stream channels, rivers) (33 CFR Parts 328 through 330). Substantial impacts to Corps regulated areas on a project site would be considered a significant adverse impact. Similarly, pursuant to Section 401 of the CWA, and to the Porter-Cologne Water Quality Control Act, the RWQCB regulates impacts to waters of the state. Thus, if there were substantial impacts to RWQCB regulated areas to a project site, there would also be considered a significant adverse impact.

11.1.1.3 Stream Channels

Pursuant to Section 1602 of the California Fish and Game Code, CDFW regulates activities that divert, obstruct, or alter stream flow, or substantially modify the bed, channel, or bank of a stream which CDFW typically considers to include riparian vegetation. Any proposed activity that would result in substantial modifications to a natural stream channel would be considered a significant adverse impact.

12. IMPACT ASSESSMENT AND PROPOSED MITIGATION

In this section we discuss potential impacts to sensitive biological resources including special-status plant species, animal species, and waters of the United States and/or State. We follow each impact with a mitigation prescription that when implemented would reduce impacts to the greatest extent possible.

12.1 Impact BIO-1. Development of The Project Would Have a Potentially Significant Adverse Impact on Nesting Birds (Potentially Significant)

Common bird species, typically those well adapted to man's activities, could nest in the coast live oaks on the project site. Other birds could nest on the ground. Nesting birds are protected under the Migratory Bird Treaty Act (50 CFR 10.13) and their eggs and young are protected under California Fish and Game Code Sections 3503, 3503.5. Any project-related impacts to these species would be considered a significant adverse impact. Potential impacts to these species from the proposed project include disturbance to nesting birds and possibly death of adults and/or young. In the absence of survey results, it must be concluded that impacts to nesting birds from the proposed project would be **potentially significant pursuant to CEQA.** This impact can be mitigated to a level considered less than significant.

12.2 Mitigation Measure BIO-1. Nesting Birds

To avoid impacts to nesting birds, a nesting survey shall be conducted within 15 days of commencing with construction work or tree removal if this work would commence between February 1st and August 31st. The nesting survey should include an examination of the entire project site including existing buildings and all trees onsite and within 200 feet of the project site (i.e., within a zone of influence of nesting birds). The zone of influence includes those areas outside the project site where birds could be disturbed by earth-moving vibrations and/or other construction-related noise.

If birds are identified nesting on or within the zone of influence of the construction project, a qualified biologist shall establish a temporary protective nest buffer around the nest(s). The nest buffer should be staked with orange construction fencing. The buffer must be of sufficient size to protect the nesting site from construction-related disturbance and shall be established by a qualified ornithologist or biologist with extensive experience working with nesting birds near and on construction sites. Typically, adequate nesting buffers are 50 feet from the nest site or nest tree dripline for small birds and up to 300 feet for sensitive nesting birds that include several raptor species known the region of the project site but that are not expected to occur on the project site. Upon completion of nesting surveys, if nesting birds are identified on or within a zone of influence of the project site, a qualified ornithologist/biologist that frequently works with

nesting birds shall prescribe adequate nesting buffers to protect the nesting birds from harm while the project is constructed.

No construction or earth-moving activity shall occur within any established nest protection buffer prior to September 1 unless it is determined by a qualified ornithologist/biologist that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones, or that the nesting cycle is otherwise completed. In the region of the project site, most species complete nesting by mid-July. This date can be significantly earlier or later, and would have to be determined by the qualified biologist. At the end of the nesting cycle, and fledging from the nest by its occupants, as determined by a qualified biologist, temporary nesting buffers may be removed and construction may commence in established nesting buffers without further regard for the nest site. ***Implementation of these mitigation measures would reduce impacts to nesting birds to a level regarded as less than significant pursuant to CEQA.***

12.3 Impact BIO-2. Development of the Project would have a potentially significant impact on protected trees

There are 9 coast live oaks on the west end of the project site, all that exceed 10 inches DBH, all that are regarded as "established indigenous trees." As such, approval is required to remove any of these trees from the City of Antioch. A permit to remove any of these trees may be granted as part of the regular development application process.

Impacts to protected trees would be regarded as potentially significant pursuant to the CEQA. Mitigation could be implemented to reduce these impacts to levels regarded as less than significant pursuant to the CEQA.

12.4 Mitigation Measure BIO-2. Mitigation for potentially significant impact on protected trees

If any trees are slated for removal, the project proponent shall request a tree removal permit as part of the regular development application to the City of Antioch. The following information shall be provided with the regular development application to the City:

(1) A site plan showing the existing topography with location of all established trees, clearly labeling those trees which are proposed for either saving or removal.

(2) A description of all established trees on the property, including the size (in diameter), estimated height, species, and relative condition (i.e., healthy vs. in decline).

(3) A written statement requesting permission to remove the subject tree(s) providing the reason for the request.

Impacts to coast live oaks may be mitigated by planting replacement California native trees that are found in Antioch. Replacement coast live oaks shall be incorporated into site landscaping, shall be box size, and shall be provided with irrigation that is clock-activated. Care should be taken in locating replacement trees so that as they grow, they do not interfere with existing and constructed features on the project site.

Implementation of these measures would reduce potentially significant impacts to City protected trees to a level considered less-than-significant pursuant to the CEQA.

12.5 Impact BIO-3. Bats –Tree Removal and Site Development May Have a Potentially Significant Impact on Western Red Bat (Potentially Significant)

The trees onsite may provide roosting and maternity habitat for the special-status western red bat. This bat species is designated by the State as a "species of special concern." In accordance with the CEQA Guidelines (Section 15380) which protects "rare" and "endangered" species as defined by CEQA (species of special concern meet this CEQA definition), impacts to this bat species would be considered a **potentially significant adverse impact**. Potential impacts to special-status bats from the proposed project include loss of maternity and/or roosting habitat, death of individual adult bats and/or young. This impact could be mitigated to a less than significant level.

12.6 Mitigation Measure BIO-3. Western Red Bat

In order to avoid impacts to roosting western red bats, tree removal or other construction activities should only be conducted during specific seasonal periods of bat activity: between August 31 and October 15, when bats would be able to fly and feed independently, and between March 1 and April 1st to avoid hibernating bats, and prior to the formation of maternity colonies. Then a qualified biologist, one with at least two years of experience surveying for bats, should do preconstruction surveys for roosting bats within 14 days of starting work. If the qualified biologist finds evidence of bat presence during the surveys, then he/she should develop a plan for removal and exclusion, in conjunction with the CDFW.

If tree removal must occur outside of the seasonal activity periods mentioned above (i.e., between October 16 and February 28/29, or between April 2 and August 30), then a qualified biologist, one with at least two years of experience surveying for bats, should do preconstruction surveys within 14 days of starting work. If roosts are found, a determination should be made whether there are young. If a maternity site is found, impacts to the maternity site will be avoided by establishment of a non-disturbance buffer until the young have reached independence. The size of the buffer zone should be determined by the qualified bat biologist at the time of the surveys. If the qualified biologist finds evidence of bat presence during the surveys, then he/she should develop a plan for removal and exclusion, when there are not dependent young present, in conjunction with the CDFW.

This mitigation measure would reduce the project's impact to special-status bats to a level considered less than significant.

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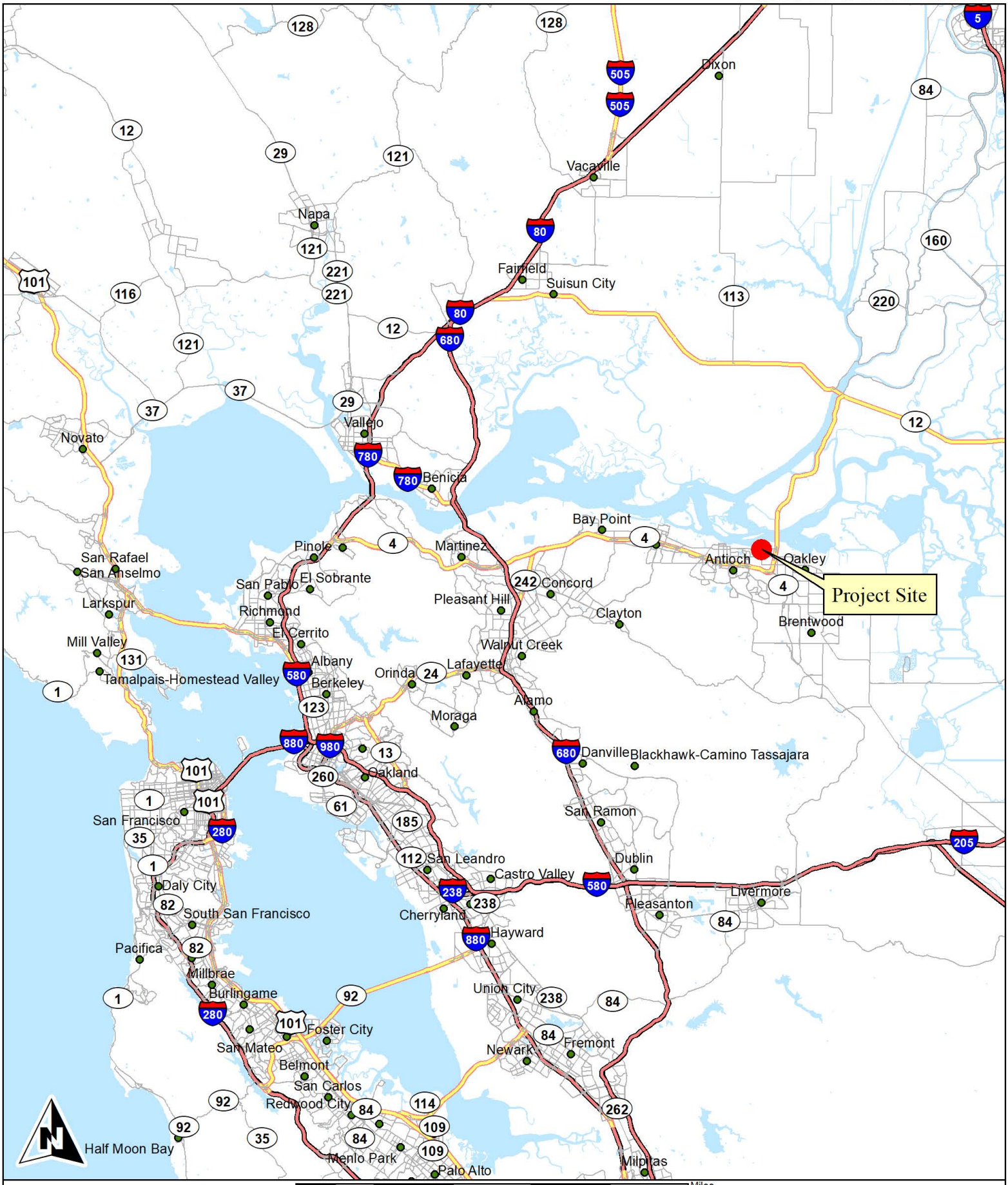

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Figure 1. 2600 Wilbur Avenue Project Site
Regional Map
Antioch, California

County: Contra Costa
Map Preparation Date: December 17, 2019



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Figure 2. 2600 Wilbur Avenue Project Site
Location Map
Antioch, California

38011681 -121.769245
Section: 20 & 21; T2N R2E
7.5-Minute Antioch North quadrangle
Aerial Photograph Source: ESRI
Map Preparation Date: December 17, 2019



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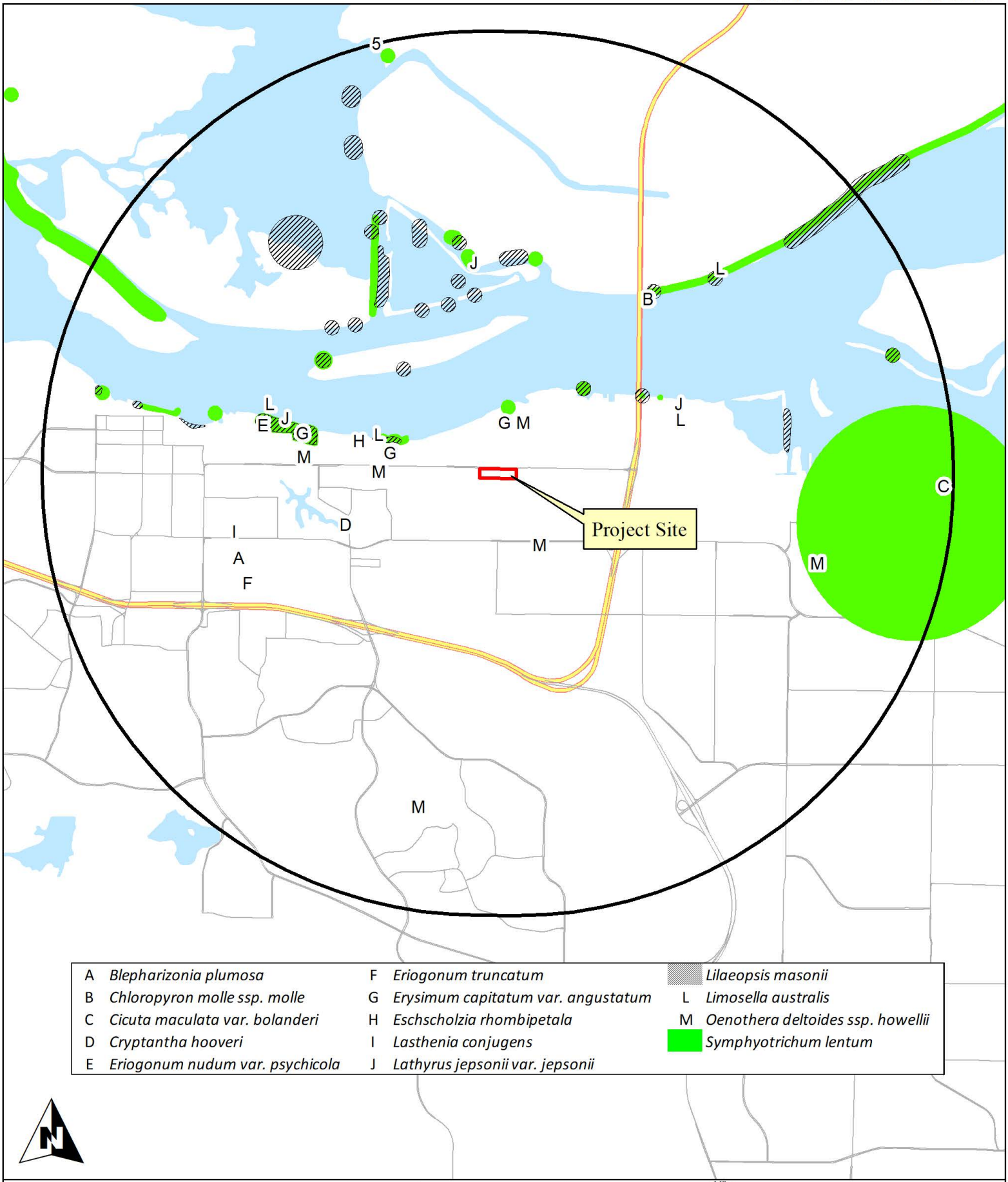
Figure 3. Aerial Photograph of the
2600 Wilbur Avenue Project Site
Antioch, California

Aerial Photograph Source: ESRI
Map Preparation Date: December 17, 2019



A	*Blepharizonia plumosa*	F	*Eriogonum truncatum*		*Lilaeopsis masonii*
B	*Chloropyron molle ssp. molle*	G	*Erysimum capitatum var. angustatum*	L	*Limosella australis*
C	*Cicuta maculata var. bolanderi*	H	*Eschscholzia rhombipetala*	M	*Oenothera deltoides ssp. howellii*
D	*Cryptantha hooveri*	I	*Lasthenia conjugens*		*Symphyotrichum lentum*
E	*Eriogonum nudum var. psychicola*	J	*Lathyrus jepsonii var. jepsonii*		

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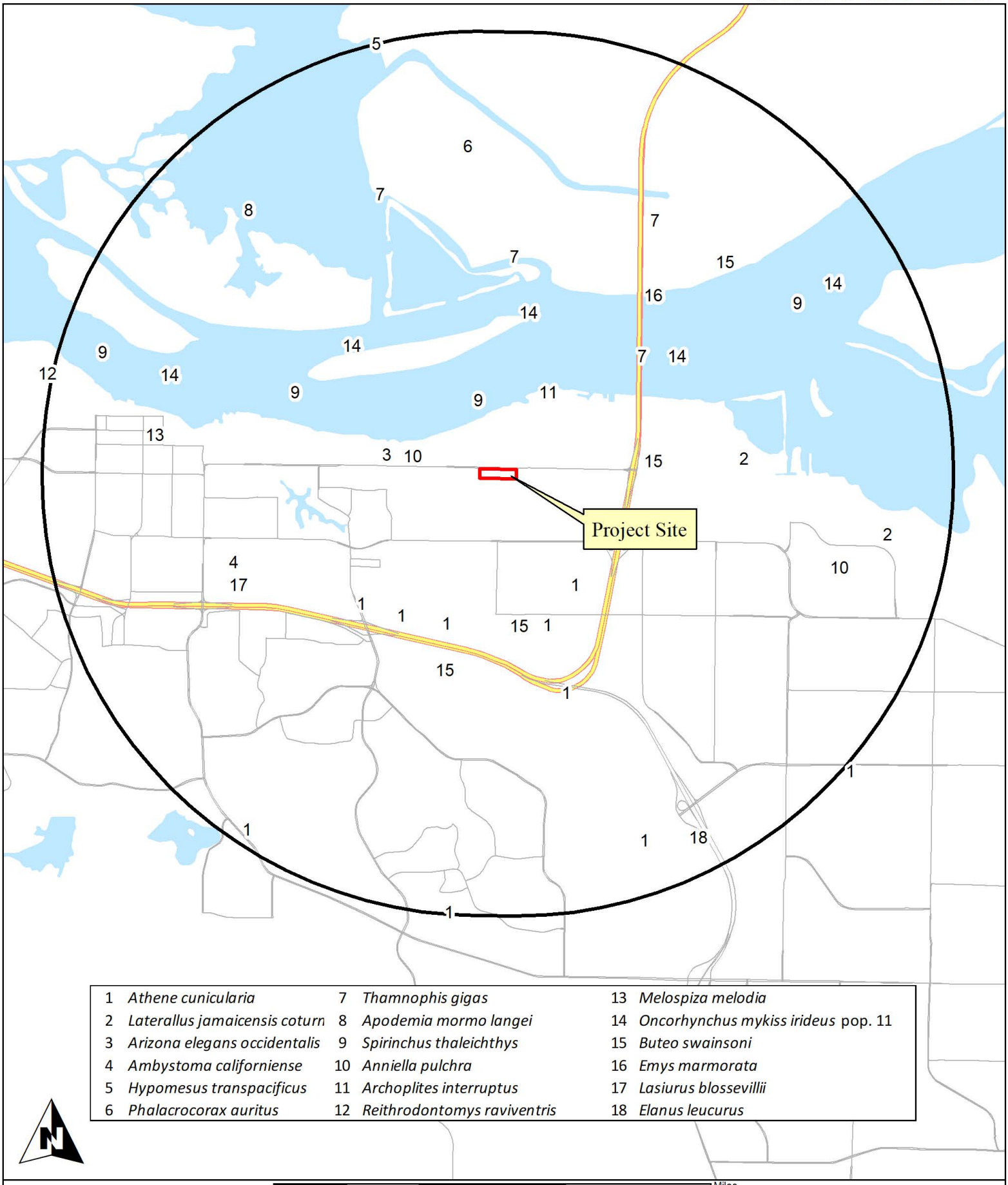
0 0.5 1 2 3 Miles

Figure 4A. Known CNDDB Records for Special-Status Plant Species Within 3 Miles of the 2600 Wilbur Avenue Project Site

Map Preparation Date:
December 17, 2019
3-Mile Radius
Source: CDFW, California Natural Diversity Data Base, 2019



1	*Athene cunicularia*	7	*Thamnophis gigas*	13	*Melospiza melodia*
2	*Laterallus jamaicensis coturn*	8	*Apodemia mormo langei*	14	*Oncorhynchus mykiss irideus* pop. 11
3	*Arizona elegans occidentalis*	9	*Spirinchus thaleichthys*	15	*Buteo swainsoni*
4	*Ambystoma californiense*	10	*Anniella pulchra*	16	*Emys marmorata*
5	*Hypomesus transpacificus*	11	*Archoplites interruptus*	17	*Lasiurus blossevillii*
6	*Phalacrocorax auritus*	12	*Reithrodontomys raviventris*	18	*Elanus leucurus*

Monk & Associates
Environmental Consultants
1136 Saranap Avenue, Suite Q
Walnut Creek, California 94595
(925) 947-4867

0 0.5 1 2 3 Miles

Figure 4B. Known CNDDB Records for Special-Status Wildlife Species Within 3 Miles of the Wilbur Avenue Project Site

Map Preparation Date: December 17, 2019
3-Mile Radius
Source: CDFW, California Natural Diversity Data Base, 2019



Monk & Associates
Environmental Consultants
1136 Saranap Avenue, Suite Q
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(925) 947-4867

Figure 5. USFWS Critical Habitat
in the Vicinity of the
Wilbur Avenue Project Site

Source: USFWS
Map Preparation Date: December 17, 2019

Table 1

Plant Species Observed on the Wilbur Avenue Project

Angiosperms - Dicots

Asteraceae

**Centaurea solstitialis*	Yellow starthistle
**Dittrichia graveolens*	Stinkwort
Heterotheca grandiflora	Telegraph weed

Brassicaceae

**Sinapis arvensis*	Wild mustard

Chenopodiaceae

**Salsola tragus*	Russian-thistle

Euphorbiaceae

**Euphorbia maculata*	Spotted spurge

Fabaceae

**Melilotus indicus*	Annual yellow sweetclover

Fagaceae

Quercus agrifolia var. agrifolia	Coast live oak

Geraniaceae

**Erodium cicutarium*	Red-stem filaree
**Erodium moschatum*	White-stem filaree

Malvaceae

**Malva parviflora*	Cheeseweed

Onagraceae

Epilobium ciliatum	Hairy willow-herb

Angiosperms -Monocots

Poaceae

**Bromus diandrus*	Ripgut grass
**Stipa miliacea var. miliacea*	Smilo grass

* Indicates a non-native species

Table 2
Wildlife Species Observed on the Wilbur Avenue Project

Birds	
Turkey vulture	*Cathartes aura*
Killdeer	*Charadrius vociferus*
Rock pigeon	*Columba livia*
California scrub jay	*Aphelocoma californica*
American crow	*Corvus brachyrhynchos*
Northern mockingbird	*Mimus polyglottos*
American pipit	*Anthus rubescens*
Yellow-rumped warbler	*Setophaga coronata*
White-crowned sparrow	*Zonotrichia leucophrys*
House finch	*Haemorhous mexicanus*
Mammals	
Audubon's cottontail	*Sylvilagus audubonii*

Table 3

Special-Status Plant Species Known to Occur within 3 Miles of the Wilbur Avenue Project Site

Family Taxon Common Name	Status*	Flowering Period	Habitat	Area Locations	Probability on Project Site
Apiaceae					
Cicuta maculata bolanderi Bolander's waterhemlock	Fed: - State: - CNPS: Rank 2B.1	July-September	Marshes and swamps (coastal, fresh, or brackish). 0 to 200 meters.	Record for this species located 2.7 mile east from the project site (Occurrence No. 15).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Lilaeopsis masonii Mason's lilaeopsis	Fed: - State: CR CNPS: Rank 1B.1	April-October	Marshes and swamps (brackish or freshwater); riparian scrub.	Record for this species located 0.7 mile northeast from the project site (Occurrence No. 19).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Asteraceae					
Blepharizonia plumosa Big tarplant	Fed: - State: - CNPS: Rank 1B.1	July-October	Valley and foothill grassland.	Record for this species located 1.5 mile southwest from the project site (Occurrence No. 58).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Lasthenia conjugens Contra Costa goldfields	Fed: FE State: - CNPS: Rank 1B.1	March-June	Valley and foothill grassland (mesic); vernal pools.	Record for this species located 1.5 mile southwest from the project site (Occurrence No. 8).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Symphyotrichum lentum Suisun Marsh aster	Fed: - State: - CNPS: Rank 1B.2	August-November	Marshes and swamps (brackish and fresh water)	Record for this species located 0.4 mile north from the project site (Occurrence No. 52).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Boraginaceae					
Cryptantha hooveri Hoover's cryptantha	Fed: - State: - CNPS: Rank 1A	April-May	Valley and foothill grassland (sandy).	Record for this species located 0.8 mile southwest from the project site (Occurrence No. 4).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.

Table 3

Special-Status Plant Species Known to Occur within 3 Miles of the Wilbur Avenue Project Site

Family Taxon Common Name	Status*	Flowering Period	Habitat	Area Locations	Probability on Project Site
Brassicaceae					
Erysimum capitatum angustatum Contra Costa wallflower	Fed: FE State: CE CNPS: Rank 1B.1	March-July	Inland dunes.	Record for this species located 0.6 mile west from the project site (Occurrence No. 2).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Fabaceae					
Lathyrus jepsonii jepsonii Delta tule pea	Fed: - State: - CNPS: Rank 1B.2	May-September	Marshes and swamps (freshwater and brackish).	Record for this species located 1.2 mile east from the project site (Occurrence No. 163).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Onagraceae					
Oenothera deltoides howellii Antioch dunes evening-primrose	Fed: FE State: CE CNPS: Rank 1B.1	March-September	Interior dunes.	Record for this species located 0.3 mile north from the project site (Occurrence No. 10).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Orobanchaceae					
Chloropyron molle molle Soft bird's-beak	Fed: FE State: CR CNPS: Rank 1B.2	July-September	Marshes and swamps (coastal salt).	Record for this species located 1.5 miles northeast from the project site (Occurrence No. 18).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Papaveraceae					
Eschscholzia rhombipetala Diamond-petaled California poppy	Fed: - State: - CNPS: Rank 1B.1	March-April	Valley and foothill grassland (clay).	Record for this species located 0.8 mile west from the project site (Occurrence No. 3).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.

Table 3

Special-Status Plant Species Known to Occur within 3 Miles of the Wilbur Avenue Project Site

Family Taxon Common Name	Status*	Flowering Period	Habitat	Area Locations	Probability on Project Site
Polygonaceae					
Eriogonum nudum psychicola Antioch Dunes buckwheat	Fed: State: CNPS: Rank 1B.1	June-October	Deltaic Great Central Valley Elevation: 0-66 ft	Record for this species located 1.6 mile west from the project site (Occurrence No. 1).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Eriogonum truncatum Mount Diablo buckwheat	Fed: - State: - CNPS: Rank 1B.1	April-September	Chaparral; coastal scrub; valley and foothill grassland; [sandy].	Record for this species located 1.4 mile west from the project site (Occurrence No. 4).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.
Scrophulariaceae					
Limosella australis Delta mudwort	Fed: - State: - CNPS: Rank 2.1	May-August	Marshes and swamps; intertidal mudflats.	Record for this species located 0.8 mile west from the project site (Occurrence No. 41).	None. Property is heavily disturbed and no suitable habitat occurs on the project site.

Table 3

Special-Status Plant Species Known to Occur within 3 Miles of the Wilbur Avenue Project Site

Family Taxon Common Name	Status*	Flowering Period	Habitat	Area Locations	Probability on Project Site

***Status**

Federal:
FE - Federal Endangered
FT - Federal Threatened
FPE - Federal Proposed Endangered
FPT - Federal Proposed Threatened
FC - Federal Candidate

State:
CE - California Endangered
CT - California Threatened
CR - California Rare
CC - California Candidate
CSC - California Species of Special Concern

CNPS:
Rank 1A - Presumed extinct in California
Rank 1B - Plants rare, threatened, or endangered in California and elsewhere
Rank 1B.1 - Seriously endangered in California (over 80% occurrences threatened/ high degree and immediacy of threat)
Rank 1B.2 - Fairly endangered in California (20-80% occurrences threatened)
Rank 1B.3 - Not very endangered in California (<20% of occurrences threatened or no current threats known)

CNPS Continued:
Rank 2 - Plants rare, threatened, or endangered in California, but more common elsewhere
Rank 2A - Extirpated in California, common elsewhere
Rank 2B.1 - Seriously endangered in California, but more common elsewhere
Rank 2B.2 - Fairly endangered in California, but more common elsewhere
Rank 2B.3 - Not very endangered in California, but more common elsewhere
Rank 3 - Plants about which we need more information (Review List)
Rank 3.1 - Plants about which we need more information (Review List) Seriously endangered in California
Rank 3.2 - Plants about which we need more information (Review List) Fairly endangered in California
Rank 4 - Plants of limited distribution - a watch list

Table 4

Special-Status Wildlife Species Known to Occur within 3 Miles of the Wilbur Avenue Project Site

Species	*Status	Habitat	Closest Locations	Probability on Project Site
Insects				
Lange's metalmark butterfly *Apodemia mormo langei*	Fed: FE State: - Other:	Found in stabilized sand dunes along the San Joaquin River at Antioch (Contra Costa County). Buckwheat (Eriogonum nudum var. auriculatum) is the host plant. Nectars on other wildflowers as well as the buckwheat.	Record for this species suppressed. (Occurrence No. 1).	None. Sand dune habitat does not occur on the project site.
Fish				
Steelhead - California Central Valley ESU *Oncorhynchus mykiss*	Fed: FT State: - Other:	Found in the Sacramento and San Joaquin Rivers and their tributaries. Migrates through the estuary to spawning grounds. Eggs are laid in small and medium gravel and need a good water flow to survive.	Record for this species located 0.9 mile north from the project site (Occurrence No. 27).	None. No fisheries habitat occurs on the project site.
Delta smelt *Hypomesus transpacificus*	Fed: FT State: CT Other:	Endemic to the Sacramento-San Joaquin Delta. Occurs seasonally in Suisun and San Pablo bays. Spawning usually occurs in dead-end sloughs and shallow channels.	Record for this species located 3.0 miles north from the project site (Occurrence No. 7).	None. No fisheries habitat occurs on the project site.
Longfin smelt *Spirinichus thaleichthys*	Fed: -- State: CT Other:	Endemic to the Sacramento-San Joaquin River system. Inhabits open waters in the Delta and Suisun Bay. After spawning, larvae are carried downstream to brackish nursery areas.	Record for this species located 0.4 mile north from the project site (Occurrence No. 33).	None. No fisheries habitat occurs on the project site.
Sacramento perch *Archoplites interruptus*	Fed: -- State: CSC Other:	Historically found in the sloughs, slow-moving rivers, and lakes of the Central Valley. Prefer warm water. Aquatic vegetation is essential for young. Tolerate wide range of physico-chemical water conditions.	Record for this species located 0.5 mile northeast from the project site (Occurrence No. 3).	None. No fisheries habitat occurs on the project site.

Table 4

Special-Status Wildlife Species Known to Occur within 3 Miles of the Wilbur Avenue Project Site

Species	*Status	Habitat	Closest Locations	Probability on Project Site
Amphibians				
California tiger salamander (Cnt Vly DPS) *Ambystoma californiense*	Fed: FT State: CT Other:	Found in grassland habitats of the valleys and foothills. Requires burrows for aestivation and standing water until late spring (May) for larvae to metamorphose.	Record for this species located 1.6 miles southwest from the project site (Occurrence No. 535). 1983	None. The closest occurrence is separated by major roads and dense urban development. Site is heavily disturbed and does not provide suitable habitat. No impact expected.
Reptiles				
California glossy snake *Arizona elegans occidentalis*	Fed: State: CSC Other:	Found at elevations from sea level to 6000 ft. Nocturnal. Lives in burrows. Habitats: barren desert, creosote flats, sagebrush flats, coastal sage, chaparral, grasslands, oak or pine woodlands. Generally prefers open areas with soft or loamy soil.	Record for this species located 0.7 mile west from the project site (Occurrence No. 259).	None. No suitable habitat occurs on the project site.
Western pond turtle ** *Emys marmorata*	Fed: - State: CSC Other:	Inhabits ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. Needs suitable basking sites and upland habitat for egg laying. Occurs in the Central Valley and Contra Costa County.	Record for this species located 1.6 miles northeast from the project site (Occurrence No. 1339).	None. No suitable aquatic habitat occurs on or adjacent to the project site.
Northern California legless lizard *Anniella pulchra*	Fed: - State: CSC Other:	Occurs from the southern edge of the San Joaquin River in northern Contra Costa County south to Ventura County. Inhabit sandy soil/dune area with bush lupine and mock heather as dominant plants. Moist soil is essential.	Record for this species located 0.6 mile west from the project site (Occurrence No. 2).	None. No suitable habitat occurs on the project site.
Giant gartersnake *Thamnophis gigas*	Fed: FT State: CT Other:	Inhabits freshwater marshes and low gradient streams. Also found in drainage canals and irrigation ditches.	Record for this species located 1.0 mile northeast from the project site (Occurrence No. 47).	None. No suitable aquatic habitat occurs on or adjacent to the project site.

Table 4

Special-Status Wildlife Species Known to Occur within 3 Miles of the Wilbur Avenue Project Site

Species	*Status	Habitat	Closest Locations	Probability on Project Site
Birds				
Song Sparrow (Modesto Population) *Melospiza melodia mailliardi*	Fed: State: CSC Other:	Endemic to California, residing only in the north-central portion of the Central Valley. Inhabits emergent freshwater marsh. vegetated irragation canals and levees dominated by tules/cattails, and blackberry. Nests in riparian willows and valley oak.	Record for this species located 1.9 miles west from the project site (Occurrence No. 91).	None. No suitable riparian habitat occurs on the project site.
Double-crested cormorant *Phalacrocorax auritus*	Fed: - State: WL Other:	Colonial nester on coastal cliffs on in tall trees along river and lake margins in the interior of the state. Nest along coast on sequestered islets, usually on ground with sloping surface, or in tall trees along lake margins.	Record for this species located 1.8 miles north from the project site (Occurrence No. 28).	None. No suitable habitat occurs on the project site.
White-tailed kite *Elanus leucurus*	Fed: State: FP Other:	Found in lower foothills and valley margins with scattered oaks and along river bottomlands or marshes adjacent to oak woodlands. Nests in trees with dense tops.	Record for this species located 2.7 miles south from the project site (Occurrence No. 87).	Low. The trees along the western project boundary provide suitable nesting habitat. Preconstruction surveys recommended - see text.
Swainson's hawk *Buteo swainsoni*	Fed: - State: CT Other:	Migratory and resident raptor that breeds in open areas with scattered trees. Prefers riparian and sparse oak woodland habitats for nesting. Requires nearby grasslands, grain fields, or alfalfa for foraging.	Record for this species located 0.9 mile east from the project site (Occurrence No. 1799).	Low. Trees on and within the vicinity of the project site may provide suitable nesting habitat. No foraging habitat occurs on the project site. Preconstruction nesting surveys recommended - see text.
California black rail *Laterallus jamaicensis coturniculus*	Fed: -- State: CT Other:	Inhabits salt marshes bordering larger bays. Prefers tidal salt marshes of pickleweed.	Record for this species located 1.4 mile east from the project site (Occurrence No. 324).	None. No salt marsh habitat occurs on the project site.
Western burrowing owl *Athene cunicularia hypugaea*	Fed: -- State: CSC Other:	Found in open, dry annual or perennial grasslands, deserts and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Record for this species located 0.7 mile southeast from the project site (Occurrence No. 947).	None. No California ground squirrels or their burrows are present on the project site.

Table 4

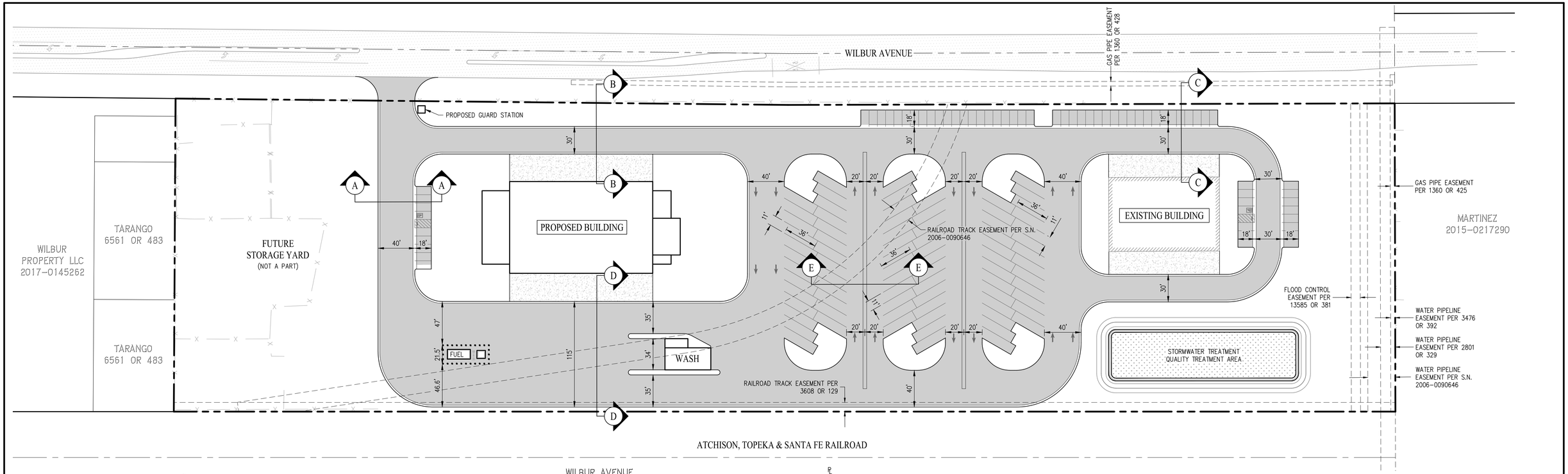
Special-Status Wildlife Species Known to Occur within 3 Miles of the Wilbur Avenue Project Site

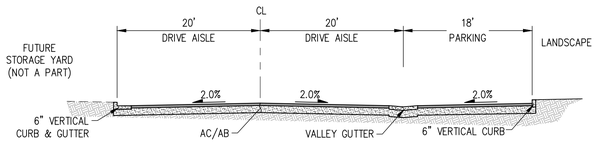
Species	*Status	Habitat	Closest Locations	Probability on Project Site
Mammals				
Western red bat *Lasiurus blossevillii*	Fed: State: CSC Other:	Prefers riparian areas where they roost in tree foliage. This bat is occasionally captured in riparian habitats dominated by cottonwoods, oaks, sycamores, and walnuts and is rarely found in desert habitats.	Record for this species located 1.5 miles southwest from the project site (Occurrence No. 66).	Low. The trees along the western project boundary provide marginal roosting habitat. Preconstruction surveys recommended - see text.
Salt marsh harvest mouse *Reithrodontomys raviventris*	Fed: FE State: CE Other:	Inhabits saline marshes in the San Francisco Estuary. Prefers pickleweed marshes. Requires higher areas for escaping high water.	Record for this species located 2.8 miles west from the project site (Occurrence No. 66).	None. No salt marsh habitat occurs on the project site.

***Status**

Federal:	State:
FE - Federal Endangered	CE - California Endangered
FT - Federal Threatened	CT - California Threatened
FPE - Federal Proposed Endangered	CR - California Rare
FPT - Federal Proposed Threatened	CC - California Candidate
FC - Federal Candidate	CSC - California Species of Special Concern
FPD - Federally Proposed for delisting	FP - Fully Protected
	WL - Watch List. Not protected pursuant to CEQA

**The USFWS hopes to finish a 12-month finding for western pond turtle in 2021 but until formally listed, it is not afforded the protections of FESA.





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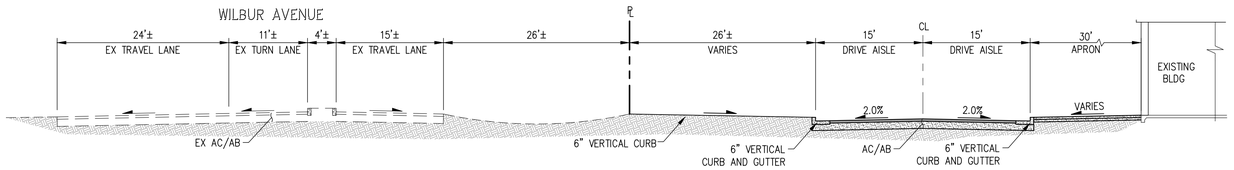

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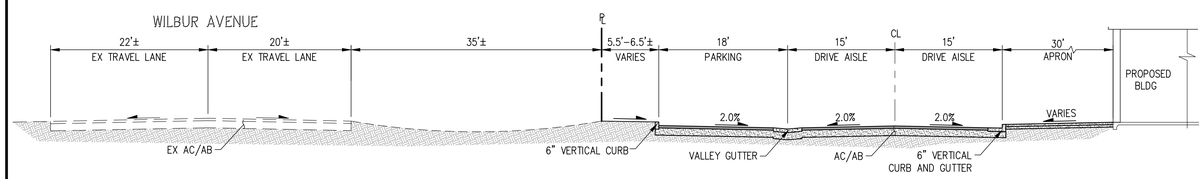

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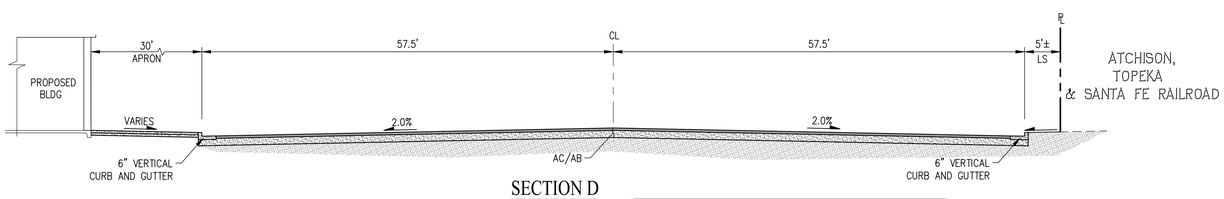

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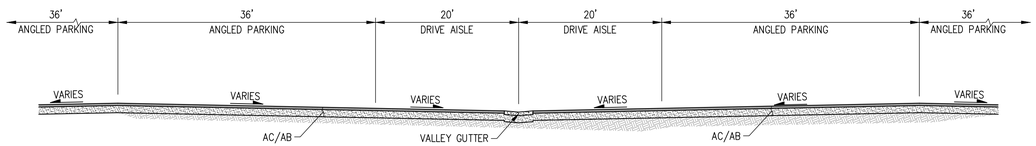

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- PROPERTY BOUNDARY
- PROPOSED BIORETENTION
- PROPOSED ASPHALT PAVEMENT
- EXISTING PAVEMENT TO REMAIN

DRAFT

PRELIMINARY SITE PLAN

2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

0' 50' 150' 200'

SCALE: 1" = 50' DATE: FEBRUARY 2020

cbg CIVIL ENGINEERS ▪ SURVEYORS ▪ PLANNERS
SAN RAMON ▪ (925) 866-0322
SACRAMENTO ▪ (916) 375-1877
WWW.CBANDG.COM

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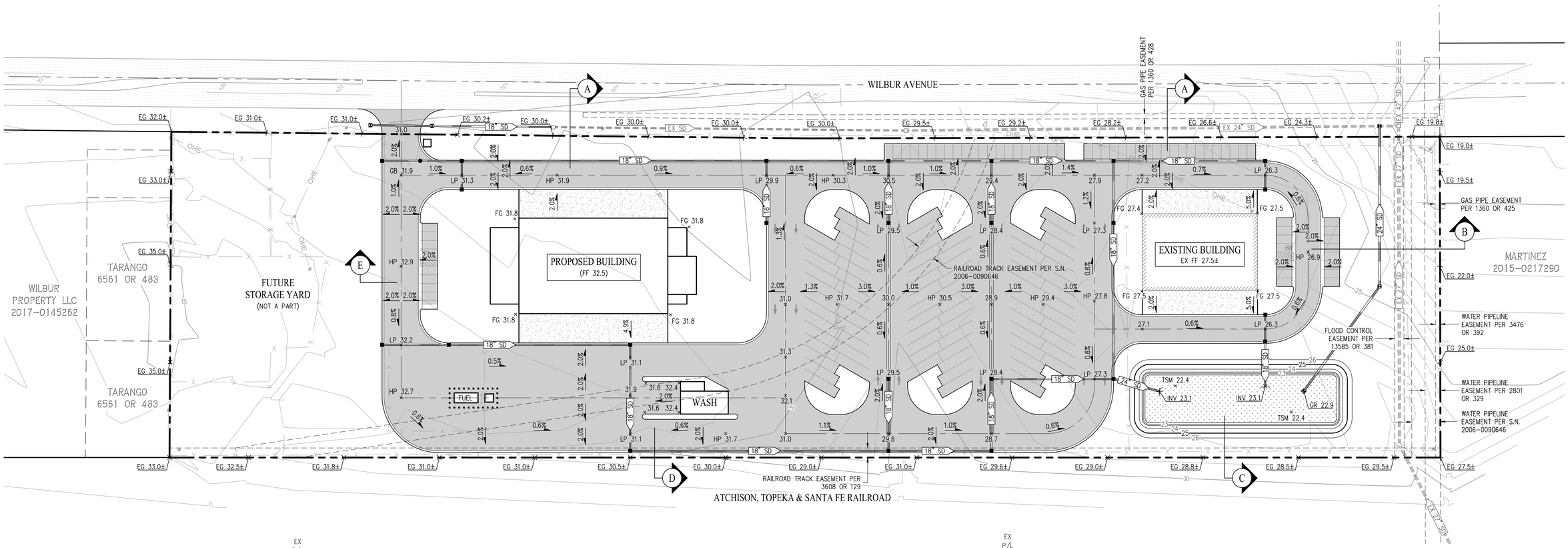

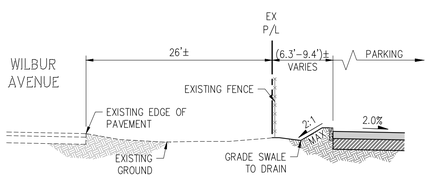

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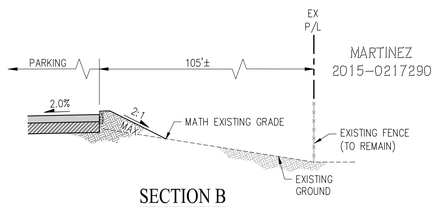

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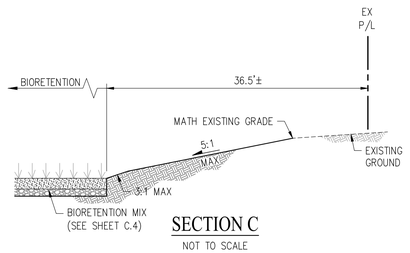

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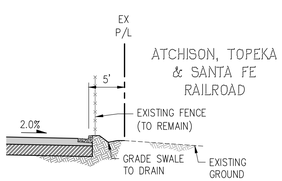

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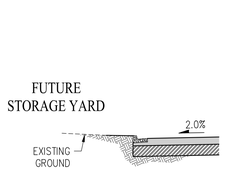

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DRAFT

PRELIMINARY GRADING AND DRAINAGE PLAN

2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

0' 50' 150' 200'

SCALE: 1" = 50'

DATE: FEBRUARY 2020

cbg
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OF 4 SHEETS

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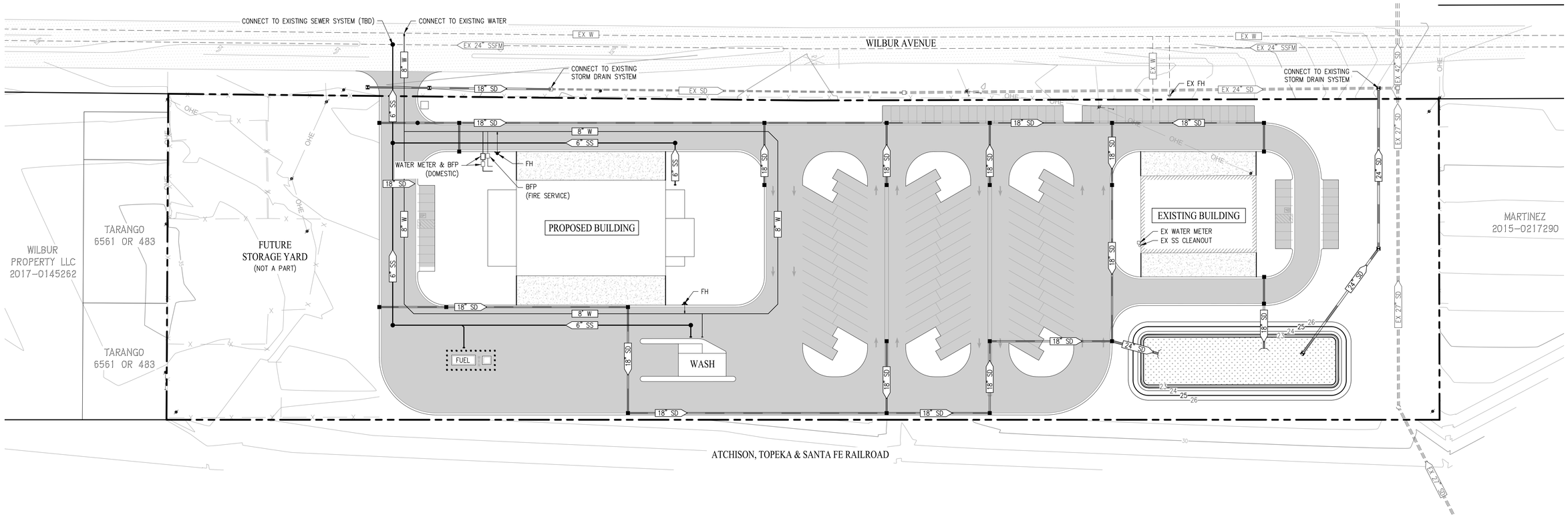

LEGEND

EX 12" SD	EXISTING STORM DRAIN PIPE	⊠	EXISTING FIELD INLET
EX 8" SS	EXISTING SANITARY SEWER PIPE	⊠	PROPOSED FIELD INLET
EX W	EXISTING WATER PIPE	○	EXISTING MANHOLE
18" SD	PROPOSED STORM DRAIN PIPE	●	PROPOSED MANHOLE
6" SS	PROPOSED SANITARY SEWER PIPE		EXISTING FIRE HYDRANT
8" W	PROPOSED WATER PIPE		PROPOSED FIRE HYDRANT
	PROPOSED BIORETENTION	⧖	EXISTING VALVE
	PROPOSED PAVEMENT	⧗	PROPOSED VALVE
	EXISTING PAVEMENT TO REMAIN		

DRAFT

PRELIMINARY UTILITY PLAN

2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

0' 50' 150' 200'

SCALE: 1" = 50' DATE: FEBRUARY 2020

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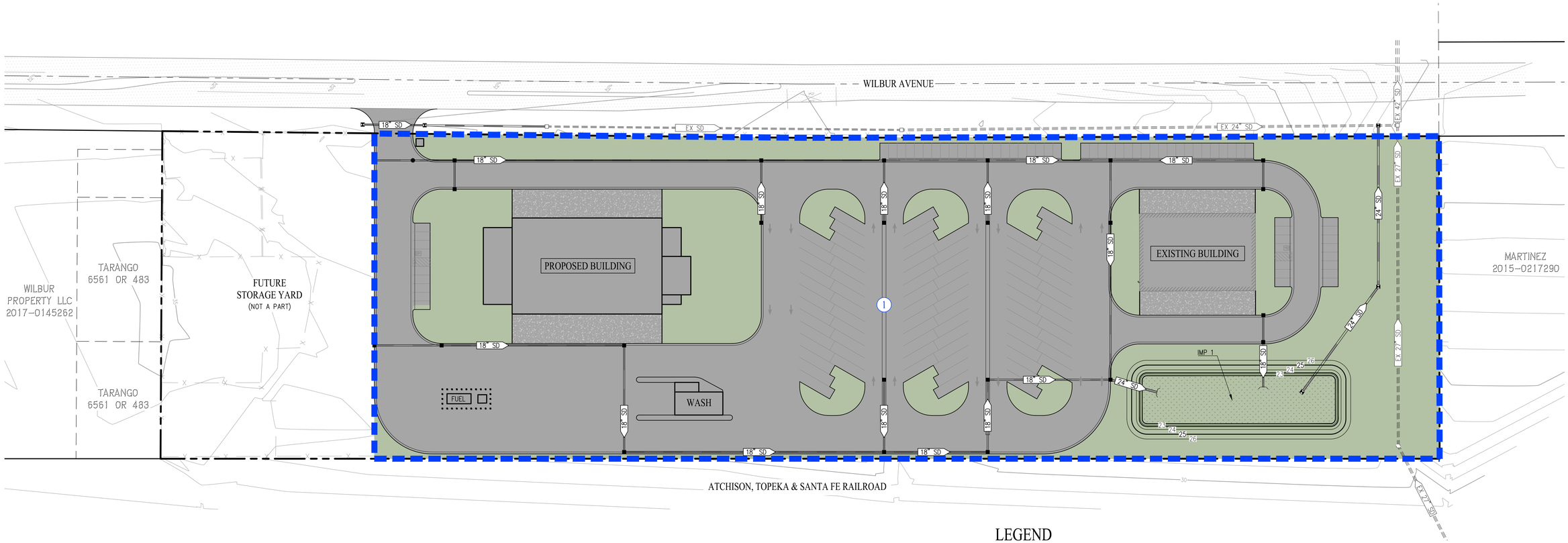

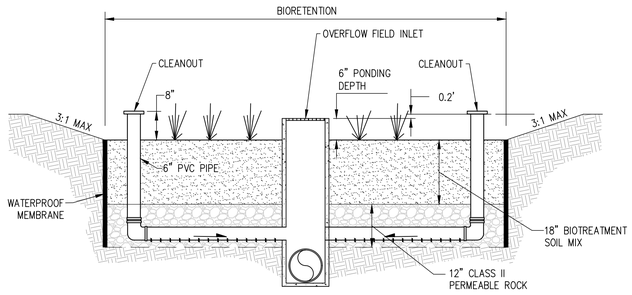

TYPICAL BIORETENTION BASIN DETAIL
(WITH SIDE SLOPES)

NOT TO SCALE

Project Name: 2600 Wilbur Avenue
Project Type: Treatment Only
APN: 051-032-009
Drainage Area: 371,978
Mean Annual Precipitation: 12.6

IV. Areas Draining to IMPs

IMP Name: IMP1
IMP Type: Bioretention Facility
Soil Group: IMP1

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA1	29,731	Conventional Roof	1.00	29,731
DMA2	207,026	Concrete or Asphalt	1.00	207,026
DMA3	125,191	Landscape	0.10	12,519
		Total		249,276
			Area	

IMP Sizing			
IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
0.040	1.000	9,971	10,030

Report generated on 2/6/2020 12:00:00 AM by the Contra Costa Clean Water Program IMP Sizing Tool software (version 1.3.1.0).

NOTES:

1. ALL TREATMENT MEASURE SIZING AND TECHNICAL REQUIREMENTS FOR THIS PROJECT ARE BASED UPON THE CONTRA COSTA COUNTY CLEAN WATER PROGRAM STORMWATER C.3 GUIDEBOOK (LATEST EDITION).
2. 100% OF SITE STROMWATER TO BE TREATED USING TREATMENT USING TREATMENT FEATURES SHOWN ON THIS PLAN.
3. ALL STROMWATER TREATMENT MEASURES AND SIZING SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE PENDING FINAL DESIGN.
4. THIS PROJECT IS EXEMPT FROM ANY HYDROMODIFICATION MANAGEMENT REQUIREMENTS PER CONTRA COSTA COUNTY CLEAN WATER PROGRAM C.3 GUIDEBOOK (LATEST EDITION).

LEGEND

- TOP OF CURB
- CATCH BASIN
- FIELD INLET
- 18" SD — PROPOSED STORM DRAIN
- EX 12" SD — EXISTING STORM DRAIN
- 1 — DRAINAGE MANAGEMENT AREA (DMA)
- DMA BOUNDARY
- PROPOSED BIORETENTION AREA (IMP)
- EXISTING PAVEMENT TO REMAIN
- LANDSCAPE AREA
- IMPERVIOUS AREA

DRAFT

PRELIMINARY STORMWATER CONTROL PLAN

2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

0' 50' 150' 200'

SCALE: 1" = 50'

DATE: FEBRUARY 2020

cbg
CIVIL ENGINEERS ▪ SURVEYORS ▪ PLANNERS
SAN RAMON ▪ (925) 866-0322
SACRAMENTO ▪ (916) 375-1877
WWW.CBANDG.COM

SHEET NO. C.4 OF 4 SHEETS

2/7/2020 4:14 PM

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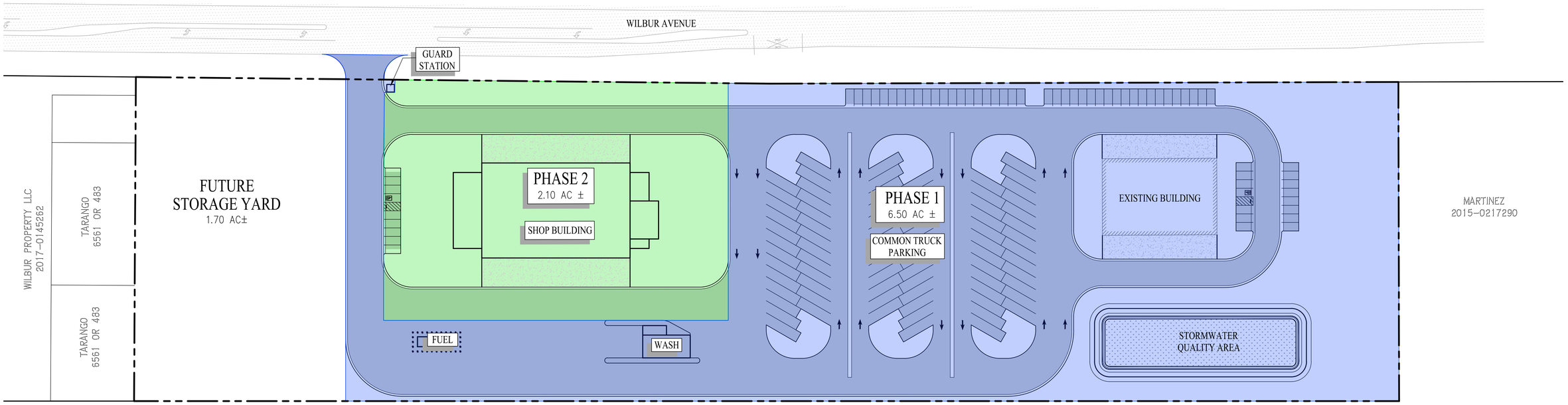

DRAFT

CONCEPTUAL PHASING PLAN

2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

LEGEND

- PROPERTY BOUNDARY
- PHASE 1 (6.50 AC±)
- PHASE 2 (2.10 AC±)

0' 50' 150' 200'

SCALE: 1" = 50'

DATE: FEBRUARY 2020

cbg
CIVIL ENGINEERS ▪ SURVEYORS ▪ PLANNERS
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WWW.CBANDG.COM

2/7/2020 4:08 PM

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CNPS California Native Plant Society

*The database used to provide updates to the Online Inventory is under construction. View updates and changes made since May 2019 here.

Plant List

24 matches found. *Click on scientific name for details*

Search Criteria

California Rare Plant Rank is one of [1A, 1B, 2A, 2B], Found in Quad 3812117

Modify Search Criteria | Export to Excel | Modify Columns | Modify Sort | Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Astragalus tener var. tener	alkali milk-vetch	Fabaceae	annual herb	Mar-Jun	1B.2	S1	G2T1
Atriplex cordulata var. cordulata	heartscale	Chenopodiaceae	annual herb	Apr-Oct	1B.2	S2	G3T2
Atriplex depressa	brittlescale	Chenopodiaceae	annual herb	Apr-Oct	1B.2	S2	G2
Blepharizonia plumosa	big tarplant	Asteraceae	annual herb	Jul-Oct	1B.1	S1S2	G1G2
Chloropyron molle ssp. molle	soft bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	Jun-Nov	1B.2	S1	G2T1
Cicuta maculata var. bolanderi	Bolander's water-hemlock	Apiaceae	perennial herb	Jul-Sep	2B.1	S2?	G5T4T5
Cryptantha hooveri	Hoover's cryptantha	Boraginaceae	annual herb	Apr-May	1A	SH	GH
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	Mar-May	2B.2	S2	GU
Eriogonum nudum var. psychicola	Antioch Dunes buckwheat	Polygonaceae	perennial herb	Jul-Oct	1B.1	S1	G5T1
Eriogonum truncatum	Mt. Diablo buckwheat	Polygonaceae	annual herb	Apr-Sep(Nov-Dec)	1B.1	S1	G1
Erysimum capitatum var. angustatum	Contra Costa wallflower	Brassicaceae	perennial herb	Mar-Jul	1B.1	S1	G5T1
Eschscholzia rhombipetala	diamond-petaled California poppy	Papaveraceae	annual herb	Mar-Apr	1B.1	S1	G1
Extriplex joaquinana	San Joaquin spearscale	Chenopodiaceae	annual herb	Apr-Oct	1B.2	S2	G2
Fritillaria liliacea	fragrant fritillary	Liliaceae	perennial bulbiferous herb	Feb-Apr	1B.2	S2	G2
Isocoma arguta	Carquinez goldenbush	Asteraceae	perennial shrub	Aug-Dec	1B.1	S1	G1
Lasthenia conjugens	Contra Costa goldfields	Asteraceae	annual herb	Mar-Jun	1B.1	S1	G1
	Delta tule pea	Fabaceae	perennial herb	May-	1B.2	S2	G5T2

Lathyrus jepsonii var. jepsonii				Jul(Aug-Sep)			
Lilaeopsis masonii	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	Apr-Nov	1B.1	S2	G2
Limosella australis	Delta mudwort	Scrophulariaceae	perennial stoloniferous herb	May-Aug	2B.1	S2	G4G5
Madia radiata	showy golden madia	Asteraceae	annual herb	Mar-May	1B.1	S3	G3
Neostapfia colusana	Colusa grass	Poaceae	annual herb	May-Aug	1B.1	S1	G1
Oenothera deltoides ssp. howellii	Antioch Dunes evening-primrose	Onagraceae	perennial herb	Mar-Sep	1B.1	S1	G5T1
Plagiobothrys hystriculus	bearded popcornflower	Boraginaceae	annual herb	Apr-May	1B.1	S2	G2
Symphyotrichum lentum	Suisun Marsh aster	Asteraceae	perennial rhizomatous herb	(Apr)May-Nov	1B.2	S2	G2

Suggested Citation

California Native Plant Society, Rare Plant Program. 2020. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 09 October 2020].

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The Consortium of California Herbaria
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Questions and Comments
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United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To: September 30, 2020
Consultation Code: 08ESMF00-2020-SLI-3013
Event Code: 08ESMF00-2020-E-09313
Project Name: Mt Diablo Wilbur Ave

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

Project Summary

Consultation Code: 08ESMF00-2020-SLI-3013

Event Code: 08ESMF00-2020-E-09313

Project Name: Mt Diablo Wilbur Ave

Project Type: DEVELOPMENT

Project Description: 2600 Wilbur Avenue Project, Antioch, California
APN: 051-032-009 (~10.3 Acres)

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/38.011672450364664N121.7691171151256W



Counties: Contra Costa, CA

Endangered Species Act Species

There is a total of 20 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Salt Marsh Harvest Mouse *Reithrodontomys raviventris* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/613	Endangered
San Joaquin Kit Fox *Vulpes macrotis mutica* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2873	Endangered

Birds

NAME	STATUS
California Clapper Rail *Rallus longirostris obsoletus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4240	Endangered
California Least Tern *Sterna antillarum browni* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8104	Endangered

Reptiles

NAME	STATUS
Giant Garter Snake *Thamnophis gigas*	Threatened

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/4482

Amphibians

NAME	STATUS
California Red-legged Frog *Rana draytonii*	Threatened

There is **final** critical habitat for this species. Your location is outside the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/2891
Species survey guidelines:
https://ecos.fws.gov/ipac/guideline/survey/population/205/office/11420.pdf

California Tiger Salamander *Ambystoma californiense*	Threatened

Population: U.S.A. (Central CA DPS)
There is **final** critical habitat for this species. Your location is outside the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/2076

Fishes

NAME	STATUS
Delta Smelt *Hypomesus transpacificus*	Threatened

There is **final** critical habitat for this species. Your location overlaps the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/321

Insects

NAME	STATUS
Delta Green Ground Beetle *Elaphrus viridis* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2319	Threatened
Lange's Metalmark Butterfly *Apodemia mormo langei* There is **proposed** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/4382	Endangered
San Bruno Elfin Butterfly *Callophrys mossii bayensis* There is **proposed** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/3394	Endangered
Valley Elderberry Longhorn Beetle *Desmocerus californicus dimorphus* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7850 Habitat assessment guidelines: https://ecos.fws.gov/ipac/guideline/assessment/population/436/office/11420.pdf	Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp *Branchinecta lynchi* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp *Lepidurus packardi* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Antioch Dunes Evening-primrose *Oenothera deltoides ssp. howellii* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5970	Endangered
Colusa Grass *Neostapfia colusana* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5690	Threatened
Contra Costa Goldfields *Lasthenia conjugens* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7058	Endangered
Contra Costa Wallflower *Erysimum capitatum var. angustatum* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7601	Endangered
Keck's Checker-mallow *Sidalcea keckii* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5704	Endangered
Soft Bird's-beak *Cordylanthus mollis ssp. mollis* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8541	Endangered

Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Delta Smelt *Hypomesus transpacificus* https://ecos.fws.gov/ecp/species/321#crithab	Final

Appendix B AIR QUALITY AND GREENHOUSE GAS ASSUMPTIONS AND CALEEMOD RESULTS

Stantec

Memo

To:	City of Antioch 200 H Street Antioch, CA 94509	From:	Stantec Consulting Inc. 1340 Treat Boulevard Walnut Creek, CA 94597
File:	185705125	Date:	December 17, 2020

Reference: Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum

This memorandum documents the results of the CalEEMod emission estimates, Health Risk Assessment (HRA), and energy consumption for the proposed Mt. Diablo Resource Recovery Truck Maintenance Facility Project (project) at 2600 Wilbur Avenue in the City of Antioch.

Project Location and Description

The project includes development of the Mt. Diablo Resource Recovery Truck Maintenance Facility at 2600 Wilbur Avenue in the city of Antioch, California. The proposed project would be developed in three phases on a 10.28-acre site that is partially developed with a 9,730-square-foot metal warehouse building and approximately 10,000 square feet of paved surface parking. Phase 1 would initially use the existing 9,730-square-foot warehouse building as an interim truck repair and maintenance facility and would construct approximately 3.5 acres of truck and employee parking and a truck fueling station. In Phase 2, the proposed project would construct a new metal warehouse building of approximately 18,533 square feet, a vehicle and equipment wash station, and a storage yard. The new 18,533-square-foot building would dedicate approximately 15,533 square feet to truck service repairs and 3,000 square feet to shop and dispatch offices, restrooms, a break room, locker rooms, and a storage room. Phase 3 of development would include drainage improvements and grading approximately 1.73 acres in the west portion of the site. This portion of the project site would continue to be used as a storage yard; however, future development is planned and may include construction of a 18,500 square foot warehouse building that provides truck parking and is similar in design, appearance, and height as the Phase 2 building. The conceptual site plan is overlaid at the project location in Figure 1.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**



Figure 1 – Proposed Project Site Plan Overlay

AIR QUALITY AND GREENHOUSE GAS EMISSIONS

MODELING PARAMETERS AND ASSUMPTIONS

The following modeling parameters and assumptions were used to generate criteria air pollutant and greenhouse gas (GHG) emissions for the Mt. Diablo Resource Recovery Truck Maintenance Facility Project.

MODEL SELECTION

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. CalEEMod quantifies direct emissions from construction and operation activities (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Further, CalEEMod identifies mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from measures chosen by the user.

CalEEMod was developed for the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the California Air Districts. Default data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California Air Districts to account for local requirements and conditions.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

CalEEMod is a comprehensive tool for quantifying air quality impacts from land use projects located throughout California. The model can be used for a variety of situations where an air quality analysis is necessary or desirable such as preparing CEQA or National Environmental Policy Act documents, conducting pre-project planning, and, verifying compliance with local air quality rules and regulations, etc.

CalEEMod version 2016.3.2 was used to estimate construction and operational impacts of the proposed project.

AIR POLLUTANTS AND GHGS THAT WERE ASSESSED

Criteria Pollutants Assessed

The following criteria air pollutants were assessed in this analysis: ROG, NO_X, PM_{10}, and $PM_{2.5}$.

Note that the proposed project would emit ozone precursors ROG and NO_X. However, the proposed project would not directly emit ozone since it is formed in the atmosphere during the photochemical reaction of ozone precursors.

GHGs Assessed

This analysis was restricted to GHGs identified by AB 32, which include CO_2, CH_4, N_2O, HFCs, PFCs, SF_6, and NF_3. The proposed project would generate a variety of GHGs, including several defined by AB 32 such as CO_2, CH_4 and N_2O.

GHG emissions associated with the proposed project construction and future operations were estimated using CO_2e emissions as a proxy for all GHG emissions. In order to obtain the CO_2e, an individual GHG is multiplied by its GWP. The GWP designates on a pound for pound basis the potency of the GHG compared to CO_2.

ASSUMPTIONS

Construction Modeling Assumptions

Schedule

The proposed project would require various tasks including site preparation, grading, building construction, architectural coatings, and paving. The project would be divided into 3 phases. As shown in Table 1, it is anticipated that the construction of Phase 1 would take approximately three months, starting in June 2021 and ending in August 2021. It is anticipated that Phase 2 would take approximately 5 months with construction starting in June 2023 and ending in October 2023. The anticipated construction schedule for Phase 3 is currently unknown, but to provide a conservative analysis it is expected that construction would be similar to Phase 2 and take approximately 5 months and it would be assumed to begin construction in 2026. Project construction hours would be in accordance with the City of Antioch noise ordinance, which limits activity during the hours specified below:

1. On weekdays prior to 7:00 AM and after 6:00 PM
2. On weekdays within 300 feet of occupied dwellings, prior to 8:00 AM and after 5:00 PM
3. On weekends and holidays, prior to 9:00 AM and after 5:00 PM, irrespective of the distance from the occupied dwellings.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

There would be an average of 8 temporary onsite workers during each construction phase, but there would be a maximum of 12 construction workers during peak hours. It is anticipated that the construction workforce would be available from nearby areas.

Table 1: Project Construction Schedule

Project Phase	Construction Task	Start Date	End Date	Number of Workdays per Week	Workdays[1]
Phase 1	Site Preparation	6/1/2021	6/14/2021	5	10
	Grading	6/15/2021	7/12/2021	5	20
	Paving	7/13/2021	8/9/2021	5	20
Phase 2	Site Preparation	6/1/2023	6/1/2023	5	1
	Grading	6/2/2023	6/5/2023	5	2
	Building Construction	6/6/2023	10/23/2023	5	100
	Paving	9/15/2023	9/21/2023	5	5
	Architectural Coating	10/24/2023	10/30/2023	5	5
Phase 3	Site Preparation	6/1/2026	6/1/2026	5	1
	Grading	6/2/2026	6/3/2026	5	2
	Building Construction	6/4/2026	10/21/2026	5	100
	Paving	9/15/2026	9/21/2026	5	5
	Architectural Coating	10/24/2026	10/30/2026	5	5

[1] The construction schedule and number of workdays were obtained from the project description; slight modifications were made to the dates in order to retain the correct number of workdays in CalEEMod.

Equipment

The project site would be accessed by construction crews from SR-160 and Wilbur Avenue. All construction materials and equipment would be stored onsite. Construction activities would generally be anticipated to occur within the project site; however, work may extend into Wilbur Avenue to connect to existing utility lines and other necessary improvements. Construction equipment anticipated for each phase is listed in

Table 2. No pile driving is proposed.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

Table 2: Project Construction Equipment

Phase Name	Equipment Type	# of Equipment	Usage (hours/day)	Horsepower	Load Factor
Phase 1-Site Preparation	Rubber Tired Dozers	3	8	247	0.40
	Tractors/Loaders/Backhoes	4	8	97	0.37
Phase 1-Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.40
	Scrapers	2	8	367	0.48
Phase 1-Paving	Pavers	2	8	130	0.42
Phase 2-Site Preparation	Graders	1	8	187	0.41
	Tractors/Loaders/Backhoes	1	8	97	0.37
Phase 2-Grading	Concrete/Industrial Saws	1	8	81	0.73
	Rubber Tired Dozers	1	1	247	0.40
	Tractors/Loaders/Backhoes	2	6	97	0.37
Phase 2-Building Construction	Cranes	1	4	231	0.29
	Forklifts	2	6	89	0.20
	Tractors/Loaders/Backhoes	2	8	97	0.37
Phase 2-Paving	Cement and Mortar Mixers	4	6	9	0.56
	Pavers	1	7	130	0.42
	Rollers	1	7	80	0.38
	Tractors/Loaders/Backhoes	1	7	97	0.37
Phase 2-Architectural Coating	Air Compressors	1	6	78	0.48
Phase 3-Site Preparation	Graders	1	8	187	0.41
	Tractors/Loaders/Backhoes	1	8	97	0.37
Phase 3-Grading	Concrete/Industrial Saws	1	8	81	0.73
	Rubber Tired Dozers	1	1	247	0.4
	Tractors/Loaders/Backhoes	2	6	97	0.37
Phase 3-Building Construction	Cranes	1	4	231	0.29
	Forklifts	2	6	89	0.20
	Tractors/Loaders/Backhoes	2	8	97	0.37
Phase 3-Paving	Cement and Mortar Mixers	4	6	9	0.56

Phase Name	Equipment Type	# of Equipment	Usage (hours/day)	Horsepower	Load Factor
	Pavers	1	7	130	0.42
	Rollers	1	7	80	0.38
	Tractors/Loaders/Backhoes	1	7	97	0.37
Phase 3-Architectural Coating	Air Compressors	1	6	78	0.48

Vehicles Trips

Off-site construction emissions would be caused by motor vehicle exhaust from delivery vehicles, worker traffic, and road dust (PM_{10} and $PM_{2.5}$). The default values for hauling trips are based on the assumption that a truck can haul 20 tons (or 16 cubic yards) of material per load. If one load of material is delivered, CalEEMod assumes that one haul truck importing material will also have a return trip with an empty truck (e.g., 2 one-way trips). The estimated amount of cut and fill for each phase is provided in Table 3. It is estimated that the total amount of earth movement for the proposed project would require approximately 14,285 cubic yards of cut and approximately 11,385 cubic yards of fill, some of which would be balanced on-site.

Table 3: Estimated Cut and Fill

Activity	Phase 1	Phase 2	Phase 3	Total
Cut (CY)	10,490	40	3,755	14,285
Fill (CY)	6,735	2,345	2,305	11,385
Material to be Imported or Exported (CY)	**3,755 (export)**	**2,305 (import)**	**1,450 (export)**	**7,510 (import and export)**

Notes:
CY = cubic yard

Table 4 provides a summary of the construction-related vehicle trips. The vendor trips fleet mix is composed of a mixture of medium and heavy-duty diesel trucks. The hauling trips are assumed to be 100% heavy-duty diesel truck trips. CalEEMod default trip lengths were used for the worker (10.8 miles), vendor (7.3 miles), and hauling trips (20 miles).

Table 4: Construction Vehicle Trips

Phase	Construction Activity	Worker Trips per Day	Vendor Trips per Day	Total Haul Truck Trips
Phase 1	Site Preparation	30	0	14
	Grading	30	0	481
	Paving	30	8	4
Phase 2	Site Preparation	30	0	4
	Grading	30	0	236
	Building Construction	30	5	10
	Paving	30	0	14
	Architectural Coating	30	0	2
Phase 3	Site Preparation	30	0	6
	Grading	30	0	151
	Building Construction	30	12	16
	Paving	30	0	12
	Architectural Coating	30	0	2

OPERATIONAL MODELING ASSUMPTIONS

Operational emissions are those emissions that occur during operation of the proposed project. The sources are summarized below.

Motor Vehicles

Motor vehicle emissions refer to exhaust and road dust emissions from the vehicles that would travel to and from the proposed project site.

Table 5: Project Trips (Daily)

Category	Daily Trips (Weekday Trips)
Employee Vehicles	138
Trucks	130
Visitors/Deliveries	47
Total	**315**

Source: Stantec 2020

Mobile-source emissions were estimated for the three categories by modeling three separate CalEEMod runs. The daily trips presented in Table 5 were applied to the weekday trips. Saturday trips for the employee vehicles and truck trips were adjusted to account for reduced Saturday operations. As the facility would be

closed on Sunday, Sunday trips were zeroed out in the CalEEMod modeling. Weekday, Saturday, and Sunday trips applied for the purposes of estimating emissions trips are shown in Table 6.

Table 6: Proposed Project Trips (Weekday, Saturday, and Sunday)

Category	Weekday Trips (Trips per Day)	Saturday Trips (Trips per Day)	Sunday Trips (Trips per Day)
Employee Vehicles	138	10.6[1]	0
Trucks	130	20[1]	0
Visitors/Deliveries	47	47	0
Total	**315**	**77.6**	**0**

Notes:
[1] Calculated by multiplying 5/65 by the weekday trips based on Saturday operations. Five employees would be present on Saturday. There would be 65 employees present on each weekday, which results in a ratio of 5/65 to determine Saturday trips.
Source: Attachment A

Trip Lengths and Vehicle Fleet Mix

The vehicle fleet mix is defined as the mix of motor vehicle classes active during the operation of the proposed project. Emission factors were assigned to the expected vehicle mix as a function of vehicle class, speed, and fuel use (gasoline- and diesel-powered vehicles).

Employee Vehicles

The trip length that was used for employee vehicle trips was taken from the VMT Analysis Screening memo, which in turn used the Citywide Average Home-Based Work per Worker of 10.7 VMT (vehicle miles traveled). To represent this in CalEEMod, the trip length for employee trips was updated to 10.7 miles. Employee trips were assumed to be 100% primary trips. A passenger vehicle fleet mix derived from the CalEEMod default vehicle fleet mix for the project area was used for the employee vehicle trips. The calculations showing how the fleet mixes for each operational year were derived are provided in Attachment B.

Trucks

The 130 daily truck trips were assumed to be comprised of 100% heavy-heavy duty trucks (4+ axle trucks). Truck trips can be expected to have longer trip lengths compared to the CalEEMod default values. A project-specific trip length of 47.90 miles was applied to estimate emissions from trucks. Truck trips were assumed to be 100% primary trips.

Visitors/Deliveries

The CalEEMod default trip lengths and trip types for an urban setting for a project in the Contra Costa County portion of the San Francisco Bay Area Air Basin were used for the visitor/delivery trips. Non-residential trip types are defined as commercial –customer (C-C), commercial-work (C-W), and commercial-nonwork (C-NW) such as delivery trips. The CalEEMod default trip lengths are 7.3 miles for C-C trips, 9.5 miles for C-W trips, and 7.3 miles for C-NW trips. Trip lengths are for primary trips. Trip purposes are primary, diverted, and pass-by trips. Diverted trips were assumed to take a slightly different path than a primary trip. The CalEEMod default vehicle fleet mix was used to represent visitor/delivery trips.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

Area Sources

Consumer Products

Consumer products are various solvents used in non-industrial applications that emit ROGs during their product use. These typically include cleaning supplies, kitchen aerosols, cosmetics and toiletries. The default CalEEMod value was used for this project.

Architectural Coatings (Painting)

Paints release VOC emissions. The building would be repainted on occasion. CalEEMod defaults would be used for this purpose.

Landscaping Emissions

CalEEMod estimated a total of 180 days for which landscaping equipment would be used to estimate potential emissions for the proposed project.

Energy Use

The emissions associated with the building electricity and natural gas usage (non-hearth) were estimated based on the land use type and size. The electricity energy use is in units of kilowatt hours per size metric for each land use type.

California's Renewables Portfolio Standard (RPS) is not accounted for in CalEEMod 2016.3.2. Reductions from RPS are addressed by revising the electricity emission intensity factor in CalEEMod to account for the utility RPS rate forecast for the operational years assessed. Pacific Gas and Electric (PG&E) provides emission factors for the electricity it provides to customers and projections for its energy portfolio for each year through 2030 that is used to estimate project emissions. Calculations and sources associated with the adjusted CO_2 intensity factors are provided in Attachment B.

Natural gas use is in units of a thousand British Thermal Units per size metric for each land use type.

Water and Wastewater Use

Supplying and treating water for buildings generates GHG emissions. Depending on the specific water supply used or treatment method used these numbers can vary over a wide range. Supplying water is bringing the water from its primary source such as the ground, river, or snowpack to the treatment plant. Distributing the water is bringing the water from the treatment plant to the end users. The electricity intensity factors are multiplied by the utility GHG emissions intensity factors for the GHGs and are classified as indirect emissions. The default electricity intensity is from the CEC's 2006 Refining Estimates of Water-Related Energy Use in California using the average values for Northern and Southern California. The location will automatically select the appropriate values if using these defaults. Since the electricity can vary greatly based on locations, the user should override these values if they have more specific information regarding their specific water supply and treatment.

It is estimated that the existing warehouse building would demand approximately 1,280 gallons per day (gpd) of water and the Phase 2 and Phase 3 buildings would each demand approximately 1,860 gpd (5,000 gpd total).

Wastewater may also have direct emissions of GHGs. These depend on the type of wastewater treatment system (e.g., septic, aerobic or lagoons) used and therefore the wastewater treatment type percentages are variables. CalEEMod defaults or project-specific information were used for inputs associated with water and wastewater use. Inputs for the water consumption for the buildings were adjusted to match the provided project-specific information by adjusting indoor water category consumption values for proposed buildings. CalEEMod default values were retained for the outdoor water category and for any land uses were project-specific information was not provided in the project description.

Solid Waste

GHG emissions are associated with the disposal of solid waste generated by the proposed project into landfills. CalEEMod defaults were used for inputs associated with solid waste.

THRESHOLDS

The BAAQMD adopted significance thresholds for construction-related and operational ROG, NO_X, PM, CO, and CO_2e, these thresholds are included in Table 7.

Table 7: BAAQMD Proposed Project-Level Air Quality CEQA Thresholds of Significance

Criteria Pollutants	Construction-Related	Operational-Related	
Criteria Air Pollutants and Precursors (regional)	**Average Daily Emissions (lbs/day)**	**Average Daily Emissions (lbs/day)**	**Maximum Annual Emissions (tpy)**
ROG	54	54	10
NO_x	54	54	10
PM_{10}	82 (exhaust)	82	15
$PM_{2.5}$	54 (exhaust)	54	10
$PM_{10}/PM_{2.5}$ (fugitive dust)	Best Management Practices	None	
Local CO	None	9.0 ppm (8-hour average), 20.0 ppm (1-hour average)	
GHGs (projects other than stationary sources)	None	Compliance with Qualified GHG Reduction Strategy OR 1,100 $MTCO_2e$/yr OR 4.6 $MTCO_2e$/SP/yr (residents + employees)	

Notes:
CO = carbon monoxide
GHG = greenhouse gas
lbs/day= pounds per day
$MTCO_2e$/yr= metric tons of carbon dioxide equivalent per year
$MTCO_2e$/SP/yr= metric tons of carbon dioxide equivalent per service population per year
NO_X = nitrogen oxide
$PM_{2.5}$ = particulate matter 2.5 microns in diameter or less
PM_{10} = particulate matter 10 microns in diameter or less
ppm = parts per million
ROG = reactive organic gas
tpy= trips per year

Criteria Pollutants	Construction-Related	Operational-Related

Source: BAAQMD 2017

CRITERIA POLLUTANT CALEEMOD RESULTS

Construction

Annual and daily average emissions for the entire construction duration are shown in Table 8. Average daily emissions for the individual construction phases are shown as follows:

- Phase 1: Table 9;
- Phase 2: Table 10; and
- Phase 3: Table 11.

Table 8: Construction Annual and Daily Average Emissions (Unmitigated Average Daily Rate)

Parameter	Air Pollutants			
	ROG	**NO_X**	**PM_{10} (Exhaust)**	**$PM_{2.5}$ (Exhaust)**
Phase 1 Construction (tons/year)	0.07	0.76	0.03	0.03
Phase 2 Construction (tons/year)	0.14	0.39	0.02	0.02
Phase 3 Construction (tons/year)	0.14	0.36	0.01	0.01
Total Emissions (tons/year)	*0.36*	*1.50*	*0.06*	*0.06*
Total Emissions (pounds/year)	722.62	3,005.74	122.32	112.60
Average Daily Emissions (pounds/day)[1]	**2.72**	**11.30**	**0.46**	**0.42**
Significance Threshold (pounds/day)	**54**	**54**	**82**	**54**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
[1] Calculated by dividing the total number of pounds by the total 266 working days of construction for the entire construction period. Calculations use unrounded numbers.
lbs = pounds
NO_X = oxides of nitrogen
PM_{10} = particulate matter 10 microns in diameter
$PM_{2.5}$ = particulate matter 2.5 microns in diameter
ROG = reactive organic gases
Source of thresholds: BAAQMD 2017
Source of emissions: CalEEMod Output (see Attachment A).

Table 9: Phase 1 Total Construction Emissions (Unmitigated Average Daily Rate)

Parameter	Air Pollutants			
	ROG	**NO_X**	**PM_{10} (Exhaust)**	**$PM_{2.5}$ (Exhaust)**
Total Emissions (tons/year)	0.07	0.76	0.03	0.03
Total Emissions (pounds/year)	140	1,520	60	60
Average Daily Emissions (pounds/day)[1]	**2.80**	**30.40**	**1.20**	**1.20**
Significance Threshold (pounds/day)	**54**	**54**	**82**	**54**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
[1] Calculated by dividing the total number of pounds by the total 50 working days of construction for Phase 1. Calculations use rounded totals.
lbs = pounds
NO_X = oxides of nitrogen
PM_{10} = particulate matter 10 microns in diameter
$PM_{2.5}$ = particulate matter 2.5 microns in diameter
ROG = reactive organic gases
Source of thresholds: BAAQMD 2017
Source of emissions: CalEEMod Output (see Attachment A).

Table 10: Phase 2 Construction Emissions (Unmitigated Average Daily Rate)

Parameter	Air Pollutants			
	ROG	**NO_X**	**PM_{10} (Exhaust)**	**$PM_{2.5}$ (Exhaust)**
Total Emissions (tons/year)	0.14	0.39	0.02	0.02
Total Emissions (pounds/year)	280	780	40	40
Average Daily Emissions (pounds/day)[1]	**2.59**	**7.22**	**0.37**	**0.37**
Significance Threshold (pounds/day)	**54**	**54**	**82**	**54**

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

Parameter	Air Pollutants			
	ROG	NO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
[1] Calculated by dividing the total number of pounds by the total 108 working days of construction for Phase 2.
Calculations use rounded totals.
lbs = pounds
NO_X = oxides of nitrogen
PM_{10} = particulate matter 10 microns in diameter
$PM_{2.5}$ = particulate matter 2.5 microns in diameter
ROG = reactive organic gases
Source of thresholds: BAAQMD 2017
Source of emissions: CalEEMod Output (see Attachment A).

Table 11: Phase 3 Construction Emissions (Unmitigated Average Daily Rate)

Parameter	Air Pollutants			
	ROG	NO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
Total Emissions (tons/year)	0.14	0.36	0.01	0.01
Total Emissions (pounds/year)	280	720	20	20
Average Daily Emissions (pounds/day)[1]	**2.59**	**6.67**	**0.19**	**0.19**
Significance Threshold (pounds/day)	**54**	**54**	**82**	**54**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
[1] Calculated by dividing the total number of pounds by the total 108 working days of construction for Phase 3.
Calculations use rounded totals.
lbs = pounds
NO_X = oxides of nitrogen
PM_{10} = particulate matter 10 microns in diameter
$PM_{2.5}$ = particulate matter 2.5 microns in diameter
ROG = reactive organic gases
Source of thresholds: BAAQMD 2017
Source of emissions: CalEEMod Output (see Attachment A).

Operations

Full buildout of the project is anticipated to occur in 2026, while project operations are expected to begin as early as 2021. Emissions were assessed for full buildout operations in years 2021 (the earliest year of project operations) and 2026. Based on information provided by the Project Applicant, the truck trips that would be generated by the project would be equal to the existing truck trips that are currently working within the same service areas. Therefore, the truck trips that the project would be relocating are estimated and included in the baseline for the project's net increase in air pollutant emissions.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

Table 12: Operational Annual Emissions for Full Buildout Modeled in the Year 2021 (Unmitigated)

Emissions Source	Tons per Year			
	ROG	NO_X	PM_{10}	$PM_{2.5}$
Area	0.24	0.00	0.00	0.00
Energy	0.01	0.05	0.00	0.00
Mobile—Employee Vehicles	0.02	0.04	0.14	0.04
Mobile—Trucks	0.28	8.85	0.73	0.22
Mobile—Visitors/Deliveries	0.01	0.06	0.04	0.01
Total Project Annual Emissions	*0.55*	*9.00*	*0.93*	*0.28*
Existing Emissions (Emissions from Relocated Trucks)	0.27	8.59	0.71	0.22
Net Project Annual Emissions	**0.28**	**0.41**	**0.21**	**0.06**
Thresholds of Significance	**10**	**10**	**15**	**10**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
NO_X = oxides of nitrogen
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases
Source: CalEEMod output (see Attachment A).

Table 13: Operational Annual Emissions at Expected Full Buildout in 2026 (Unmitigated)

Emissions Source	Tons per Year			
	ROG	NO_X	PM_{10}	$PM_{2.5}$
Area	0.24	0.00	0.00	0.00
Energy	0.01	0.05	0.00	0.00
Mobile—Employee Vehicles	0.01	0.02	0.14	0.04
Mobile—Trucks	0.17	4.51	0.71	0.20
Mobile—Visitors/Deliveries	0.01	0.04	0.04	0.01

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

Emissions Source	Tons per Year			
	ROG	NO_X	PM_{10}	$PM_{2.5}$
Total Project Annual Emissions	*0.44*	*4.62*	*0.90*	*0.26*
Existing Emissions (Emissions from Relocated Trucks)	0.17	4.37	0.69	0.20
Net Project Annual Emissions	**0.27**	**0.25**	**0.21**	**0.06**
Thresholds of Significance	**10**	**10**	**15**	**10**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
NO_X = oxides of nitrogen
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases
Source: CalEEMod output (see Attachment A).

Table 14: 2021 Full Buildout Scenario - Operational Average Daily Emissions (Unmitigated)

Emissions Source	Tons per Year			
	ROG	NO_X	PM_{10}	$PM_{2.5}$
Net Project Annual Emissions[1] (tons/year)	0.28	0.41	0.21	0.06
Net Project Annual Emissions[2] (lbs/year)	568.28	820.6	427.98	123.38
Average Daily Emissions[3] (lbs/day)	**1.56**	**2.25**	**1.17**	**0.34**
BAAQMD Average Daily Emission Thresholds (lbs/day)	**54**	**54**	**82**	**54**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
[1] Tons per year are shown in Table 12.
[2] Pounds per year were calculated using the unrounded annual project operational emissions.
[3] The average daily construction emissions were estimated based on the total annual emissions divided by the number of days in 2021 (365 days).
NO_X = oxides of nitrogen
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases
Source: CalEEMod output (see Attachment A).

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

Table 15: 2026 Full Buildout Scenario - Operational Average Daily Emissions (Unmitigated)

Emissions Source	Tons per Year			
	ROG	NO_X	PM_{10}	$PM_{2.5}$
Net Project Annual Emissions[1] (tons/year)	0.27	0.25	0.21	0.06
Net Project Annual Emissions[2] (lbs/year)	539.98	492.6	426.18	121.58
Average Daily Emissions[3] (lbs/day)	**1.48**	**1.35**	**1.17**	**0.33**
BAAQMD Average Daily Emission Thresholds (lbs/day)	**54**	**54**	**82**	**54**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
[1] Tons per year are shown in Table 13.
[2] Pounds per year were calculated using the unrounded annual project operational emissions.
[3] The average daily construction emissions were estimated based on the total annual emissions divided by the number of days in 2026 (365 days).
NO_X = oxides of nitrogen
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases
Source: CalEEMod output (see Attachment A).

GREENHOUSE GAS EMISSIONS

This GHG emissions generation analysis is restricted to emissions of the GHGs identified as those of California concern by AB 32, which include CO_2, methane, nitrous oxide, HFC, PFC, and SF_6. GHG emissions discussed are presented in CO_2e emissions.

THRESHOLDS

The BAAQMD's project-level significance threshold for operational GHG generation included in the 2017 BAAQMD CEQA Guidelines are as follows:

- Compliance with a qualified GHG Reduction Strategy, or
- 1,100 MT CO_2e per year, or
- 4.6 MT CO_2e per service population (employees plus residents) per year.

It should be noted that the BAAQMD's thresholds of significance were established based on meeting the 2020 GHG targets presented in the AB 32 Scoping Plan. Although BAAQMD does not have an adopted threshold for 2030, BAAQMD is currently recommending evaluation of GHG significance based on 2030 GHG targets established in SB 32. For developments that would occur beyond 2020, the quantitative thresholds can be adjusted to determine a "substantial progress" threshold based on the SB 32 2030 GHG reduction goals.

Construction

Construction of the project would emit GHG emissions during construction from the construction equipment usage, worker vehicles travel, and hauling trips. Total GHG emissions generated during all construction activities were quantified and are presented in Table 16. In order to assess the construction emissions, the total emissions generated during construction were amortized based on the life of the development (30 years) and added to the operational emissions.

Table 16: Annual Operational Emissions (Unmitigated)

Construction Phase	Construction Activity	Construction Emissions (MT CO_2e/year)
Phase 1	Site Preparation	18
	Grading	69
	Paving	13
	Phase 1 Subtotal	*100*
Phase 2	Site Preparation	1
	Grading	10
	Building Construction	66
	Paving	3
	Architectural Coating	1
	Phase 2 Subtotal	*81*
Phase 3	Site Preparation	1
	Grading	6
	Building Construction	74
	Paving	3
	Architectural Coating	1
	Phase 3 Subtotal	*85*
Total Construction Emissions (All Phases)		***266***
Construction Emissions Amortized Over 30 Years		***9***

Note: Calculations use rounded numbers.
Source: CalEEMod Output (see Attachment A).

Operations

Operational GHG emissions by source are shown in Table 17. As previously indicated, the analysis includes construction emissions amortized over the life of the Project. Full buildout of the project is anticipated to occur in 2026, while project operations are expected to begin as early as 2021. Emissions were assessed for full buildout operations in years 2021 (the earliest year of project operations), 2026, and 2030. Based on information provided by the Project Applicant, the truck trips that would be generated by the project would be equal to the existing truck trips that are currently working within the same service areas. Therefore, the truck trips that the project would be relocating are estimated and included in the baseline for the project's net

increase in GHG emissions. The 2030 scenario summarized in Table 17 was prepared to assess the project's consistency with the SB 32 2030 target.

Table 17: Unmitigated Project Operational GHG Emissions (Full Buildout Scenarios)

Emission Source	Year 2021 Total Emissions (MT CO_2e per year)	Year 2026 Total Emissions (MT CO_2e per year)	Year 2030 Total Emissions (MT CO_2e per year)
Risks and Hazards at the maximally exposed sensitive receptor[1]			
Area	0	0	0
Energy	110	110	90
Mobile—Employee Vehicles	125	102	89
Mobile—Trucks	2,862	2,665	2,612
Mobile—Visitors/Deliveries	46	39	36
Waste	53	53	53
Water	5	5	4
Amortized Construction Emissions	9	9	9
Total Annual Project Emissions	*3,210*	*2,983*	*2,893*
Existing Emissions (Emissions from Relocated Trucks)	2,777	2,585	2,534
Net Project Annual Emissions	**433**	**398**	**359**
Applicable Thresholds of Significance (MT CO_2e/year)	**660**	**660**	**660**
Exceeds Significance Threshold?	**No**	**No**	**No**

Notes:
MT CO_2e = metric tons of carbon dioxide equivalent.
[1] Adjusted threshold to meet SB 32 2030 reduction goals.
Source of Emissions: CalEEMod Output (Attachment A).

As shown in Table 17, the project's total GHG annual emissions would not exceed applicable thresholds of significance in any scenario analyzed.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

HEALTH RISK ASSESSMENT

The following analysis provides the results of the HRA for the proposed project. An HRA was prepared for construction and operations of the project. The project location and 1,000-foot buffer are shown in Figure 2.

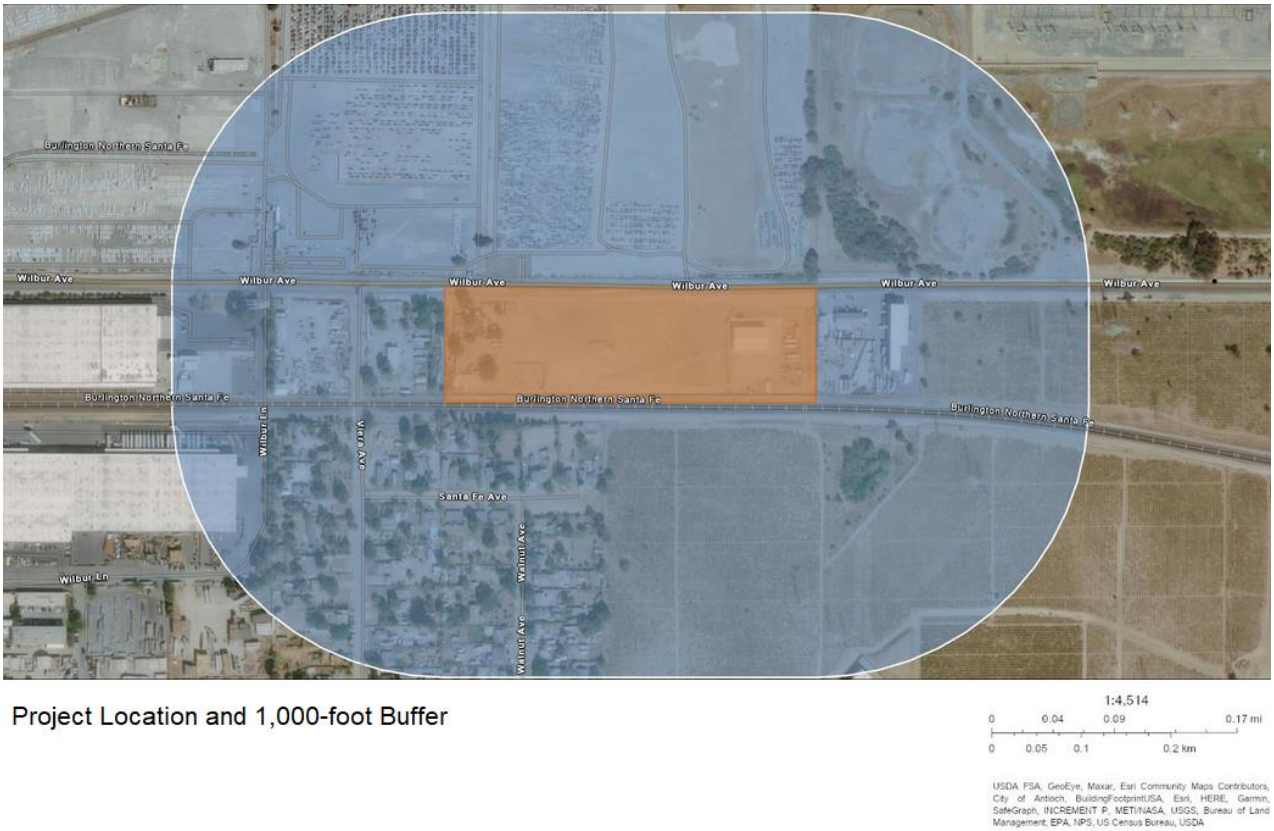

Figure 2 – Project Location and 1,000-foot Buffer

SENSITIVE RECEPTORS

Sensitive receptors are defined as facilities or land uses that include members of the population who are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of sensitive receptors are residences, schools, hospitals, and daycare centers. The California Air Resources Board (CARB) has identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65 years old, children under the age of 14, and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis.

Health risks were estimated for sensitive receptors located with 1,000 feet of the project boundary. A sensitive receptor is defined by the Bay Area Air Quality Management District (BAAQMD) as the following: “Facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples include schools, hospitals, and residential areas.” The nearest sensitive receptors are residents occupying the single-family houses located south and

southwest of the project site, the closest of which are located approximately 160 to 220 feet south of the project site.

HEALTH RISK ASSESSMENT

This HRA evaluates potential health risks associated with the generation of diesel particulate matter (DPM) during construction and operational activities associated with the proposed project.

Construction-Generated Air Toxics

Construction-related activities would result in temporary, short-term project-generated emissions of diesel particulate matter (DPM) from the exhaust of off-road, heavy-duty diesel equipment for site preparation (e.g., clearing, grading); soil hauling truck traffic; paving; application of architectural coatings; and other miscellaneous activities. For construction activity, DPM is the primary air toxic of concern. Particulate exhaust emissions from diesel-fueled engines (i.e., DPM) were identified as a toxic air contaminant (TAC) by the California Air Resources Board (CARB) in 1998.

A construction HRA was prepared for the proposed project and is included as Attachment D of this memorandum. To assess the project's total health risk impacts, impacts from both construction and operations were considered in this HRA; therefore, the construction HRA is summarized below.

The construction HRA evaluated DPM (represent as exhaust $PM_{2.5}$) and $PM_{2.5}$ (exhaust $PM_{2.5}$) emissions generated during construction of the proposed project and the related health risk impacts for sensitive receptors located within 1,000 feet of the project boundary. According to the BAAQMD, a project would result in a significant impact if it would individually expose sensitive receptors to TACs resulting in an increased cancer risk greater than 10.0 in one million, an increased non-cancer risk of greater than 1.0 on the hazard index (chronic or acute), or an annual average ambient $PM_{2.5}$ increase greater than 0.3 micrograms per liter ($\mu g/m^3$).

The project site is located within 1,000 feet from existing sensitive receptors that could be exposed to diesel emission exhaust during the construction period. The nearest sensitive receptors are residents occupying the single-family houses located south and southwest of the project site, the closest of which is located approximately 160 to 220 feet south of the project site. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to concentrations at the receptor locations of interest (i.e., receptors at nearby residences). The maximally exposed sensitive receptor was found to be an existing residence located approximately 160 feet south of the project site.

The location of the maximally exposed sensitive receptor is shown in Figure 3.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**



Figure 3 – Location of Maximally Exposed Individual (Maximally Exposed Sensitive Receptor)

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

Figure 4 shows a representation of the modeling parameters, including the project area (construction area source), modeled roadway segments, and sensitive receptors within 1,000 feet of the project boundary.

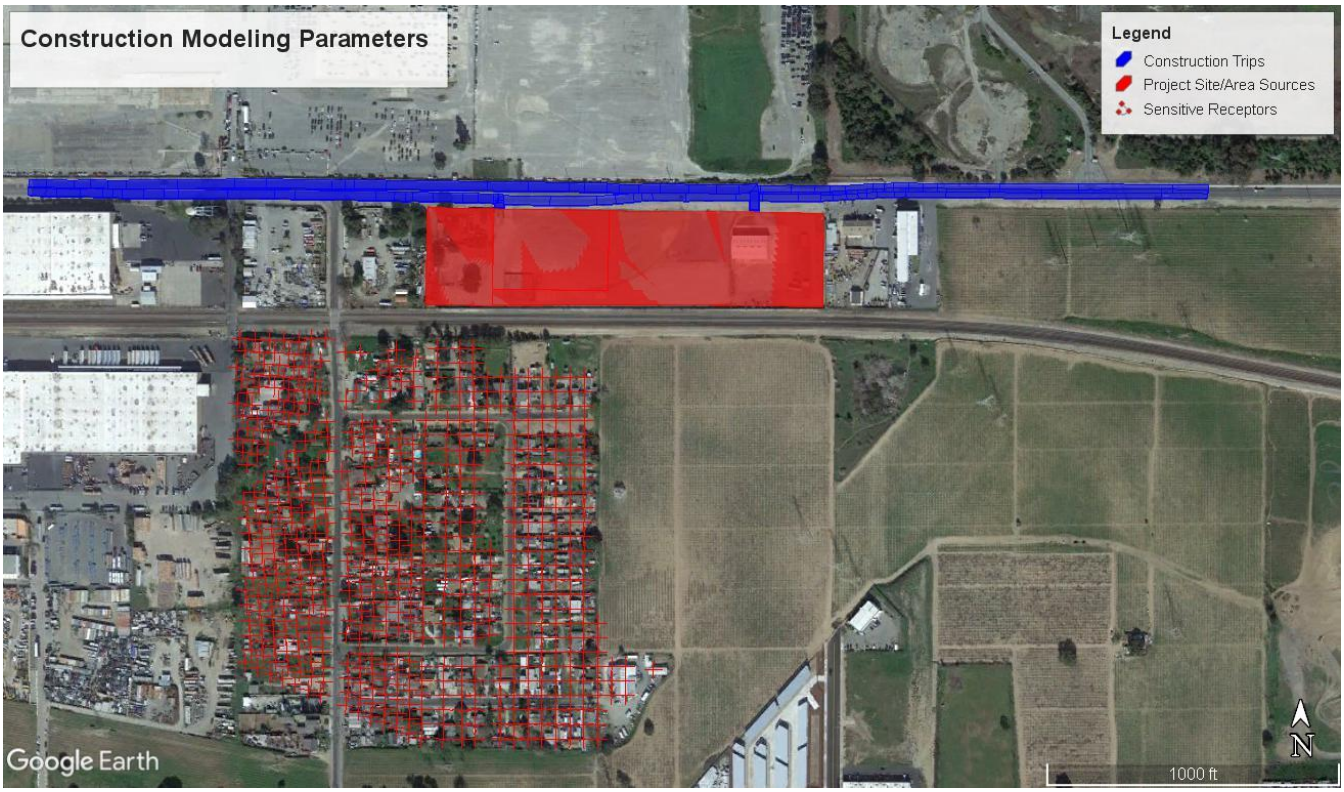

Figure 4 – Construction HRA Modeling Parameters

Figure 5 shows a representation of the three area sources used to represent the three phases of construction.

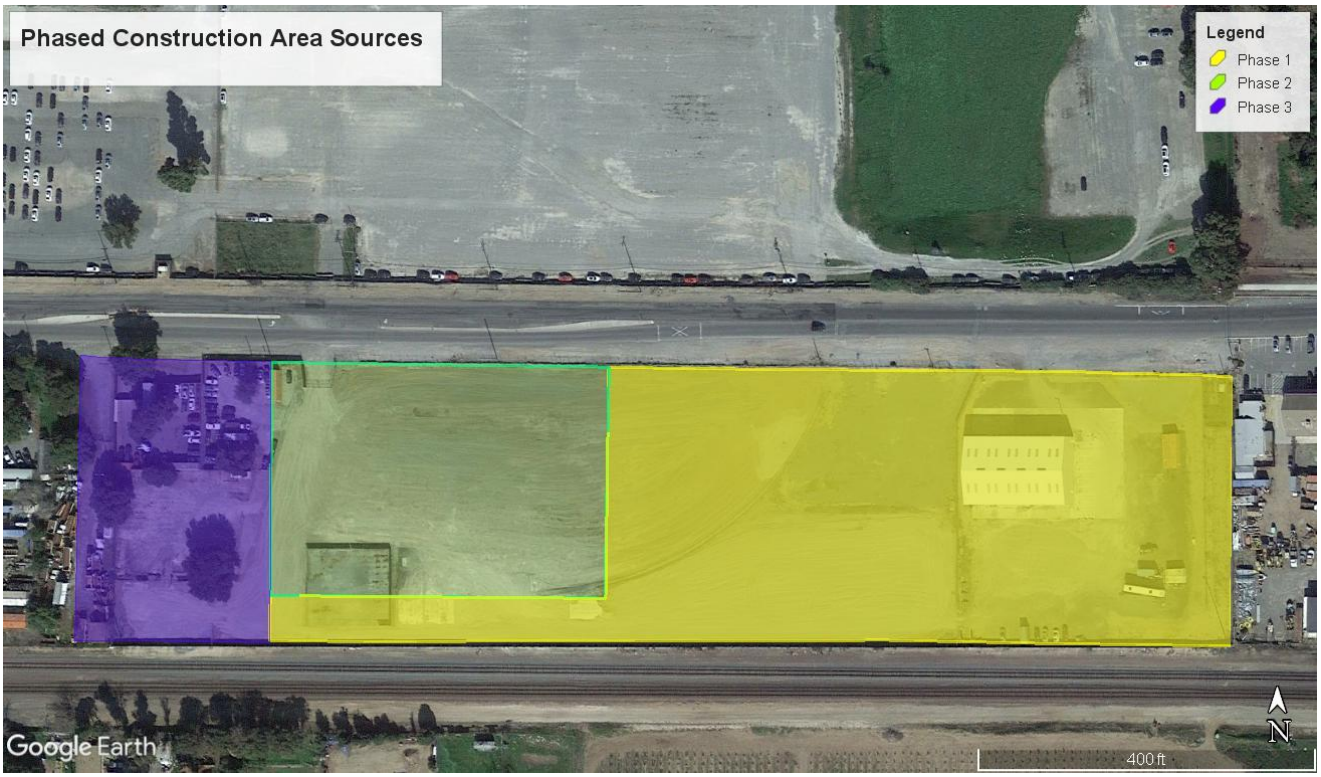

Figure 5 – Construction HRA Modeling Parameters – Construction Phases

Results of the construction health risk analysis are summarized in Table 18. The complete construction HRA prepared for the proposed project, including calculations and AERMOD output data used in the construction HRA, are included in Attachment D of this memorandum.

Table 18 - Health Risks from Project Construction at the Maximally Exposed Sensitive Receptor

Health Impact Metric	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Risks and Hazards at the maximally exposed sensitive receptor[1]			
Risks and Hazards: Infant	6.00	0.01	0.06
Risks and Hazards: Child	1.61	0.01	0.06
Risks and Hazards: Adult	0.18	0.01	0.06

Health Impact Metric	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Threshold	**10**	**1**	**0.3**
Exceeds Threshold?	**No**	**No**	**No**

Notes:

[1] The maximally exposed sensitive receptor is located at an existing residence located approximately 160 feet south of the project site.

[2] Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as $PM_{2.5}$ exhaust) by the REL of 5 $\mu g/m^3$.

Source: Attachment D

Cumulative Health Risk Assessment During Project Construction

The BAAQMD recommends assessing the potential cumulative impacts from sources of TACs within 1,000 feet of a project. A cumulative HRA was performed that examined the cumulative impacts of the Project's construction emissions and sources of TAC emissions within 1,000 feet of the Project. For a project-level analysis, BAAQMD provides several tools for use in screening potential sources of TACs. The BAAQMD-provided tools that were used to assess the potential cumulative impacts from TACs during Project construction at the maximally exposed sensitive receptor are described below.

- **Stationary Source Risk and Hazard Screening Tools.** The BAAQMD prepared a Geographic Information System (GIS) tool with the location of permitted sources. For each emissions source, the BAAQMD provides conservative estimates of cancer risk and $PM_{2.5}$ concentrations. Based on information from the GIS tool, there are no BAAQMD-permitted stationary sources within 1,000 feet of the project site.

- **Health Risks for Local Roadways.** The BAAQMD pre-calculated concentrations and the associated potential cancer risks and $PM_{2.5}$ concentration increases for each county within their jurisdiction for roadways that carry at least 30,000 average daily trips. For certain areas, the BAAQMD also included local roadways that meet BAAQMD's "major roadway" criteria of 10,000 vehicles or 1,000 trucks per day. The latest available screening tool is in the form of a GIS raster file.

- **Freeway Screening Analysis Tool.** The BAAQMD prepared a GIS raster file that contains pre-estimated cancer risk and $PM_{2.5}$ concentration increases for highways within the Bay Area.

- **Rail Screening Tool.** The BAAQMD prepared a GIS raster file that contains estimated cancer risks and $PM_{2.5}$ concentrations from railroad operations at any point within the Air Basin.

The cumulative health risk results, including health risks from the existing TAC sources, are summarized during project construction in Table 19. Cumulative health risk results shown therein are representative of the health risks to the maximally exposed sensitive receptor which would experience the highest concentration of pollutants.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

Table 19: Summary of the Cumulative Health Impacts at the Maximally Exposed Individual during Project Construction

Source	Cancer Risk in One Million	Chronic Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Project Construction			
Project Construction – Unmitigated	5.9968	0.0116	0.0580
Existing Sources			
Existing Major Local Roadways	0.0810	ND	0.0015
Existing Highways	0.8178	ND	0.0158
Existing Railways	15.3066	ND	0.0224
Cumulative Health Risks at the Maximally Exposed Sensitive Receptor[1]			
Cumulative Total with Unmitigated Project Construction	**22.20**	**0.0116**	**0.10**
BAAQMD's Cumulative Thresholds of Significance	**100**	**10**	**0.8**
Threshold Exceedance in Unmitigated Scenario?	**No**	**No**	**No**

Notes:

ND = no data available

[1] The maximally exposed sensitive receptor is located at an existing residence located approximately 160 feet south of the project site.

Source: Appendix B and Appendix C

As noted in Table 19, the cumulative impacts from construction of the project and existing sources of TACs would be less than the BAAQMD's cumulative thresholds of significance.

Air Toxics Generated during Operations

The model was run to obtain annual average concentration in micrograms per cubic meter [µg/m3] at nearby sensitive receptors. Receptor locations within the AERMOD model were placed at locations of existing sensitive receptor sites within 1,000 feet of the project boundary and were consistent with the receptors assessed in the project-specific construction HRA.

A health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 30-year exposure scenario. The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the U.S. EPA Human Health Evaluation Manual (1991) and the Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual.

DPM

The project would primarily generate passenger vehicle trips from visitors traveling to and from the project site; however, the project would also be served with truck deliveries. The main source of DPM from the long-term operations of the proposed project would be from combustion of diesel fuel in diesel-powered engines in on-road delivery trucks and other visiting diesel vehicles. Motor vehicle emissions refer to DPM exhaust emissions from the motor vehicle traffic that would travel to and from the project site, as well as within the project site, each day. An estimate of the number of vehicle trips that the project would generate was

prepared by traffic impact study. The project is expected to generate 315 total daily trips prior to any reductions from existing operations. In order to provide conservative analysis, the assumption of 315 daily trips was used to estimate DPM exhaust emissions generated during operations of the proposed project.

Table 20: Project Trips (Daily)

Category	Daily Trips (Weekday Trips)
Employee Vehicles	138
Trucks	130
Visitors/Deliveries	47
Total	**315**

Source: Stantec 2020.

The vehicle fleet mix for trucks would consist of Light-Heavy-Duty truck (LHDT), Medium-Heavy-Duty truck (MHDT), and Heavy-Heavy-Duty truck (HHDT). Emission factors are assigned to the expected vehicle mix as a function of vehicle age, vehicle class, speed, and fuel type. The operational fleet mixes used to assess emissions from the proposed project are included in Attachment D.

Figure 6 shows a representation of the modeling parameters, including modeled off-site roadway segments, modeled on-site passenger vehicle travel, and modeled on-site truck vehicle travel, and modeled truck idling.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**



Figure 6 – Operational HRA Modeling Parameters

Each operational emission source to be evaluated requires geometrical and emission release specifications for use in the air dispersion model. The emission source configurations applied in this assessment of operational DPM emissions are shown in Table 21.

Table 21: Summary of Select Operational Emission Source Configurations

Emission Source Type	Relevant Assumptions
On-site Truck Traffic	• Configuration: line volume sources • Release height: 10.2 feet (3.1 meters) • Vehicle Speed: 10 mph • Vehicle types: heavy-heavy duty (HHDT), medium heavy duty (MHDT), and light-heavy duty (LHDT) delivery trucks
On-site Passenger Vehicle Traffic	• Configuration: line volume sources • Release height: 1.53 meters • Vehicle Speed: 15 mph • Vehicle types: LDA (Light Duty Auto), LDT1 (Light Duty Truck), LDT2, and MDV (Medium Duty Vehicle)
On-site Truck Idling	• Configuration: line volume source • Release height: 10.2 feet (3.1 meters)

Emission Source Type	Relevant Assumptions
	• Vehicle type: HHDT diesel trucks • Emission factors: EMFAC 2017 • Number of Idling Diesel Vehicles per day: 41
Off-site Passenger Vehicle and Truck Traffic	• Configuration: line volume source • Four travel links from the project to outlying areas within 1,000 feet of the project site were identified based and emissions were estimated along each travel link. • Vehicle speeds: 35 mph

Source: Attachment C

Operational emissions for the proposed project were assessed assuming the first year of operations would occur in 2021. Exhaust emissions of DPM (as $PM_{2.5}$ exhaust) were estimated using EMFAC2014. EMFAC2014 was selected for consistency purposes. Specifically, EMFACE2014 is the database that informs the current version of CalEEMod. The emission factors for DPM emissions were estimated using EMFAC2014 emission factors obtained for the following years: 2021, 2025, 2030, 2040, and 2050. Data for the years between 2021-2050 were accounted for by interpolating data for the years previously noted. Emission factors from the 2050 operational year were used to estimate years beyond 2050. To provide a conservative analysis, it was assumed that the proposed project could operate for a full year in the 2021 operational year. The emission factors, AERMOD data, and emission estimation spreadsheets used to estimate motor vehicle DPM emissions during project operations are provided in Attachment C.

RISK AND HAZARD ASSESSMENT

Cancer Risk

Based on the OEHHA methodology, the residential inhalation cancer risk from the annual average DPM concentrations are calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor (ASF), the frequency of time spent at home (for residents only), and the exposure duration divided by averaging time, to yield the excess cancer risk. These factors are discussed in more detail below. Cancer risk must be separately calculated for specified age groups, because of age differences in sensitivity to carcinogens and age differences in intake rates (per kg body weight). Separate risk estimates for these age groups provide a health-protective estimate of cancer risk by accounting for greater susceptibility in early life, including both age-related sensitivity and amount of exposure.

Exposure through inhalation (Dose-air) is a function the breathing rate, the exposure frequency, and the concentration of a substance in the air. For residential exposure, the breathing rates are determined for specific age groups, so Dose-air is calculated for each of these age groups, 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years. To estimate cancer risk, the dose was estimated by applying the following formula to each ground-level concentration:

$$\text{Dose-air} = (C_{air} * \{BR/BW\} * A * EF * 10^{-6})$$

Where:

Dose-air	=	dose through inhalation (mg/kg/day)
Cair	=	air concentration (µg/m3) from air dispersion model
{BR/BW}	=	daily breathing rate normalized to body weight (L/kg body weight – day) (361 L\kg BW-day for 3rd Trimester, 1,090 L/kg BW-day for 0<2 years, 745 L/kg BW-day for 2<9 years, 745 L/kg BW-day for 2<16 years, 261 L/kg BW-day for 16<30 years, and 233 L/kg BW-day 16<70 years)
A	=	Inhalation absorption factor (unitless [1])
EF	=	exposure frequency (unitless), days/365 days (0.96 [approximately 350 days per year])
10^{-6}	=	conversion factor (micrograms to milligrams, liters to cubic meters)

OEHHA developed ASFs to take into account the increased sensitivity to carcinogens during early-in-life exposure. In the absence of chemical-specific data, OEHHA recommends a default ASF of 10 for the third trimester to age 2 years, an ASF of 3 for ages 2 through 15 years to account for potential increased sensitivity to carcinogens during childhood and an ASF of 1 for ages 16 through 70 years.

Fraction of time at home (FAH) during the day is used to adjust exposure duration and cancer risk from a specific facility's emissions, based on the assumption that exposure to the facility's emissions are not occurring away from home. The following FAH values were used in this assessment:

- From the third trimester to age <2 years: 100 percent (the OEHHA-recommended value is 85 percent of time is spent at home; however, 100 percent was assumed in order to present a conservative analysis);
- From age 2 through <16 years: 100 percent (the OEHHA-recommended value is 72 percent of time is spent at home; however, 100 percent was assumed in order to present a conservative analysis); and
- From age 16 years and greater: 73 percent (the OEHHA-recommended value is 73 percent of time is spent at home).

To estimate the cancer risk, the dose is multiplied by the cancer potency factor, the ASF, the exposure duration divided by averaging time, and the frequency of time spent at home (for residents only):

$Risk_{inh\text{-}res} = (Dose_{air} * CPH * ASF * ED/AT * FAH)$

Where:

$Risk_{inh\text{-}res}$	=	residential inhalation cancer risk (potential chances per million)
$Dose_{air}$	=	daily dose through inhalation (mg/kg-day)
CPF	=	inhalation cancer potency factor (mg/kg-day^{-1})
ASF	=	age sensitivity factor for a specified age group (unitless)
ED	=	exposure duration (in years) for a specified age group (0.25 years for 3rd trimester, 2 years for 0<2, 7 years for 2<9, 14 years for 2<16, 14 years for 16<30, 54 years for 16-70)
AT	=	averaging time of lifetime cancer risk (years)
FAH	=	fraction of time spent at home (unitless)

Chronic Non-Cancer Hazard

Non-cancer chronic impacts are calculated by dividing the annual average concentration by the Reference Exposure Level (REL) for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. The following equation was used to determine the non-cancer risk:

Hazard Quotient = Ci/RELi

Where:

Ci	=	Concentration in the air of substance i (annual average concentration in $\mu g/m^3$)
RELi	=	Chronic noncancer Reference Exposure Level for substance i ($\mu g/m^3$)

HEALTH RISK ANALYSIS THRESHOLDS

In order to determine whether a proposed project would cause a significant effect on the environment, the impact of the project must be determined by examining the types and levels of air toxics generated and the associated impacts on factors that affect air quality. While the final determination of significance thresholds is within the purview of the lead agency pursuant to the State CEQA Guidelines, the BAAQMD's *Air Toxics NSR Program Health Risk Assessment Guidelines* (2016) recommends that the following air pollution thresholds be used by lead agencies in determining significance related to the proposed project. The thresholds for air toxic emissions are as follows:

- Cancer Risk: Emit carcinogenic or toxic contaminants that exceed the maximum individual cancer risk of 10 in one million.
- Non-Cancer Risk: Emit toxic contaminants that exceed the maximum hazard quotient of 1 in one million.

Cancer risk is expressed in terms of expected incremental incidence per million population. The BAAQMD has established an incidence rate of 10 persons per million as the maximum acceptable incremental cancer risk. This threshold serves to determine whether an individual development project has a potentially significant development-specific and cumulative impact. The 10 in one million standard is a health-protective significance threshold. A risk level of 10 in one million implies a likelihood that up to 10 persons, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time. This risk would be an excess cancer that is in addition to any cancer risk borne by a person not exposed to these air toxics.

The BAAQMD has also established non-carcinogenic risk parameters for use in HRAs. Noncarcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index less of than one (1.0) means that adverse health effects are not expected. Within this analysis, non-carcinogenic exposures of less than 1.0 are considered less than significant.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

IMPACT ASSESSMENT

An analysis of DPM from construction and operations of the proposed project was performed using the EPA-approved AERMOD model. AERMOD version 19191 was used to for the assessment of DPM from project operations. Complete calculations for the construction and operational HRA are included as Attachment D of this memorandum.

Figure 7 shows a representation of the operational modeling results.

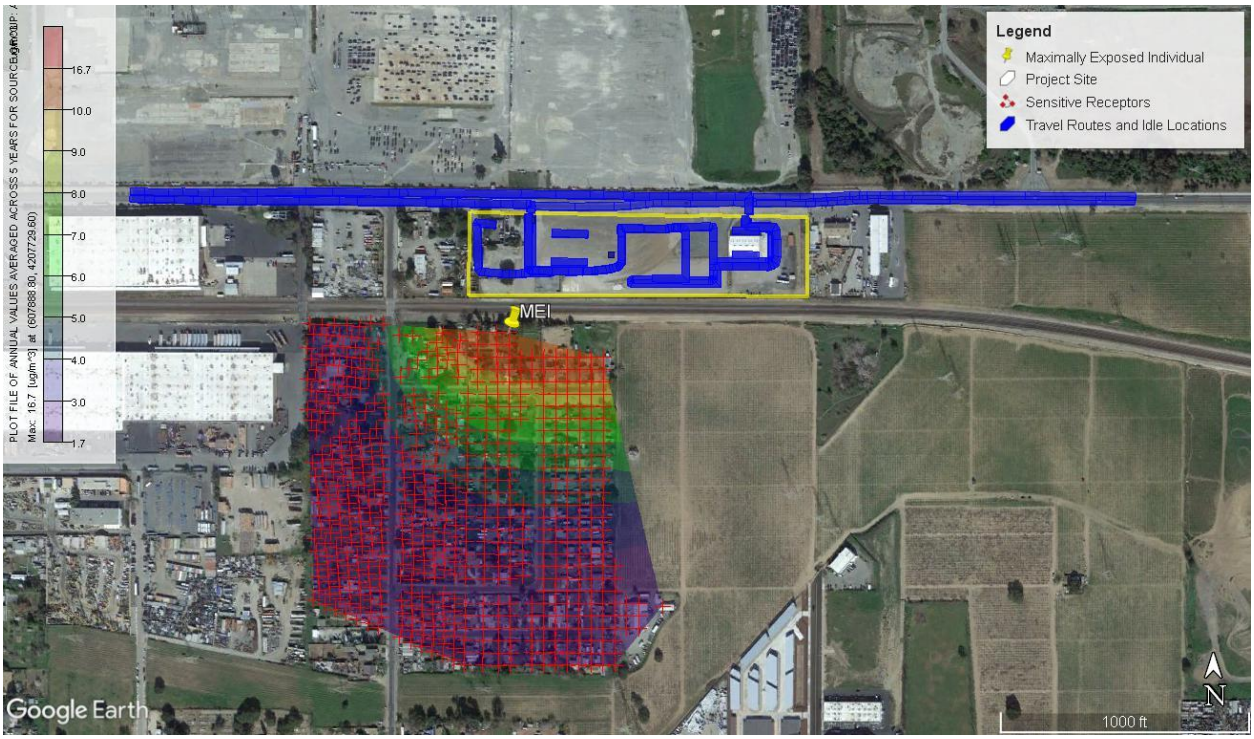

Figure 7 – Graphic Representation of Operational HRA Results

Carcinogenic Risk

An operational HRA was performed to calculate the cancer health risks and the non-hazard indices for sensitive receptors within 1,000 feet of the project boundary. Independently of the construction HRA, it was determined that the maximally exposed sensitive receptor during operations of the proposed project would be an existing residence located approximately 160 feet south of the project site. Therefore, the maximally exposed sensitive receptor during construction and operation of the project would be at the same existing residence (see Figure 3).

The calculated carcinogenic risk at the maximally exposed sensitive receptor as a result of exhaust DPM from diesel vehicle travel and diesel truck idling from operations of the proposed project and exhaust DPM from project construction are summarized in Table 22.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

Table 22 - Health Risks at the Maximally Exposed Sensitive Receptor from Construction and Operations DPM

Health Impact Metric	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Risks and Hazards at the maximally exposed sensitive receptor[1]			
30-Year Exposure starting in the Infant Scenario	6.86	0.01	0.04
Threshold	**10**	**1**	**0.3**
Exceeds Threshold?	**No**	**No**	**No**

Notes:
[1] The maximally exposed sensitive receptor is located at an existing residence located approximately 160 feet south of the project site.
[2] Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as $PM_{2.5}$ exhaust) by the REL of 5 $\mu g/m^3$.
Source: Attachment D

Table 23: Summary of the Cumulative Health Impacts at the Maximally Exposed Individual during Project Operations

Source	Cancer Risk in One Million	Chronic Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Project DPM			
Project Construction and Operations	6.8617	0.0076	0.0378
Existing Sources			
Existing Major Local Roadways	0.0810	ND	0.0015
Existing Highways	0.8178	ND	0.0158
Existing Railways	15.3066	ND	0.0224
Cumulative Health Risks at the Maximally Exposed Sensitive Receptor[1]			
Cumulative Total with Unmitigated Project Construction	**23.07**	**0.01**	**0.08**
BAAQMD's Cumulative Thresholds of Significance	**100**	**10**	**0.8**
Threshold Exceedance in Unmitigated Scenario?	**No**	**No**	**No**

Notes:
ND = no data available
[1] The maximally exposed sensitive receptor is located at an existing residence located approximately 160 feet south of the project site.
Source: Appendix B and Appendix C.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

ENERGY

This Energy Consumption Summary documents the results of the project-specific energy consumption estimates prepared for the proposed Mt. Diablo Resource Recovery Truck Maintenance Facility Project (project) at 2600 Wilbur Avenue in the City of Antioch. Calculations are included as Attachment E to this memorandum. As noted in Attachment E, the calculations are based on project-specific data obtained from the California Emissions Estimator Model (CalEEMod) files presented in the Air Quality and Greenhouse Gas Emissions Summary dated December 15, 2020.

PROJECT CONSTRUCTION

Off-Road Equipment

The proposed project is anticipated to be constructed in three phases, with Phase 1 breaking ground June 1, 2021 and Phase 3 completed in October 2026. Table 24 provides estimates of the project's construction fuel consumption from off-road construction equipment.

Table 24: Construction Off-Road Fuel Consumption

Phase	Construction Activity	Fuel Consumption (Gallons)
Phase 1	Site Preparation	703.39
	Grading	3,563.1
	Paving	375.87
Phase 2	Site Preparation	18.46
	Grading	60.18
	Building Construction	1,941.07
	Paving	105.15
	Architectural Coating	31.02
Phase 3	Site Preparation	18.46
	Grading	60.18
	Building Construction	1,941.07
	Paving	105.15
	Architectural Coating	31.02
	Total	**8,954.1**

Source: Attachment E

As shown in Table 24, construction activities associated with the proposed project would be estimated to consume 8,954 gallons of diesel fuel. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in other parts of the state.

On-Road Vehicles

On-road vehicles for construction workers, vendors, and haulers would require fuel for travel to and from the site during construction. Table 25 provides an estimate of the total on-road vehicle fuel usage during construction. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in other parts of the state. Therefore, it is expected that construction fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than at other construction sites in the region.

Table 25: Construction On-Road Fuel Consumption

Project Phase	Total Annual Fuel Consumption (gallons)
Phase 1	941.5
Phase 2	1,812.9
Phase 3	2,345.4
Total Construction On-Road Fuel Consumption	**5,099.8**

Source: Attachment E

Other Construction Energy Consumption

Other equipment could include construction lighting, field services (office trailers), and electrically driven equipment such as pumps and other tools. As on-site construction activities would be restricted to permissible construction hours, it is anticipated that the use of construction lighting would be minimal. Singlewide mobile office trailers, which are commonly used in construction staging areas, generally range in size from 160 square feet to 720 square feet. Table 26 shows the energy consumption estimated for a typical 720-square-foot during construction.

Table 26: Construction Trailer

Project Phase	Kilowatt hours per year (kWh/yr)
Phase 1	1,241
Phase 2	2,717
Phase 3	2,717
Total	**6,674**

PROPOSED PROJECT OPERATIONS

Transportation Energy Demand

Table 27 provides an estimate of the daily and annual fuel consumed by vehicles traveling to and from the project site. These estimates were derived using the same assumptions used in the operational air quality analysis for the proposed project.

Table 27: Long-Term Operational Vehicle Fuel Consumption

Project Component	Annual VMT	Average Fuel Economy (miles/gallon)	Total Annual Fuel Consumption (gallons)
Employee Vehicles	389,822	26.58	14,666
Trucks	1,654,900	5.85	282,737
Visitors/Deliveries	117,615	25.50	4,613
		Total	**302,016**

Notes:
VMT = vehicle miles traveled
Source: Attachment E

As shown in

Table 27, annual vehicular fuel consumption is estimated to be 302,016 gallons of both gasoline and diesel fuel.

Building Energy Demand

As shown in Attachment A, the proposed project is estimated to demand 404,358 kilowatt hours of electricity and 1,045,050 kilo-British Thermal Units of natural gas, respectively, on an annual basis.

EXISTING OPERATIONS

Transportation Energy Demand

Table 28: Existing Operational Vehicle Fuel Consumption (Trucks Being Relocated)

Project Component	Annual VMT	Average Fuel Economy (miles/gallon)	Total Annual Fuel Consumption (gallons)
Trucks	1,605,500	5.85	274,297

Notes:
VMT = vehicle miles traveled
Source: Attachment E

Building Energy Demand

As shown in Attachment E, the existing building on-site building to remain is estimated to demand 34,347 kilowatt hours of electricity and 33,763 kilo-British Thermal Units of natural gas, respectively, on an annual basis. As this building is to remain as part of the proposed project, the building is also included in the energy estimates presented for the proposed project.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project - Air Quality and Health Risk Assessment Memorandum**

REFERENCES:

BAAQMD (Bay Area Air Quality Management District). 2016. Air Toxics NSR Program Health Risk Assessment Guidelines.

BAAQMD (Bay Area Air Quality Management District). 2017. California Environmental Quality Act Air Quality Guidelines.

OEHHA (California Environmental Protection Agency's Office of Environmental Health Hazard Assessment). 2015. Guidance Manual for Preparation of Health Risk Assessments.

OEHHA (California Environmental Protection Agency's Office of Environmental Health Hazard Assessment). 2003. The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments.

U.S. EPA (United States Environmental Protection Agency). 1991. Human Health Evaluation Manual.

ATTACHMENT A

CalEEMod Results

CalEEMod Output

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Existing/Relocated Truck Emissions (2030 Scenario)—Annual **366**

Unmitigated Construction - Phase 1

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.73	Acre	0.73	31,798.80	0
Other Non-Asphalt Surfaces	134.62	1000sqft	3.09	33,655.00	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated Construction - Phase 1 - Contra Costa County, Annual

Project Characteristics - Unmitigated Construction - Phase 1
Adjusted CO2e to reflect updated factors and compliance with RPS (see the CO2e Intensity Factor Adjustments sheet for source and calculations).

Land Use - Phase 1 would disturb approximately 7.55 acres of the site to construct 3.5 acres of parking, an access road, utility improvements, and a truck fueling station. Improvements to the existing 9,730-square-foot warehouse building would be completed.

Construction Phase - Phase 1 construction schedule
The construction schedule and number of workdays were obtained from the project description; slight modifications were made to the dates in order to retain the correct number of workdays in CalEEMod.

Off-road Equipment - Construction equipment usage details obtained from the project description.

Off-road Equipment - Construction equipment usage details obtained from the project description.

Off-road Equipment -

Trips and VMT - 12 workers 2.5 trips per worker
Additional vendor trips added to paving
Adddional haul 2 per piece of equipment

Grading - Phase 1: 3,755 cubic yards to be exported

Vehicle Trips - Construction run only - zeroed out operational inputs

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment - Construction run only - zeroed out operational inputs

Energy Use - Construction run only - zeroed out operational inputs

Water And Wastewater - Construction run only - zeroed out operational inputs

Solid Waste - Construction run only - zeroed out operational inputs

Construction Off-road Equipment Mitigation - Compliance with BAAQMD Best Management Practices threshold for fugitive dust; recommended measures from BAAQMD's Construction Mitigation Measures for all proposed projects.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	0.35	0.00

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tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	1.07	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	0.07	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	3.40	0.00
tblGrading	MaterialExported	0.00	3,755.00
tblLandscapeEquipment	NumberSummerDays	180	1
tblLandUse	LandUseSquareFeet	134,620.00	33,655.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblSolidWaste	SolidWasteGenerationRate	1.08	0.00
tblSolidWaste	SolidWasteGenerationRate	9.15	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	HaulingTripNumber	469.00	481.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00

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tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblTripsAndVMT	WorkerTripNumber	5.00	30.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	26,563.78	0.00
tblWater	IndoorWaterUseRate	2,250,062.50	0.00
tblWater	OutdoorWaterUseRate	16,281.02	0.00

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0726	0.7572	0.4600	1.1100e-003	0.1880	0.0306	0.2186	0.0886	0.0282	0.1167	0.0000	99.7971	99.7971	0.0250	0.0000	100.4212
Maximum	**0.0726**	**0.7572**	**0.4600**	**1.1100e-003**	**0.1880**	**0.0306**	**0.2186**	**0.0886**	**0.0282**	**0.1167**	**0.0000**	**99.7971**	**99.7971**	**0.0250**	**0.0000**	**100.4212**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0726	0.7572	0.4600	1.1100e-003	0.0905	0.0306	0.1211	0.0414	0.0282	0.0696	0.0000	99.7970	99.7970	0.0250	0.0000	100.4211
Maximum	**0.0726**	**0.7572**	**0.4600**	**1.1100e-003**	**0.0905**	**0.0306**	**0.1211**	**0.0414**	**0.0282**	**0.0696**	**0.0000**	**99.7970**	**99.7970**	**0.0250**	**0.0000**	**100.4211**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**51.87**	**0.00**	**44.61**	**53.20**	**0.00**	**40.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.8284	0.8284
		Highest	0.8284	0.8284

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0630	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0630**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0630	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0630**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2021	6/14/2021	5	10	
2	Grading	Grading	6/15/2021	7/12/2021	5	20	
3	Paving	Paving	7/13/2021	8/9/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 7.32

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	0	0.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	30.00	0.00	14.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	30.00	0.00	481.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	30.00	8.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.8700e-003	3.7000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5243	0.5243	2.0000e-005	0.0000	0.5248
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0067	1.0067	2.0000e-005	0.0000	1.0073
Total	**5.1000e-004**	**2.1900e-003**	**3.8100e-003**	**2.0000e-005**	**1.3100e-003**	**2.0000e-005**	**1.3200e-003**	**3.5000e-004**	**2.0000e-005**	**3.6000e-004**	**0.0000**	**1.5309**	**1.5309**	**4.0000e-005**	**0.0000**	**1.5321**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0407**	**0.0102**	**0.0509**	**0.0223**	**9.4000e-003**	**0.0317**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.8700e-003	3.7000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5243	0.5243	2.0000e-005	0.0000	0.5248
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0067	1.0067	2.0000e-005	0.0000	1.0073
Total	**5.1000e-004**	**2.1900e-003**	**3.8100e-003**	**2.0000e-005**	**1.3100e-003**	**2.0000e-005**	**1.3200e-003**	**3.5000e-004**	**2.0000e-005**	**3.6000e-004**	**0.0000**	**1.5309**	**1.5309**	**4.0000e-005**	**0.0000**	**1.5321**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0870	0.0000	0.0870	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0382	0.4261	0.2636	5.6000e-004		0.0176	0.0176		0.0162	0.0162	0.0000	49.0355	49.0355	0.0159	0.0000	49.4320
Total	**0.0382**	**0.4261**	**0.2636**	**5.6000e-004**	**0.0870**	**0.0176**	**0.1046**	**0.0360**	**0.0162**	**0.0522**	**0.0000**	**49.0355**	**49.0355**	**0.0159**	**0.0000**	**49.4320**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8700e-003	0.0644	0.0128	1.9000e-004	4.0700e-003	2.0000e-004	4.2800e-003	1.1200e-003	1.9000e-004	1.3100e-003	0.0000	18.0117	18.0117	7.9000e-004	0.0000	18.0314
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.5000e-004	6.8700e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	2.0134	2.0134	5.0000e-005	0.0000	2.0145
Total	**2.8000e-003**	**0.0650**	**0.0196**	**2.1000e-004**	**6.4500e-003**	**2.2000e-004**	**6.6700e-003**	**1.7500e-003**	**2.0000e-004**	**1.9600e-003**	**0.0000**	**20.0250**	**20.0250**	**8.4000e-004**	**0.0000**	**20.0459**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0391	0.0000	0.0391	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0382	0.4261	0.2636	5.6000e-004		0.0176	0.0176		0.0162	0.0162	0.0000	49.0355	49.0355	0.0159	0.0000	49.4320
Total	**0.0382**	**0.4261**	**0.2636**	**5.6000e-004**	**0.0391**	**0.0176**	**0.0568**	**0.0162**	**0.0162**	**0.0324**	**0.0000**	**49.0355**	**49.0355**	**0.0159**	**0.0000**	**49.4320**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8700e-003	0.0644	0.0128	1.9000e-004	4.0700e-003	2.0000e-004	4.2800e-003	1.1200e-003	1.9000e-004	1.3100e-003	0.0000	18.0117	18.0117	7.9000e-004	0.0000	18.0314
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.5000e-004	6.8700e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	2.0134	2.0134	5.0000e-005	0.0000	2.0145
Total	**2.8000e-003**	**0.0650**	**0.0196**	**2.1000e-004**	**6.4500e-003**	**2.2000e-004**	**6.6700e-003**	**1.7500e-003**	**2.0000e-004**	**1.9600e-003**	**0.0000**	**20.0250**	**20.0250**	**8.4000e-004**	**0.0000**	**20.0459**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9200e-003	0.0519	0.0581	9.0000e-005		2.5100e-003	2.5100e-003		2.3100e-003	2.3100e-003	0.0000	8.2565	8.2565	2.6700e-003	0.0000	8.3232
Paving	5.5400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0105**	**0.0519**	**0.0581**	**9.0000e-005**		**2.5100e-003**	**2.5100e-003**		**2.3100e-003**	**2.3100e-003**	**0.0000**	**8.2565**	**8.2565**	**2.6700e-003**	**0.0000**	**8.3232**

3.4 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.4000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1498	0.1498	1.0000e-005	0.0000	0.1500
Vendor	2.6000e-004	8.2700e-003	2.1000e-003	2.0000e-005	5.3000e-004	2.0000e-005	5.4000e-004	1.5000e-004	2.0000e-005	1.7000e-004	0.0000	2.0680	2.0680	1.0000e-004	0.0000	2.0704
Worker	9.3000e-004	6.5000e-004	6.8700e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	2.0134	2.0134	5.0000e-005	0.0000	2.0145
Total	**1.2100e-003**	**9.4600e-003**	**9.0800e-003**	**4.0000e-005**	**2.9400e-003**	**4.0000e-005**	**2.9700e-003**	**7.9000e-004**	**3.0000e-005**	**8.3000e-004**	**0.0000**	**4.2312**	**4.2312**	**1.6000e-004**	**0.0000**	**4.2349**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9200e-003	0.0519	0.0581	9.0000e-005		2.5100e-003	2.5100e-003		2.3100e-003	2.3100e-003	0.0000	8.2565	8.2565	2.6700e-003	0.0000	8.3232
Paving	5.5400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0105**	**0.0519**	**0.0581**	**9.0000e-005**		**2.5100e-003**	**2.5100e-003**		**2.3100e-003**	**2.3100e-003**	**0.0000**	**8.2565**	**8.2565**	**2.6700e-003**	**0.0000**	**8.3232**

3.4 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.4000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1498	0.1498	1.0000e-005	0.0000	0.1500
Vendor	2.6000e-004	8.2700e-003	2.1000e-003	2.0000e-005	5.3000e-004	2.0000e-005	5.4000e-004	1.5000e-004	2.0000e-005	1.7000e-004	0.0000	2.0680	2.0680	1.0000e-004	0.0000	2.0704
Worker	9.3000e-004	6.5000e-004	6.8700e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	2.0134	2.0134	5.0000e-005	0.0000	2.0145
Total	**1.2100e-003**	**9.4600e-003**	**9.0800e-003**	**4.0000e-005**	**2.9400e-003**	**4.0000e-005**	**2.9700e-003**	**7.9000e-004**	**3.0000e-005**	**8.3000e-004**	**0.0000**	**4.2312**	**4.2312**	**1.6000e-004**	**0.0000**	**4.2349**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Unmitigated Construction - Phase 1 - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Gasoline/Service Station	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Gasoline/Service Station	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Non-Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Parking Lot	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Unrefrigerated Warehouse-No Rail	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated Construction - Phase 1 - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0630	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0630	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0532					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Total	**0.0630**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0532					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Total	**0.0630**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Construction - Phase 2

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.02	1000sqft	0.02	1,020.00	0
Other Asphalt Surfaces	0.14	Acre	0.14	6,098.40	0
Other Non-Asphalt Surfaces	17.83	1000sqft	0.41	4,458.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated Construction - Phase 2 - Contra Costa County, Annual

Project Characteristics - Unmitigated Construction - Phase 2

Land Use - Phase 2 includes the construction of a 18,533-square-foot truck maintenance facility, adjacent wash station, and storage yard.
Phase 2 would involve the disturbance of approximately 1 acre.

Construction Phase - Phase 2 construction schedule
The construction schedule and number of workdays were obtained from the project description; slight modifications were made to the dates in order to retain the correct number of workdays in CalEEMod.

Off-road Equipment -

Off-road Equipment - Construction equipment list obtained from the project description.

Off-road Equipment - Construction equipment list obtained from the project description.

Off-road Equipment - Construction equipment list obtained from the project description.

Off-road Equipment -

Trips and VMT - 12 workers 2.5 trips per worker
Adddional haul 2 per piece of equipment

Grading - Phase 2: 2,305 cubic yards of material to be imported

Architectural Coating -

Vehicle Trips - Construction run only - zeroed out operational inputs

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Construction run only - zeroed out operational inputs

Water And Wastewater - Construction run only - zeroed out operational inputs

Solid Waste - Construction run only - zeroed out operational inputs

Construction Off-road Equipment Mitigation - Compliance with BAAQMD Best Management Practices threshold for fugitive dust; recommended measures from BAAQMD's Construction Mitigation Measures for all proposed projects.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	3.08	0.00

Unmitigated Construction - Phase 2 - Contra Costa County, Annual

tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblGrading	MaterialImported	0.00	2,305.00
tblLandUse	LandUseSquareFeet	17,830.00	4,458.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblSolidWaste	SolidWasteGenerationRate	70.78	0.00
tblSolidWaste	SolidWasteGenerationRate	1.26	0.00

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tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	228.00	236.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	11.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	2.00	30.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	0.00
tblWater	IndoorWaterUseRate	235,875.00	0.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00

2.0 Emissions Summary

Unmitigated Construction - Phase 2 - Contra Costa County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1447	0.3899	0.4308	9.0000e-004	0.0184	0.0174	0.0358	5.1100e-003	0.0160	0.0212	0.0000	80.7658	80.7658	0.0181	0.0000	81.2174
Maximum	**0.1447**	**0.3899**	**0.4308**	**9.0000e-004**	**0.0184**	**0.0174**	**0.0358**	**5.1100e-003**	**0.0160**	**0.0212**	**0.0000**	**80.7658**	**80.7658**	**0.0181**	**0.0000**	**81.2174**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1447	0.3899	0.4308	9.0000e-004	0.0178	0.0174	0.0352	4.8700e-003	0.0160	0.0209	0.0000	80.7657	80.7657	0.0181	0.0000	81.2173
Maximum	**0.1447**	**0.3899**	**0.4308**	**9.0000e-004**	**0.0178**	**0.0174**	**0.0352**	**4.8700e-003**	**0.0160**	**0.0209**	**0.0000**	**80.7657**	**80.7657**	**0.0181**	**0.0000**	**81.2173**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**3.05**	**0.00**	**1.57**	**4.70**	**0.00**	**1.18**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated Construction - Phase 2 - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	0.2753	0.2753
2	9-1-2023	9-30-2023	0.0982	0.0982
		Highest	0.2753	0.2753

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0875	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0875**	**0.0000**	**3.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.7000e-004**	**6.7000e-004**	**0.0000**	**0.0000**	**7.1000e-004**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0875	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0875**	**0.0000**	**3.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.7000e-004**	**6.7000e-004**	**0.0000**	**0.0000**	**7.1000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Unmitigated Construction - Phase 2 - Contra Costa County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/1/2023	5	1	
2	Grading	Grading	6/2/2023	6/5/2023	5	2	
3	Building Construction	Building Construction	6/6/2023	10/23/2023	5	100	
4	Paving	Paving	9/15/2023	9/21/2023	5	5	
5	Architectural Coating	Architectural Coating	10/24/2023	10/30/2023	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 29,330; Non-Residential Outdoor: 9,777; Striped Parking Area: 633 (Architectural Coating – sqft)

OffRoad Equipment

Unmitigated Construction - Phase 2 - Contra Costa County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	30.00	0.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	30.00	0.00	236.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	30.00	5.00	10.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	30.00	0.00	14.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	3.0900e-003	1.9600e-003	0.0000		1.1000e-004	1.1000e-004		1.0000e-004	1.0000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
Total	**2.7000e-004**	**3.0900e-003**	**1.9600e-003**	**0.0000**	**2.7000e-004**	**1.1000e-004**	**3.8000e-004**	**3.0000e-005**	**1.0000e-004**	**1.3000e-004**	**0.0000**	**0.4275**	**0.4275**	**1.4000e-004**	**0.0000**	**0.4309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.2000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1422	0.1422	1.0000e-005	0.0000	0.1423
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0932	0.0932	0.0000	0.0000	0.0932
Total	**5.0000e-005**	**3.5000e-004**	**3.8000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2353**	**0.2353**	**1.0000e-005**	**0.0000**	**0.2355**

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	3.0900e-003	1.9600e-003	0.0000		1.1000e-004	1.1000e-004		1.0000e-004	1.0000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
Total	**2.7000e-004**	**3.0900e-003**	**1.9600e-003**	**0.0000**	**1.2000e-004**	**1.1000e-004**	**2.3000e-004**	**1.0000e-005**	**1.0000e-004**	**1.1000e-004**	**0.0000**	**0.4275**	**0.4275**	**1.4000e-004**	**0.0000**	**0.4309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.2000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1422	0.1422	1.0000e-005	0.0000	0.1423
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0932	0.0932	0.0000	0.0000	0.0932
Total	**5.0000e-005**	**3.5000e-004**	**3.8000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2353**	**0.2353**	**1.0000e-005**	**0.0000**	**0.2355**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e-004	5.7800e-003	7.3900e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.7000e-004	2.7000e-004	0.0000	1.0418	1.0418	1.9000e-004	0.0000	1.0466
Total	**6.5000e-004**	**5.7800e-003**	**7.3900e-003**	**1.0000e-005**	**7.5000e-004**	**2.8000e-004**	**1.0300e-003**	**4.1000e-004**	**2.7000e-004**	**6.8000e-004**	**0.0000**	**1.0418**	**1.0418**	**1.9000e-004**	**0.0000**	**1.0466**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.9000e-004	0.0191	5.5400e-003	9.0000e-005	2.0000e-003	4.0000e-005	2.0300e-003	5.5000e-004	3.0000e-005	5.8000e-004	0.0000	8.3871	8.3871	3.3000e-004	0.0000	8.3953
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1863	0.1863	0.0000	0.0000	0.1864
Total	**6.7000e-004**	**0.0191**	**6.1200e-003**	**9.0000e-005**	**2.2400e-003**	**4.0000e-005**	**2.2700e-003**	**6.1000e-004**	**3.0000e-005**	**6.4000e-004**	**0.0000**	**8.5734**	**8.5734**	**3.3000e-004**	**0.0000**	**8.5817**

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4000e-004	0.0000	3.4000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e-004	5.7800e-003	7.3900e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.7000e-004	2.7000e-004	0.0000	1.0418	1.0418	1.9000e-004	0.0000	1.0466
Total	**6.5000e-004**	**5.7800e-003**	**7.3900e-003**	**1.0000e-005**	**3.4000e-004**	**2.8000e-004**	**6.2000e-004**	**1.9000e-004**	**2.7000e-004**	**4.6000e-004**	**0.0000**	**1.0418**	**1.0418**	**1.9000e-004**	**0.0000**	**1.0466**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.9000e-004	0.0191	5.5400e-003	9.0000e-005	2.0000e-003	4.0000e-005	2.0300e-003	5.5000e-004	3.0000e-005	5.8000e-004	0.0000	8.3871	8.3871	3.3000e-004	0.0000	8.3953
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1863	0.1863	0.0000	0.0000	0.1864
Total	**6.7000e-004**	**0.0191**	**6.1200e-003**	**9.0000e-005**	**2.2400e-003**	**4.0000e-005**	**2.2700e-003**	**6.1000e-004**	**3.0000e-005**	**6.4000e-004**	**0.0000**	**8.5734**	**8.5734**	**3.3000e-004**	**0.0000**	**8.5817**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0316	0.3209	0.3549	5.7000e-004		0.0160	0.0160		0.0147	0.0147	0.0000	50.1042	50.1042	0.0162	0.0000	50.5093
Total	**0.0316**	**0.3209**	**0.3549**	**5.7000e-004**		**0.0160**	**0.0160**		**0.0147**	**0.0147**	**0.0000**	**50.1042**	**50.1042**	**0.0162**	**0.0000**	**50.5093**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	8.1000e-004	2.3000e-004	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3554	0.3554	1.0000e-005	0.0000	0.3557
Vendor	5.8000e-004	0.0186	5.4900e-003	6.0000e-005	1.6400e-003	2.0000e-005	1.6700e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	6.2232	6.2232	2.3000e-004	0.0000	6.2290
Worker	4.0200e-003	2.6100e-003	0.0290	1.0000e-004	0.0119	7.0000e-005	0.0120	3.1600e-003	7.0000e-005	3.2300e-003	0.0000	9.3165	9.3165	1.8000e-004	0.0000	9.3211
Total	**4.6200e-003**	**0.0220**	**0.0347**	**1.6000e-004**	**0.0136**	**9.0000e-005**	**0.0137**	**3.6600e-003**	**9.0000e-005**	**3.7500e-003**	**0.0000**	**15.8951**	**15.8951**	**4.2000e-004**	**0.0000**	**15.9059**

3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0316	0.3209	0.3549	5.7000e-004		0.0160	0.0160		0.0147	0.0147	0.0000	50.1042	50.1042	0.0162	0.0000	50.5093
Total	**0.0316**	**0.3209**	**0.3549**	**5.7000e-004**		**0.0160**	**0.0160**		**0.0147**	**0.0147**	**0.0000**	**50.1042**	**50.1042**	**0.0162**	**0.0000**	**50.5093**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	8.1000e-004	2.3000e-004	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3554	0.3554	1.0000e-005	0.0000	0.3557
Vendor	5.8000e-004	0.0186	5.4900e-003	6.0000e-005	1.6400e-003	2.0000e-005	1.6700e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	6.2232	6.2232	2.3000e-004	0.0000	6.2290
Worker	4.0200e-003	2.6100e-003	0.0290	1.0000e-004	0.0119	7.0000e-005	0.0120	3.1600e-003	7.0000e-005	3.2300e-003	0.0000	9.3165	9.3165	1.8000e-004	0.0000	9.3211
Total	**4.6200e-003**	**0.0220**	**0.0347**	**1.6000e-004**	**0.0136**	**9.0000e-005**	**0.0137**	**3.6600e-003**	**9.0000e-005**	**3.7500e-003**	**0.0000**	**15.8951**	**15.8951**	**4.2000e-004**	**0.0000**	**15.9059**

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.7100e-003**	**0.0138**	**0.0176**	**3.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.2000e-004**	**6.2000e-004**	**0.0000**	**2.3498**	**2.3498**	**6.8000e-004**	**0.0000**	**2.3669**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.1300e-003	3.3000e-004	1.0000e-005	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4975	0.4975	2.0000e-005	0.0000	0.4980
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.3000e-004	1.4500e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4658	0.4658	1.0000e-005	0.0000	0.4661
Total	**2.3000e-004**	**1.2600e-003**	**1.7800e-003**	**2.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.9634**	**0.9634**	**3.0000e-005**	**0.0000**	**0.9641**

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.7100e-003**	**0.0138**	**0.0176**	**3.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.2000e-004**	**6.2000e-004**	**0.0000**	**2.3498**	**2.3498**	**6.8000e-004**	**0.0000**	**2.3669**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.1300e-003	3.3000e-004	1.0000e-005	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4975	0.4975	2.0000e-005	0.0000	0.4980
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.3000e-004	1.4500e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4658	0.4658	1.0000e-005	0.0000	0.4661
Total	**2.3000e-004**	**1.2600e-003**	**1.7800e-003**	**2.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.9634**	**0.9634**	**3.0000e-005**	**0.0000**	**0.9641**

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1042					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	**0.1046**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.6000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0711	0.0711	0.0000	0.0000	0.0712
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.3000e-004	1.4500e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4658	0.4658	1.0000e-005	0.0000	0.4661
Total	**2.0000e-004**	**2.9000e-004**	**1.5000e-003**	**1.0000e-005**	**6.1000e-004**	**0.0000**	**6.2000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5369**	**0.5369**	**1.0000e-005**	**0.0000**	**0.5372**

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1042					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	**0.1046**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.6000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0711	0.0711	0.0000	0.0000	0.0712
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.3000e-004	1.4500e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4658	0.4658	1.0000e-005	0.0000	0.4661
Total	**2.0000e-004**	**2.9000e-004**	**1.5000e-003**	**1.0000e-005**	**6.1000e-004**	**0.0000**	**6.2000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5369**	**0.5369**	**1.0000e-005**	**0.0000**	**0.5372**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.590657	0.037535	0.185105	0.118290	0.015611	0.005013	0.010768	0.024764	0.001635	0.001742	0.005351	0.002726	0.000802
General Light Industry	0.590657	0.037535	0.185105	0.118290	0.015611	0.005013	0.010768	0.024764	0.001635	0.001742	0.005351	0.002726	0.000802
Other Asphalt Surfaces	0.590657	0.037535	0.185105	0.118290	0.015611	0.005013	0.010768	0.024764	0.001635	0.001742	0.005351	0.002726	0.000802
Other Non-Asphalt Surfaces	0.590657	0.037535	0.185105	0.118290	0.015611	0.005013	0.010768	0.024764	0.001635	0.001742	0.005351	0.002726	0.000802

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated Construction - Phase 2 - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated Construction - Phase 2 - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0875	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Unmitigated	0.0875	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0771					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Total	**0.0875**	**0.0000**	**3.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.7000e-004**	**6.7000e-004**	**0.0000**	**0.0000**	**7.1000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0771					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Total	**0.0875**	**0.0000**	**3.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.7000e-004**	**6.7000e-004**	**0.0000**	**0.0000**	**7.1000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Construction - Phase 3

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	18.50	1000sqft	0.42	18,500.00	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Unmitigated Construction - Phase 3
Adjusted CO2e to reflect updated factors and compliance with RPS (see the CO2e Intensity Factor Adjustments sheet for source and calculations).

Land Use - Phase 3 involves drainage improvements and grading approximately 1.73 acres. It is assumed that Phase 3 would include the construction and development of a 18,500-square-foot warehouse building.

Construction Phase - Phase 3 construction schedule
The construction schedule and number of workdays were obtained from the project description; slight modifications were made to the dates in order to retain the correct number of workdays in CalEEMod.

Off-road Equipment -

Off-road Equipment - Construction equipment usage details obtained from the project description.

Off-road Equipment - Construction equipment usage details obtained from the project description.

Off-road Equipment - Construction equipment usage details obtained from the project description.

Off-road Equipment -

Trips and VMT - --

Grading - Phase 3: 1,450 cubic yards of material to be exported

Architectural Coating -

Area Coating -

Energy Use - Construction run only - zeroed out operational inputs

Construction Off-road Equipment Mitigation - Compliance with BAAQMD Best Management Practices threshold for fugitive dust; recommended measures from BAAQMD's Construction Mitigation Measures for all proposed projects.

Vehicle Trips - Construction run only - zeroed out operational inputs

Water And Wastewater - Construction run only - zeroed out operational inputs

Solid Waste - Construction run only - zeroed out operational inputs

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	NumDays	4.00	2.00
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	10.00	5.00

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tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24NG	19.71	0.00
tblGrading	MaterialExported	0.00	1,450.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

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tblSolidWaste	SolidWasteGenerationRate	22.94	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	HaulingTripNumber	143.00	151.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	32.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	6.00	30.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	4,278,125.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.1441	0.3559	0.4252	9.5000e-004	0.0200	0.0132	0.0332	5.5900e-003	0.0122	0.0178	0.0000	85.0978	85.0978	0.0182	0.0000	85.5525
Maximum	**0.1441**	**0.3559**	**0.4252**	**9.5000e-004**	**0.0200**	**0.0132**	**0.0332**	**5.5900e-003**	**0.0122**	**0.0178**	**0.0000**	**85.0978**	**85.0978**	**0.0182**	**0.0000**	**85.5525**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.1441	0.3559	0.4252	9.5000e-004	0.0194	0.0132	0.0326	5.3500e-003	0.0122	0.0175	0.0000	85.0977	85.0977	0.0182	0.0000	85.5524
Maximum	**0.1441**	**0.3559**	**0.4252**	**9.5000e-004**	**0.0194**	**0.0132**	**0.0326**	**5.3500e-003**	**0.0122**	**0.0175**	**0.0000**	**85.0977**	**85.0977**	**0.0182**	**0.0000**	**85.5524**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**2.80**	**0.00**	**1.69**	**4.29**	**0.00**	**1.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2026	8-31-2026	0.2384	0.2384
2	9-1-2026	9-30-2026	0.0903	0.0903
		Highest	0.2384	0.2384

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0868	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5000e-004	3.5000e-004	0.0000	0.0000	3.8000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0868**	**0.0000**	**1.8000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**0.0000**	**3.8000e-004**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0868	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5000e-004	3.5000e-004	0.0000	0.0000	3.8000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0868**	**0.0000**	**1.8000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**0.0000**	**3.8000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Unmitigated Construction - Phase 3 - Contra Costa County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2026	6/1/2026	5	1	
2	Grading	Grading	6/2/2026	6/3/2026	5	2	
3	Building Construction	Building Construction	6/4/2026	10/21/2026	5	100	
4	Paving	Paving	9/15/2026	9/21/2026	5	5	
5	Architectural Coating	Architectural Coating	10/24/2026	10/30/2026	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.31

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 27,750; Non-Residential Outdoor: 9,250; Striped Parking Area: 3,424 (Architectural Coating – sqft)

OffRoad Equipment

Unmitigated Construction - Phase 3 - Contra Costa County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	0	0.00	187	0.41
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	30.00	0.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	30.00	0.00	151.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	30.00	12.00	16.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	30.00	0.00	12.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Unmitigated Construction - Phase 3 - Contra Costa County, Annual

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-004	2.4000e-003	1.9100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.4274	0.4274	1.4000e-004	0.0000	0.4309
Total	**2.2000e-004**	**2.4000e-003**	**1.9100e-003**	**0.0000**	**2.7000e-004**	**8.0000e-005**	**3.5000e-004**	**3.0000e-005**	**8.0000e-005**	**1.1000e-004**	**0.0000**	**0.4274**	**0.4274**	**1.4000e-004**	**0.0000**	**0.4309**

3.2 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.5000e-004	1.4000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.2089	0.2089	1.0000e-005	0.0000	0.2091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0825	0.0825	0.0000	0.0000	0.0825
Total	**4.0000e-005**	**4.7000e-004**	**3.7000e-004**	**0.0000**	**1.7000e-004**	**0.0000**	**1.7000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2914**	**0.2914**	**1.0000e-005**	**0.0000**	**0.2916**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-004	2.4000e-003	1.9100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.4274	0.4274	1.4000e-004	0.0000	0.4309
Total	**2.2000e-004**	**2.4000e-003**	**1.9100e-003**	**0.0000**	**1.2000e-004**	**8.0000e-005**	**2.0000e-004**	**1.0000e-005**	**8.0000e-005**	**9.0000e-005**	**0.0000**	**0.4274**	**0.4274**	**1.4000e-004**	**0.0000**	**0.4309**

3.2 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.5000e-004	1.4000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.2089	0.2089	1.0000e-005	0.0000	0.2091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0825	0.0825	0.0000	0.0000	0.0825
Total	**4.0000e-005**	**4.7000e-004**	**3.7000e-004**	**0.0000**	**1.7000e-004**	**0.0000**	**1.7000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2914**	**0.2914**	**1.0000e-005**	**0.0000**	**0.2916**

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	5.1000e-003	7.3600e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.0000e-004	2.0000e-004	0.0000	1.0425	1.0425	1.9000e-004	0.0000	1.0471
Total	**5.7000e-004**	**5.1000e-003**	**7.3600e-003**	**1.0000e-005**	**7.5000e-004**	**2.1000e-004**	**9.6000e-004**	**4.1000e-004**	**2.0000e-004**	**6.1000e-004**	**0.0000**	**1.0425**	**1.0425**	**1.9000e-004**	**0.0000**	**1.0471**

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0114	3.5700e-003	5.0000e-005	1.2800e-003	2.0000e-005	1.3000e-003	3.5000e-004	2.0000e-005	3.7000e-004	0.0000	5.2570	5.2570	2.0000e-004	0.0000	5.2621
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	4.6000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1650	0.1650	0.0000	0.0000	0.1651
Total	**4.3000e-004**	**0.0115**	**4.0300e-003**	**5.0000e-005**	**1.5200e-003**	**2.0000e-005**	**1.5400e-003**	**4.1000e-004**	**2.0000e-005**	**4.3000e-004**	**0.0000**	**5.4220**	**5.4220**	**2.0000e-004**	**0.0000**	**5.4271**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4000e-004	0.0000	3.4000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	5.1000e-003	7.3600e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.0000e-004	2.0000e-004	0.0000	1.0425	1.0425	1.9000e-004	0.0000	1.0471
Total	**5.7000e-004**	**5.1000e-003**	**7.3600e-003**	**1.0000e-005**	**3.4000e-004**	**2.1000e-004**	**5.5000e-004**	**1.9000e-004**	**2.0000e-004**	**3.9000e-004**	**0.0000**	**1.0425**	**1.0425**	**1.9000e-004**	**0.0000**	**1.0471**

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0114	3.5700e-003	5.0000e-005	1.2800e-003	2.0000e-005	1.3000e-003	3.5000e-004	2.0000e-005	3.7000e-004	0.0000	5.2570	5.2570	2.0000e-004	0.0000	5.2621
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	4.6000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1650	0.1650	0.0000	0.0000	0.1651
Total	**4.3000e-004**	**0.0115**	**4.0300e-003**	**5.0000e-005**	**1.5200e-003**	**2.0000e-005**	**1.5400e-003**	**4.1000e-004**	**2.0000e-005**	**4.3000e-004**	**0.0000**	**5.4220**	**5.4220**	**2.0000e-004**	**0.0000**	**5.4271**

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0276	0.2741	0.3514	5.7000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	50.1479	50.1479	0.0162	0.0000	50.5533
Total	**0.0276**	**0.2741**	**0.3514**	**5.7000e-004**		**0.0121**	**0.0121**		**0.0111**	**0.0111**	**0.0000**	**50.1479**	**50.1479**	**0.0162**	**0.0000**	**50.5533**

3.4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.2100e-003	3.8000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5570	0.5570	2.0000e-005	0.0000	0.5576
Vendor	1.2600e-003	0.0428	0.0119	1.5000e-004	3.9500e-003	5.0000e-005	4.0000e-003	1.1400e-003	5.0000e-005	1.1900e-003	0.0000	14.6588	14.6588	5.2000e-004	0.0000	14.6717
Worker	3.3500e-003	1.9500e-003	0.0231	9.0000e-005	0.0119	7.0000e-005	0.0120	3.1600e-003	6.0000e-005	3.2300e-003	0.0000	8.2500	8.2500	1.4000e-004	0.0000	8.2534
Total	**4.6500e-003**	**0.0459**	**0.0354**	**2.5000e-004**	**0.0160**	**1.2000e-004**	**0.0161**	**4.3400e-003**	**1.1000e-004**	**4.4600e-003**	**0.0000**	**23.4658**	**23.4658**	**6.8000e-004**	**0.0000**	**23.4826**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0276	0.2741	0.3514	5.7000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	50.1478	50.1478	0.0162	0.0000	50.5533
Total	**0.0276**	**0.2741**	**0.3514**	**5.7000e-004**		**0.0121**	**0.0121**		**0.0111**	**0.0111**	**0.0000**	**50.1478**	**50.1478**	**0.0162**	**0.0000**	**50.5533**

3.4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.2100e-003	3.8000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5570	0.5570	2.0000e-005	0.0000	0.5576
Vendor	1.2600e-003	0.0428	0.0119	1.5000e-004	3.9500e-003	5.0000e-005	4.0000e-003	1.1400e-003	5.0000e-005	1.1900e-003	0.0000	14.6588	14.6588	5.2000e-004	0.0000	14.6717
Worker	3.3500e-003	1.9500e-003	0.0231	9.0000e-005	0.0119	7.0000e-005	0.0120	3.1600e-003	6.0000e-005	3.2300e-003	0.0000	8.2500	8.2500	1.4000e-004	0.0000	8.2534
Total	**4.6500e-003**	**0.0459**	**0.0354**	**2.5000e-004**	**0.0160**	**1.2000e-004**	**0.0161**	**4.3400e-003**	**1.1000e-004**	**4.4600e-003**	**0.0000**	**23.4658**	**23.4658**	**6.8000e-004**	**0.0000**	**23.4826**

3.5 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4100e-003	0.0123	0.0176	3.0000e-005		5.5000e-004	5.5000e-004		5.1000e-004	5.1000e-004	0.0000	2.3502	2.3502	6.8000e-004	0.0000	2.3673
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4100e-003**	**0.0123**	**0.0176**	**3.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.1000e-004**	**5.1000e-004**	**0.0000**	**2.3502**	**2.3502**	**6.8000e-004**	**0.0000**	**2.3673**

3.5 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.1000e-004	2.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4178	0.4178	2.0000e-005	0.0000	0.4182
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.0000e-004	1.1500e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4125	0.4125	1.0000e-005	0.0000	0.4127
Total	**2.0000e-004**	**1.0100e-003**	**1.4300e-003**	**0.0000**	**6.9000e-004**	**0.0000**	**7.0000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.8303**	**0.8303**	**3.0000e-005**	**0.0000**	**0.8309**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4100e-003	0.0123	0.0176	3.0000e-005		5.5000e-004	5.5000e-004		5.1000e-004	5.1000e-004	0.0000	2.3502	2.3502	6.8000e-004	0.0000	2.3673
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4100e-003**	**0.0123**	**0.0176**	**3.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.1000e-004**	**5.1000e-004**	**0.0000**	**2.3502**	**2.3502**	**6.8000e-004**	**0.0000**	**2.3673**

3.5 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.1000e-004	2.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4178	0.4178	2.0000e-005	0.0000	0.4182
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.0000e-004	1.1500e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4125	0.4125	1.0000e-005	0.0000	0.4127
Total	**2.0000e-004**	**1.0100e-003**	**1.4300e-003**	**0.0000**	**6.9000e-004**	**0.0000**	**7.0000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.8303**	**0.8303**	**3.0000e-005**	**0.0000**	**0.8309**

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-004	2.8600e-003	4.5200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6392
Total	**0.1088**	**2.8600e-003**	**4.5200e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**0.6383**	**0.6383**	**3.0000e-005**	**0.0000**	**0.6392**

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.5000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0696	0.0696	0.0000	0.0000	0.0697
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.0000e-004	1.1500e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4125	0.4125	1.0000e-005	0.0000	0.4127
Total	**1.7000e-004**	**2.5000e-004**	**1.2000e-003**	**0.0000**	**6.1000e-004**	**0.0000**	**6.2000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4821**	**0.4821**	**1.0000e-005**	**0.0000**	**0.4824**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-004	2.8600e-003	4.5200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6392
Total	**0.1088**	**2.8600e-003**	**4.5200e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**0.6383**	**0.6383**	**3.0000e-005**	**0.0000**	**0.6392**

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.5000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0696	0.0696	0.0000	0.0000	0.0697
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.0000e-004	1.1500e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4125	0.4125	1.0000e-005	0.0000	0.4127
Total	**1.7000e-004**	**2.5000e-004**	**1.2000e-003**	**0.0000**	**6.1000e-004**	**0.0000**	**6.2000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4821**	**0.4821**	**1.0000e-005**	**0.0000**	**0.4824**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Unmitigated Construction - Phase 3 - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Other Non-Asphalt Surfaces	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated Construction - Phase 3 - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0868	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5000e-004	3.5000e-004	0.0000	0.0000	3.8000e-004
Unmitigated	0.0868	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5000e-004	3.5000e-004	0.0000	0.0000	3.8000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5000e-004	3.5000e-004	0.0000	0.0000	3.8000e-004
Total	**0.0868**	**0.0000**	**1.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**0.0000**	**3.8000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5000e-004	3.5000e-004	0.0000	0.0000	3.8000e-004
Total	**0.0868**	**0.0000**	**1.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**0.0000**	**3.8000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Project Operations - Employee Trips, Building, and Area

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.52	1000sqft	0.44	19,520.00	0
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.87	Acre	0.87	37,897.20	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
City Park	3.50	Acre	3.50	152,452.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated Project Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

Project Characteristics - Area, Building, and Employee Vehicle Operations. Full project buildout modeled in the earliest operational year.
Adjusted CO2e to reflect updated factors and compliance with RPS.

Land Use - Based on project description (see supporting information for notes on CalEEMod land use selection).
Full project buildout (Phases 1 -3).

Construction Phase - Operational run - zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - 138 employee trips per weekday, consistent with the project-specific trip generation used in the traffic analysis. No operations on Sunday.
The employee vehicle trip length was taken from the VMT Analysis Screening memo.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater - As noted in the project description, it is estimated that the existing warehouse building would demand approximately 1,280 gallons per day (gpd) of water and the Phase 2 and Phase 3 buildings would each demand approximately 1,860 gpd (5,000 gpd total).

Solid Waste -

Construction Off-road Equipment Mitigation -

Fleet Mix - Employee vehicle fleet mix (passenger vehicle fleet mix)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.58	0.63
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.02	0.00

Unmitigated Project Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

tblFleetMix	LHD2	5.0830e-003	0.00
tblFleetMix	MCY	5.4540e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	8.7100e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.6050e-003	0.00
tblFleetMix	SBUS	2.7460e-003	0.00
tblFleetMix	UBUS	1.8100e-003	0.00
tblLandUse	LandUseSquareFeet	152,460.00	152,452.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblLandUse	LotAcreage	0.45	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	CC_TL	7.30	10.70
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	10.70
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	10.70
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	0.54

tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	7.07
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	580,320.00
tblWater	IndoorWaterUseRate	4,514,000.00	580,320.00
tblWater	IndoorWaterUseRate	2,250,062.50	399,360.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated Project Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.0041	0.0041
		Highest	0.0041	0.0041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Energy	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	108.9578	108.9578	6.3900e-003	2.1200e-003	109.7501
Mobile	0.0226	0.0389	0.3909	1.3800e-003	0.1430	8.7000e-004	0.1438	0.0380	8.0000e-004	0.0388	0.0000	125.0579	125.0579	2.6400e-003	0.0000	125.1239
Waste						0.0000	0.0000		0.0000	0.0000	21.4176	0.0000	21.4176	1.2657	0.0000	53.0611
Water						0.0000	0.0000		0.0000	0.0000	0.5033	3.0567	3.5601	0.0520	1.2800e-003	5.2428
Total	**0.2641**	**0.0901**	**0.4345**	**1.6900e-003**	**0.1430**	**4.7600e-003**	**0.1477**	**0.0380**	**4.6900e-003**	**0.0427**	**21.9209**	**237.0734**	**258.9943**	**1.3268**	**3.4000e-003**	**293.1790**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Energy	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	108.9578	108.9578	6.3900e-003	2.1200e-003	109.7501
Mobile	0.0226	0.0389	0.3909	1.3800e-003	0.1430	8.7000e-004	0.1438	0.0380	8.0000e-004	0.0388	0.0000	125.0579	125.0579	2.6400e-003	0.0000	125.1239
Waste						0.0000	0.0000		0.0000	0.0000	21.4176	0.0000	21.4176	1.2657	0.0000	53.0611
Water						0.0000	0.0000		0.0000	0.0000	0.5033	3.0567	3.5601	0.0520	1.2800e-003	5.2428
Total	**0.2641**	**0.0901**	**0.4345**	**1.6900e-003**	**0.1430**	**4.7600e-003**	**0.1477**	**0.0380**	**4.6900e-003**	**0.0427**	**21.9209**	**237.0734**	**258.9943**	**1.3268**	**3.4000e-003**	**293.1790**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0226	0.0389	0.3909	1.3800e-003	0.1430	8.7000e-004	0.1438	0.0380	8.0000e-004	0.0388	0.0000	125.0579	125.0579	2.6400e-003	0.0000	125.1239
Unmitigated	0.0226	0.0389	0.3909	1.3800e-003	0.1430	8.7000e-004	0.1438	0.0380	8.0000e-004	0.0388	0.0000	125.0579	125.0579	2.6400e-003	0.0000	125.1239

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	138.00	10.62	0.00	389,822	389,822
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	138.00	10.62	0.00	389,822	389,822

4.3 Trip Type Information

Unmitigated Project Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	10.70	10.70	10.70	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
City Park	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Gasoline/Service Station	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
General Light Industry	0.625564	0.042015	0.199844	0.132577	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Non-Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Parking Lot	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Unrefrigerated Warehouse-No Rail	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated Project Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	53.1900	53.1900	5.3200e-003	1.1000e-003	53.6509
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	53.1900	53.1900	5.3200e-003	1.1000e-003	53.6509
NaturalGas Mitigated	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	55.7678	55.7678	1.0700e-003	1.0200e-003	56.0992
NaturalGas Unmitigated	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	55.7678	55.7678	1.0700e-003	1.0200e-003	56.0992

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	488901	2.6400e-003	0.0240	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0896	26.0896	5.0000e-004	4.8000e-004	26.2446
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	7448.39	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3975	0.3975	1.0000e-005	1.0000e-005	0.3998
General Light Industry	514938	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4790	27.4790	5.3000e-004	5.0000e-004	27.6423
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**5.6400e-003**	**0.0512**	**0.0430**	**3.0000e-004**		**3.9000e-003**	**3.9000e-003**		**3.9000e-003**	**3.9000e-003**	**0.0000**	**55.7678**	**55.7678**	**1.0700e-003**	**1.0200e-003**	**56.0992**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	488901	2.6400e-003	0.0240	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0896	26.0896	5.0000e-004	4.8000e-004	26.2446
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	7448.39	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3975	0.3975	1.0000e-005	1.0000e-005	0.3998
General Light Industry	514938	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4790	27.4790	5.3000e-004	5.0000e-004	27.6423
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**5.6400e-003**	**0.0512**	**0.0430**	**3.0000e-004**		**3.9000e-003**	**3.9000e-003**		**3.9000e-003**	**3.9000e-003**	**0.0000**	**55.7678**	**55.7678**	**1.0700e-003**	**1.0200e-003**	**56.0992**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	153083	20.1368	2.0100e-003	4.2000e-004	20.3113
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	2332.21	0.3068	3.0000e-005	1.0000e-005	0.3094
General Light Industry	161235	21.2092	2.1200e-003	4.4000e-004	21.3930
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	53361	7.0192	7.0000e-004	1.5000e-004	7.0800
Unrefrigerated Warehouse-No Rail	34346.9	4.5181	4.5000e-004	9.0000e-005	4.5572
Total		**53.1900**	**5.3100e-003**	**1.1100e-003**	**53.6509**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	153083	20.1368	2.0100e-003	4.2000e-004	20.3113
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	2332.21	0.3068	3.0000e-005	1.0000e-005	0.3094
General Light Industry	161235	21.2092	2.1200e-003	4.4000e-004	21.3930
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	53361	7.0192	7.0000e-004	1.5000e-004	7.0800
Unrefrigerated Warehouse-No Rail	34346.9	4.5181	4.5000e-004	9.0000e-005	4.5572
Total		**53.1900**	**5.3100e-003**	**1.1100e-003**	**53.6509**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Unmitigated	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Total	**0.2359**	**0.0000**	**5.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0500e-003**	**1.0500e-003**	**0.0000**	**0.0000**	**1.1200e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Total	**0.2359**	**0.0000**	**5.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0500e-003**	**1.0500e-003**	**0.0000**	**0.0000**	**1.1200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Unmitigated Project Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.5601	0.0520	1.2800e-003	5.2428
Unmitigated	3.5601	0.0520	1.2800e-003	5.2428

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.58032 / 0	0.5972	0.0190	4.6000e-004	1.2065
City Park	0 / 4.17018	1.9199	1.9000e-004	4.0000e-005	1.9366
Gasoline/Service Station	0.0265638 / 0.016281	0.0348	8.7000e-004	2.0000e-005	0.0628
General Light Industry	0.58032 / 0	0.5972	0.0190	4.6000e-004	1.2065
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.4110	0.0130	3.1000e-004	0.8303
Total		**3.5600**	**0.0520**	**1.2900e-003**	**5.2428**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.58032 / 0	0.5972	0.0190	4.6000e-004	1.2065
City Park	0 / 4.17018	1.9199	1.9000e-004	4.0000e-005	1.9366
Gasoline/Service Station	0.0265638 / 0.016281	0.0348	8.7000e-004	2.0000e-005	0.0628
General Light Industry	0.58032 / 0	0.5972	0.0190	4.6000e-004	1.2065
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.4110	0.0130	3.1000e-004	0.8303
Total		**3.5600**	**0.0520**	**1.2900e-003**	**5.2428**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Unmitigated Project Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.4176	1.2657	0.0000	53.0611
Unmitigated	21.4176	1.2657	0.0000	53.0611

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	70.78	14.3677	0.8491	0.0000	35.5954
City Park	0.3	0.0609	3.6000e-003	0.0000	0.1509
Gasoline/Service Station	1.08	0.2192	0.0130	0.0000	0.5431
General Light Industry	24.2	4.9124	0.2903	0.0000	12.1702
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**21.4176**	**1.2658**	**0.0000**	**53.0611**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	70.78	14.3677	0.8491	0.0000	35.5954
City Park	0.3	0.0609	3.6000e-003	0.0000	0.1509
Gasoline/Service Station	1.08	0.2192	0.0130	0.0000	0.5431
General Light Industry	24.2	4.9124	0.2903	0.0000	12.1702
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**21.4176**	**1.2658**	**0.0000**	**53.0611**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Project Operations - Project Truck Operations

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.52	1000sqft	0.44	19,520.00	0
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.87	Acre	0.87	37,897.20	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
City Park	3.50	Acre	3.50	152,452.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

Project Characteristics - Truck Operations - 2021. Full project buildout modeled in the earliest operational year.
Adjusted CO2e to reflect updated factors and compliance with RPS.

Land Use - Based on project description (see supporting information for notes on CalEEMod land use selection).
Full project buildout (Phases 1 -3).

Construction Phase - Operational truck only run – zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational truck only run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - 130 truck trips per weekday.
Truck trip generation rate consistent with the project-specific trip generation used in the traffic analysis.
Adjusted trip length to 47.5 miles to match project-specific truck trip length.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Operational truck only run - zeroed out area parameters

Landscape Equipment - Operational truck only run - zeroed out area parameters

Energy Use - Operational truck only run - zeroed out building parameters

Water And Wastewater - Operational truck only run - water and wastewater in a separate run

Solid Waste - Operational truck only run

Construction Off-road Equipment Mitigation -

Fleet Mix - Truck only operational fleet mix

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	1.07	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	0.07	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	3.40	0.00
tblFleetMix	HHD	0.02	1.00
tblFleetMix	LDA	0.58	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.0830e-003	0.00
tblFleetMix	MCY	5.4540e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7100e-004	0.00

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.6050e-003	0.00
tblFleetMix	SBUS	2.7460e-003	0.00
tblFleetMix	UBUS	1.8100e-003	0.00
tblLandscapeEquipment	NumberSummerDays	180	1
tblLandUse	LandUseSquareFeet	152,460.00	152,452.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblLandUse	LotAcreage	0.45	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblSolidWaste	SolidWasteGenerationRate	70.78	0.00
tblSolidWaste	SolidWasteGenerationRate	0.30	0.00
tblSolidWaste	SolidWasteGenerationRate	1.08	0.00
tblSolidWaste	SolidWasteGenerationRate	24.20	0.00
tblSolidWaste	SolidWasteGenerationRate	9.15	0.00
tblVehicleTrips	CC_TL	7.30	47.50
tblVehicleTrips	CNW_TL	7.30	47.50
tblVehicleTrips	CW_TL	9.50	47.50
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	1.02
tblVehicleTrips	ST_TR	1.68	0.00

tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	6.66
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	0.00
tblWater	IndoorWaterUseRate	26,563.78	0.00
tblWater	IndoorWaterUseRate	4,514,000.00	0.00
tblWater	IndoorWaterUseRate	2,250,062.50	0.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00
tblWater	OutdoorWaterUseRate	4,170,184.72	0.00
tblWater	OutdoorWaterUseRate	16,281.02	0.00

2.0 Emissions Summary

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.0041	0.0041
		Highest	0.0041	0.0041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2790	8.8532	1.8915	0.0296	0.7001	0.0337	0.7338	0.1924	0.0323	0.2247	0.0000	2,859.7170	2,859.7170	0.1001	0.0000	2,862.2184
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.4846**	**8.8532**	**1.8915**	**0.0296**	**0.7001**	**0.0337**	**0.7338**	**0.1924**	**0.0323**	**0.2247**	**0.0000**	**2,859.7170**	**2,859.7170**	**0.1001**	**0.0000**	**2,862.2184**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2790	8.8532	1.8915	0.0296	0.7001	0.0337	0.7338	0.1924	0.0323	0.2247	0.0000	2,859.7170	2,859.7170	0.1001	0.0000	2,862.2184
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.4846**	**8.8532**	**1.8915**	**0.0296**	**0.7001**	**0.0337**	**0.7338**	**0.1924**	**0.0323**	**0.2247**	**0.0000**	**2,859.7170**	**2,859.7170**	**0.1001**	**0.0000**	**2,862.2184**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2790	8.8532	1.8915	0.0296	0.7001	0.0337	0.7338	0.1924	0.0323	0.2247	0.0000	2,859.7170	2,859.7170	0.1001	0.0000	2,862.2184
Unmitigated	0.2790	8.8532	1.8915	0.0296	0.7001	0.0337	0.7338	0.1924	0.0323	0.2247	0.0000	2,859.7170	2,859.7170	0.1001	0.0000	2,862.2184

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	130.00	20.00	0.00	1,654,900	1,654,900
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	130.00	20.00	0.00	1,654,900	1,654,900

4.3 Trip Type Information

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	47.50	47.50	47.50	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
City Park	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Gasoline/Service Station	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Non-Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Parking Lot	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Unrefrigerated Warehouse-No Rail	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated Project Operations - Visitors/Deliveries

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.52	1000sqft	0.44	19,520.00	0
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.87	Acre	0.87	37,897.20	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
City Park	3.50	Acre	3.50	152,452.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated Project Operations - Visitors/Deliveries - Contra Costa County, Annual

Project Characteristics - Visitors/Deliveries 2021. Full project buildout modeled in the earliest operational year.
Adjusted CO2e to reflect updated factors and compliance with RPS.

Land Use - Based on project description (see supporting information for notes on CalEEMod land use selection).
Full project buildout (Phases 1 -3).

Construction Phase - Operational visitors/deliveries only run – zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational visitors/deliveries only run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - 47 visitor/delivery trips per day. Trip generation rate consistent with the project-specific trip generation used in the traffic analysis. No operations on Sunday.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment - Operational visitors/deliveries only run - zeroed out area-source parameters

Energy Use - Operational visitors/deliveries run - zeroed out building parameters

Water And Wastewater - Operational visitors/deliveries run

Solid Waste - Operational visitors/deliveries run

Construction Off-road Equipment Mitigation -

Fleet Mix - The CalEEMod default vehicle fleet mix was used to represent visitor/delivery trips.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	0.35	0.00

Unmitigated Project Operations - Visitors/Deliveries - Contra Costa County, Annual

tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	1.07	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	0.07	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	3.40	0.00
tblLandscapeEquipment	NumberSummerDays	180	1
tblLandUse	LandUseSquareFeet	152,460.00	152,452.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblLandUse	LotAcreage	0.45	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblSolidWaste	SolidWasteGenerationRate	70.78	0.00
tblSolidWaste	SolidWasteGenerationRate	0.30	0.00
tblSolidWaste	SolidWasteGenerationRate	1.08	0.00

tblSolidWaste	SolidWasteGenerationRate	24.20	0.00
tblSolidWaste	SolidWasteGenerationRate	9.15	0.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	2.41
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	2.41
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	0.00
tblWater	IndoorWaterUseRate	26,563.78	0.00
tblWater	IndoorWaterUseRate	4,514,000.00	0.00
tblWater	IndoorWaterUseRate	2,250,062.50	0.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00
tblWater	OutdoorWaterUseRate	4,170,184.72	0.00
tblWater	OutdoorWaterUseRate	16,281.02	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated Project Operations - Visitors/Deliveries - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.0041	0.0041
		Highest	0.0041	0.0041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0117	0.0559	0.1458	5.1000e-004	0.0439	4.4000e-004	0.0444	0.0118	4.1000e-004	0.0122	0.0000	46.3215	46.3215	1.6300e-003	0.0000	46.3623
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2173**	**0.0559**	**0.1458**	**5.1000e-004**	**0.0439**	**4.4000e-004**	**0.0444**	**0.0118**	**4.1000e-004**	**0.0122**	**0.0000**	**46.3215**	**46.3215**	**1.6300e-003**	**0.0000**	**46.3623**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0117	0.0559	0.1458	5.1000e-004	0.0439	4.4000e-004	0.0444	0.0118	4.1000e-004	0.0122	0.0000	46.3215	46.3215	1.6300e-003	0.0000	46.3623
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2173**	**0.0559**	**0.1458**	**5.1000e-004**	**0.0439**	**4.4000e-004**	**0.0444**	**0.0118**	**4.1000e-004**	**0.0122**	**0.0000**	**46.3215**	**46.3215**	**1.6300e-003**	**0.0000**	**46.3623**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0117	0.0559	0.1458	5.1000e-004	0.0439	4.4000e-004	0.0444	0.0118	4.1000e-004	0.0122	0.0000	46.3215	46.3215	1.6300e-003	0.0000	46.3623
Unmitigated	0.0117	0.0559	0.1458	5.1000e-004	0.0439	4.4000e-004	0.0444	0.0118	4.1000e-004	0.0122	0.0000	46.3215	46.3215	1.6300e-003	0.0000	46.3623

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	47.00	47.00	0.00	117,615	117,615
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	47.00	47.00	0.00	117,615	117,615

4.3 Trip Type Information

Unmitigated Project Operations - Visitors/Deliveries - Contra Costa County, Annual

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
City Park	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Gasoline/Service Station	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
General Light Industry	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Non-Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Parking Lot	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Unrefrigerated Warehouse-No Rail	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated Project Operations - Visitors/Deliveries - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated Project Operations - Visitors/Deliveries - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

Unmitigated Project Operations - Visitors/Deliveries - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Unmitigated Project Operations - Visitors/Deliveries - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated 2026 Operations - Employee Trips, Building, and Area

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.52	1000sqft	0.44	19,520.00	0
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.87	Acre	0.87	37,897.20	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
City Park	3.50	Acre	3.50	152,452.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated 2026 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

Project Characteristics - Area, Building, and Employee Vehicle Operations. Full project buildout modeled in the buildout year (2026).
Adjusted CO2e to reflect updated factors and compliance with RPS.

Land Use - Based on project description (see supporting information for notes on CalEEMod land use selection).
Full project buildout (Phases 1 -3).

Construction Phase - Operational run - zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - 138 employee trips per weekday, consistent with the project-specific trip generation used in the traffic analysis. No operations on Sunday.
The employee vehicle trip length was taken from the VMT Analysis Screening memo.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater - As noted in the project description, it is estimated that the existing warehouse building would demand approximately 1,280 gallons per day (gpd) of water and the Phase 2 and Phase 3 buildings would each demand approximately 1,860 gpd (5,000 gpd total).

Solid Waste -

Construction Off-road Equipment Mitigation -

Fleet Mix - Employee vehicle fleet mix (2026 passenger vehicle fleet mix)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.60	0.64
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.01	0.00

Unmitigated 2026 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

tblFleetMix	LHD2	4.9110e-003	0.00
tblFleetMix	MCY	5.2240e-003	0.00
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	7.2500e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.6500e-003	0.00
tblFleetMix	SBUS	2.6990e-003	0.00
tblFleetMix	UBUS	1.6250e-003	0.00
tblLandUse	LandUseSquareFeet	152,460.00	152,452.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblLandUse	LotAcreage	0.45	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	CC_TL	7.30	10.70
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	10.70
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	10.70
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	0.54

tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	7.07
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	580,320.00
tblWater	IndoorWaterUseRate	4,514,000.00	580,320.00
tblWater	IndoorWaterUseRate	2,250,062.50	399,360.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated 2026 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.0041	0.0041
		Highest	0.0041	0.0041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Energy	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	108.9578	108.9578	6.3900e-003	2.1200e-003	109.7501
Mobile	0.0149	0.0232	0.2644	1.1200e-003	0.1430	7.9000e-004	0.1438	0.0380	7.3000e-004	0.0387	0.0000	101.4611	101.4611	1.5800e-003	0.0000	101.5007
Waste						0.0000	0.0000		0.0000	0.0000	21.4176	0.0000	21.4176	1.2657	0.0000	53.0611
Water						0.0000	0.0000		0.0000	0.0000	0.5033	3.0567	3.5601	0.0520	1.2800e-003	5.2428
Total	**0.2564**	**0.0744**	**0.3080**	**1.4300e-003**	**0.1430**	**4.6800e-003**	**0.1476**	**0.0380**	**4.6200e-003**	**0.0426**	**21.9209**	**213.4767**	**235.3976**	**1.3257**	**3.4000e-003**	**269.5558**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Energy	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	108.9578	108.9578	6.3900e-003	2.1200e-003	109.7501
Mobile	0.0149	0.0232	0.2644	1.1200e-003	0.1430	7.9000e-004	0.1438	0.0380	7.3000e-004	0.0387	0.0000	101.4611	101.4611	1.5800e-003	0.0000	101.5007
Waste						0.0000	0.0000		0.0000	0.0000	21.4176	0.0000	21.4176	1.2657	0.0000	53.0611
Water						0.0000	0.0000		0.0000	0.0000	0.5033	3.0567	3.5601	0.0520	1.2800e-003	5.2428
Total	**0.2564**	**0.0744**	**0.3080**	**1.4300e-003**	**0.1430**	**4.6800e-003**	**0.1476**	**0.0380**	**4.6200e-003**	**0.0426**	**21.9209**	**213.4767**	**235.3976**	**1.3257**	**3.4000e-003**	**269.5558**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0149	0.0232	0.2644	1.1200e-003	0.1430	7.9000e-004	0.1438	0.0380	7.3000e-004	0.0387	0.0000	101.4611	101.4611	1.5800e-003	0.0000	101.5007
Unmitigated	0.0149	0.0232	0.2644	1.1200e-003	0.1430	7.9000e-004	0.1438	0.0380	7.3000e-004	0.0387	0.0000	101.4611	101.4611	1.5800e-003	0.0000	101.5007

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	138.00	10.62	0.00	389,822	389,822
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	138.00	10.62	0.00	389,822	389,822

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	10.70	10.70	10.70	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
City Park	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Gasoline/Service Station	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
General Light Industry	0.642814	0.038573	0.197808	0.120805	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Other Non-Asphalt Surfaces	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Parking Lot	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Unrefrigerated Warehouse-No Rail	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated 2026 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	53.1900	53.1900	5.3200e-003	1.1000e-003	53.6509
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	53.1900	53.1900	5.3200e-003	1.1000e-003	53.6509
NaturalGas Mitigated	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	55.7678	55.7678	1.0700e-003	1.0200e-003	56.0992
NaturalGas Unmitigated	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	55.7678	55.7678	1.0700e-003	1.0200e-003	56.0992

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	488901	2.6400e-003	0.0240	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0896	26.0896	5.0000e-004	4.8000e-004	26.2446
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	7448.39	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3975	0.3975	1.0000e-005	1.0000e-005	0.3998
General Light Industry	514938	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4790	27.4790	5.3000e-004	5.0000e-004	27.6423
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**5.6400e-003**	**0.0512**	**0.0430**	**3.0000e-004**		**3.9000e-003**	**3.9000e-003**		**3.9000e-003**	**3.9000e-003**	**0.0000**	**55.7678**	**55.7678**	**1.0700e-003**	**1.0200e-003**	**56.0992**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	488901	2.6400e-003	0.0240	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0896	26.0896	5.0000e-004	4.8000e-004	26.2446
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	7448.39	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3975	0.3975	1.0000e-005	1.0000e-005	0.3998
General Light Industry	514938	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4790	27.4790	5.3000e-004	5.0000e-004	27.6423
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**5.6400e-003**	**0.0512**	**0.0430**	**3.0000e-004**		**3.9000e-003**	**3.9000e-003**		**3.9000e-003**	**3.9000e-003**	**0.0000**	**55.7678**	**55.7678**	**1.0700e-003**	**1.0200e-003**	**56.0992**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	153083	20.1368	2.0100e-003	4.2000e-004	20.3113
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	2332.21	0.3068	3.0000e-005	1.0000e-005	0.3094
General Light Industry	161235	21.2092	2.1200e-003	4.4000e-004	21.3930
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	53361	7.0192	7.0000e-004	1.5000e-004	7.0800
Unrefrigerated Warehouse-No Rail	34346.9	4.5181	4.5000e-004	9.0000e-005	4.5572
Total		**53.1900**	**5.3100e-003**	**1.1100e-003**	**53.6509**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	153083	20.1368	2.0100e-003	4.2000e-004	20.3113
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	2332.21	0.3068	3.0000e-005	1.0000e-005	0.3094
General Light Industry	161235	21.2092	2.1200e-003	4.4000e-004	21.3930
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	53361	7.0192	7.0000e-004	1.5000e-004	7.0800
Unrefrigerated Warehouse-No Rail	34346.9	4.5181	4.5000e-004	9.0000e-005	4.5572
Total		**53.1900**	**5.3100e-003**	**1.1100e-003**	**53.6509**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Unmitigated	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Total	**0.2359**	**0.0000**	**5.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0500e-003**	**1.0500e-003**	**0.0000**	**0.0000**	**1.1200e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Total	**0.2359**	**0.0000**	**5.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0500e-003**	**1.0500e-003**	**0.0000**	**0.0000**	**1.1200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Unmitigated 2026 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.5601	0.0520	1.2800e-003	5.2428
Unmitigated	3.5601	0.0520	1.2800e-003	5.2428

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.58032 / 0	0.5972	0.0190	4.6000e-004	1.2065
City Park	0 / 4.17018	1.9199	1.9000e-004	4.0000e-005	1.9366
Gasoline/Service Station	0.0265638 / 0.016281	0.0348	8.7000e-004	2.0000e-005	0.0628
General Light Industry	0.58032 / 0	0.5972	0.0190	4.6000e-004	1.2065
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.4110	0.0130	3.1000e-004	0.8303
Total		**3.5600**	**0.0520**	**1.2900e-003**	**5.2428**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.58032 / 0	0.5972	0.0190	4.6000e-004	1.2065
City Park	0 / 4.17018	1.9199	1.9000e-004	4.0000e-005	1.9366
Gasoline/Service Station	0.0265638 / 0.016281	0.0348	8.7000e-004	2.0000e-005	0.0628
General Light Industry	0.58032 / 0	0.5972	0.0190	4.6000e-004	1.2065
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.4110	0.0130	3.1000e-004	0.8303
Total		**3.5600**	**0.0520**	**1.2900e-003**	**5.2428**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Unmitigated 2026 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.4176	1.2657	0.0000	53.0611
Unmitigated	21.4176	1.2657	0.0000	53.0611

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	70.78	14.3677	0.8491	0.0000	35.5954
City Park	0.3	0.0609	3.6000e-003	0.0000	0.1509
Gasoline/Service Station	1.08	0.2192	0.0130	0.0000	0.5431
General Light Industry	24.2	4.9124	0.2903	0.0000	12.1702
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**21.4176**	**1.2658**	**0.0000**	**53.0611**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	70.78	14.3677	0.8491	0.0000	35.5954
City Park	0.3	0.0609	3.6000e-003	0.0000	0.1509
Gasoline/Service Station	1.08	0.2192	0.0130	0.0000	0.5431
General Light Industry	24.2	4.9124	0.2903	0.0000	12.1702
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**21.4176**	**1.2658**	**0.0000**	**53.0611**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated 2026 Operations - Project Truck Operations

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.52	1000sqft	0.44	19,520.00	0
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.87	Acre	0.87	37,897.20	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
City Park	3.50	Acre	3.50	152,452.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated 2026 Operations - Project Truck Operations - Contra Costa County, Annual

Project Characteristics - Truck Operations - 2026. Full project buildout modeled in the buildout year (2026).
Adjusted CO2e to reflect updated factors and compliance with RPS.

Land Use - Based on project description (see supporting information for notes on CalEEMod land use selection).
Full project buildout (Phases 1 -3).

Construction Phase - Operational truck only run – zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational truck only run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - 130 truck trips per weekday.
Truck trip generation rate consistent with the project-specific trip generation used in the traffic analysis.
Adjusted trip length to 47.5 miles to match project-specific truck trip length.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Operational truck only run - zeroed out area parameters

Landscape Equipment - Operational truck only run - zeroed out area parameters

Energy Use - Operational truck only run - zeroed out building parameters

Water And Wastewater - Operational truck only run - water and wastewater in a separate run

Solid Waste - Operational truck only run

Construction Off-road Equipment Mitigation -

Fleet Mix - Truck only operational fleet mix

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00

Unmitigated 2026 Operations - Project Truck Operations - Contra Costa County, Annual

tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	1.07	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	0.07	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	3.40	0.00
tblFleetMix	HHD	0.03	1.00
tblFleetMix	LDA	0.60	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.9110e-003	0.00
tblFleetMix	MCY	5.2240e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	7.2500e-004	0.00

Unmitigated 2026 Operations - Project Truck Operations - Contra Costa County, Annual

tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.6500e-003	0.00
tblFleetMix	SBUS	2.6990e-003	0.00
tblFleetMix	UBUS	1.6250e-003	0.00
tblLandscapeEquipment	NumberSummerDays	180	1
tblLandUse	LandUseSquareFeet	152,460.00	152,452.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblLandUse	LotAcreage	0.45	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblSolidWaste	SolidWasteGenerationRate	70.78	0.00
tblSolidWaste	SolidWasteGenerationRate	0.30	0.00
tblSolidWaste	SolidWasteGenerationRate	1.08	0.00
tblSolidWaste	SolidWasteGenerationRate	24.20	0.00
tblSolidWaste	SolidWasteGenerationRate	9.15	0.00
tblVehicleTrips	CC_TL	7.30	47.50
tblVehicleTrips	CNW_TL	7.30	47.50
tblVehicleTrips	CW_TL	9.50	47.50
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	1.02
tblVehicleTrips	ST_TR	1.68	0.00

tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	6.66
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	0.00
tblWater	IndoorWaterUseRate	26,563.78	0.00
tblWater	IndoorWaterUseRate	4,514,000.00	0.00
tblWater	IndoorWaterUseRate	2,250,062.50	0.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00
tblWater	OutdoorWaterUseRate	4,170,184.72	0.00
tblWater	OutdoorWaterUseRate	16,281.02	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated 2026 Operations - Project Truck Operations - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.0041	0.0041
		Highest	0.0041	0.0041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1738	4.5087	1.7174	0.0275	0.7003	0.0112	0.7115	0.1925	0.0107	0.2032	0.0000	2,662.2885	2,662.2885	0.0891	0.0000	2,664.5148
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.3793**	**4.5087**	**1.7174**	**0.0275**	**0.7003**	**0.0112**	**0.7115**	**0.1925**	**0.0107**	**0.2032**	**0.0000**	**2,662.2886**	**2,662.2886**	**0.0891**	**0.0000**	**2,664.5148**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1738	4.5087	1.7174	0.0275	0.7003	0.0112	0.7115	0.1925	0.0107	0.2032	0.0000	2,662.2885	2,662.2885	0.0891	0.0000	2,664.5148
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.3793**	**4.5087**	**1.7174**	**0.0275**	**0.7003**	**0.0112**	**0.7115**	**0.1925**	**0.0107**	**0.2032**	**0.0000**	**2,662.2886**	**2,662.2886**	**0.0891**	**0.0000**	**2,664.5148**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1738	4.5087	1.7174	0.0275	0.7003	0.0112	0.7115	0.1925	0.0107	0.2032	0.0000	2,662.2885	2,662.2885	0.0891	0.0000	2,664.5148
Unmitigated	0.1738	4.5087	1.7174	0.0275	0.7003	0.0112	0.7115	0.1925	0.0107	0.2032	0.0000	2,662.2885	2,662.2885	0.0891	0.0000	2,664.5148

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	130.00	20.00	0.00	1,654,900	1,654,900
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	130.00	20.00	0.00	1,654,900	1,654,900

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	47.50	47.50	47.50	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
City Park	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Gasoline/Service Station	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Other Non-Asphalt Surfaces	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Parking Lot	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Unrefrigerated Warehouse-No Rail	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated 2026 Operations - Project Truck Operations - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

Unmitigated 2026 Operations - Project Truck Operations - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Unmitigated 2026 Operations - Project Truck Operations - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated 2026 Operations - Visitors/Deliveries

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.52	1000sqft	0.44	19,520.00	0
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.87	Acre	0.87	37,897.20	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
City Park	3.50	Acre	3.50	152,452.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated 2026 Operations - Visitors/Deliveries - Contra Costa County, Annual

Project Characteristics - Visitors/Deliveries 2026. Full project buildout modeled in the buildout year (2026).
Adjusted CO2e to reflect updated factors and compliance with RPS.

Land Use - Based on project description (see supporting information for notes on CalEEMod land use selection).
Full project buildout (Phases 1 -3).

Construction Phase - Operational visitors/deliveries only run – zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational visitors/deliveries only run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - 47 visitor/delivery trips per day. Trip generation rate consistent with the project-specific trip generation used in the traffic analysis. No operations on Sunday.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment - Operational visitors/deliveries only run - zeroed out area-source parameters

Energy Use - Operational visitors/deliveries run - zeroed out building parameters

Water And Wastewater - Operational visitors/deliveries run

Solid Waste - Operational visitors/deliveries run

Construction Off-road Equipment Mitigation -

Fleet Mix - The CalEEMod default vehicle fleet mix was used to represent visitor/delivery trips.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	0.35	0.00

Unmitigated 2026 Operations - Visitors/Deliveries - Contra Costa County, Annual

tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	1.07	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	0.07	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	3.40	0.00
tblLandscapeEquipment	NumberSummerDays	180	1
tblLandUse	LandUseSquareFeet	152,460.00	152,452.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblLandUse	LotAcreage	0.45	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblSolidWaste	SolidWasteGenerationRate	70.78	0.00
tblSolidWaste	SolidWasteGenerationRate	0.30	0.00
tblSolidWaste	SolidWasteGenerationRate	1.08	0.00

tblSolidWaste	SolidWasteGenerationRate	24.20	0.00
tblSolidWaste	SolidWasteGenerationRate	9.15	0.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	2.41
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	2.41
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	0.00
tblWater	IndoorWaterUseRate	26,563.78	0.00
tblWater	IndoorWaterUseRate	4,514,000.00	0.00
tblWater	IndoorWaterUseRate	2,250,062.50	0.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00
tblWater	OutdoorWaterUseRate	4,170,184.72	0.00
tblWater	OutdoorWaterUseRate	16,281.02	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated 2026 Operations - Visitors/Deliveries - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.0041	0.0041
		Highest	0.0041	0.0041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.3500e-003	0.0373	0.1026	4.3000e-004	0.0439	3.2000e-004	0.0442	0.0118	3.0000e-004	0.0121	0.0000	39.1905	39.1905	1.1900e-003	0.0000	39.2202
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2139**	**0.0373**	**0.1026**	**4.3000e-004**	**0.0439**	**3.2000e-004**	**0.0442**	**0.0118**	**3.0000e-004**	**0.0121**	**0.0000**	**39.1905**	**39.1905**	**1.1900e-003**	**0.0000**	**39.2202**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.3500e-003	0.0373	0.1026	4.3000e-004	0.0439	3.2000e-004	0.0442	0.0118	3.0000e-004	0.0121	0.0000	39.1905	39.1905	1.1900e-003	0.0000	39.2202
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2139**	**0.0373**	**0.1026**	**4.3000e-004**	**0.0439**	**3.2000e-004**	**0.0442**	**0.0118**	**3.0000e-004**	**0.0121**	**0.0000**	**39.1905**	**39.1905**	**1.1900e-003**	**0.0000**	**39.2202**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.3500e-003	0.0373	0.1026	4.3000e-004	0.0439	3.2000e-004	0.0442	0.0118	3.0000e-004	0.0121	0.0000	39.1905	39.1905	1.1900e-003	0.0000	39.2202
Unmitigated	8.3500e-003	0.0373	0.1026	4.3000e-004	0.0439	3.2000e-004	0.0442	0.0118	3.0000e-004	0.0121	0.0000	39.1905	39.1905	1.1900e-003	0.0000	39.2202

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	47.00	47.00	0.00	117,615	117,615
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	47.00	47.00	0.00	117,615	117,615

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
City Park	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Gasoline/Service Station	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
General Light Industry	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Other Asphalt Surfaces	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Other Non-Asphalt Surfaces	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Parking Lot	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725
Unrefrigerated Warehouse-No Rail	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.025450	0.001650	0.001625	0.005224	0.002699	0.000725

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated 2026 Operations - Visitors/Deliveries - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated 2026 Operations - Visitors/Deliveries - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

Unmitigated 2026 Operations - Visitors/Deliveries - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Unmitigated 2026 Operations - Visitors/Deliveries - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated 2030 Operations - Employee Trips, Building, and Area

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.52	1000sqft	0.44	19,520.00	0
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.87	Acre	0.87	37,897.20	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
City Park	3.50	Acre	3.50	152,452.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	184	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated 2030 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

Project Characteristics - Area, Building, and Employee Vehicle Operations. Full project buildout modeled in the 2030 operational year.
Adjusted CO2e to reflect updated factors and compliance with RPS.

Land Use - Based on project description (see supporting information for notes on CalEEMod land use selection).
Full project buildout (Phases 1 -3).

Construction Phase - Operational run - zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - 138 employee trips per weekday, consistent with the project-specific trip generation used in the traffic analysis. No operations on Sunday.
The employee vehicle trip length was taken from the VMT Analysis Screening memo.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater - As noted in the project description, it is estimated that the existing warehouse building would demand approximately 1,280 gallons per day (gpd) of water and the Phase 2 and Phase 3 buildings would each demand approximately 1,860 gpd (5,000 gpd total).

Solid Waste -

Construction Off-road Equipment Mitigation -

Fleet Mix - Employee vehicle fleet mix (passenger vehicle fleet mix for 2030)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.61	0.65
tblFleetMix	LDT1	0.03	0.04
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.01	0.00

Unmitigated 2030 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

tblFleetMix	LHD2	4.8360e-003	0.00
tblFleetMix	MCY	5.1050e-003	0.00
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	6.5900e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.6620e-003	0.00
tblFleetMix	SBUS	2.6520e-003	0.00
tblFleetMix	UBUS	1.5380e-003	0.00
tblLandUse	LandUseSquareFeet	152,460.00	152,452.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblLandUse	LotAcreage	0.45	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	184
tblVehicleTrips	CC_TL	7.30	10.70
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	10.70
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	10.70
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	0.54

tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	7.07
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	580,320.00
tblWater	IndoorWaterUseRate	4,514,000.00	580,320.00
tblWater	IndoorWaterUseRate	2,250,062.50	399,360.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated 2030 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.0041	0.0041
		Highest	0.0041	0.0041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Energy	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	89.5159	89.5159	6.3900e-003	2.1200e-003	90.3083
Mobile	0.0114	0.0169	0.2090	9.9000e-004	0.1430	6.1000e-004	0.1436	0.0380	5.6000e-004	0.0386	0.0000	89.3662	89.3662	1.1400e-003	0.0000	89.3945
Waste						0.0000	0.0000		0.0000	0.0000	21.4176	0.0000	21.4176	1.2657	0.0000	53.0611
Water						0.0000	0.0000		0.0000	0.0000	0.5033	1.9394	2.4428	0.0520	1.2800e-003	4.1255
Total	**0.2529**	**0.0681**	**0.2526**	**1.3000e-003**	**0.1430**	**4.5000e-003**	**0.1475**	**0.0380**	**4.4500e-003**	**0.0425**	**21.9209**	**180.8226**	**202.7435**	**1.3253**	**3.4000e-003**	**236.8905**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Energy	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	89.5159	89.5159	6.3900e-003	2.1200e-003	90.3083
Mobile	0.0114	0.0169	0.2090	9.9000e-004	0.1430	6.1000e-004	0.1436	0.0380	5.6000e-004	0.0386	0.0000	89.3662	89.3662	1.1400e-003	0.0000	89.3945
Waste						0.0000	0.0000		0.0000	0.0000	21.4176	0.0000	21.4176	1.2657	0.0000	53.0611
Water						0.0000	0.0000		0.0000	0.0000	0.5033	1.9394	2.4428	0.0520	1.2800e-003	4.1255
Total	**0.2529**	**0.0681**	**0.2526**	**1.3000e-003**	**0.1430**	**4.5000e-003**	**0.1475**	**0.0380**	**4.4500e-003**	**0.0425**	**21.9209**	**180.8226**	**202.7435**	**1.3253**	**3.4000e-003**	**236.8905**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0114	0.0169	0.2090	9.9000e-004	0.1430	6.1000e-004	0.1436	0.0380	5.6000e-004	0.0386	0.0000	89.3662	89.3662	1.1400e-003	0.0000	89.3945
Unmitigated	0.0114	0.0169	0.2090	9.9000e-004	0.1430	6.1000e-004	0.1436	0.0380	5.6000e-004	0.0386	0.0000	89.3662	89.3662	1.1400e-003	0.0000	89.3945

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	138.00	10.62	0.00	389,822	389,822
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	138.00	10.62	0.00	389,822	389,822

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	10.70	10.70	10.70	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
City Park	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Gasoline/Service Station	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
General Light Industry	0.649136	0.037347	0.197286	0.116232	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Non-Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Parking Lot	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Unrefrigerated Warehouse-No Rail	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated 2030 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33.7481	33.7481	5.3200e-003	1.1000e-003	34.2090
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33.7481	33.7481	5.3200e-003	1.1000e-003	34.2090
NaturalGas Mitigated	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	55.7678	55.7678	1.0700e-003	1.0200e-003	56.0992
NaturalGas Unmitigated	5.6400e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	55.7678	55.7678	1.0700e-003	1.0200e-003	56.0992

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	488901	2.6400e-003	0.0240	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0896	26.0896	5.0000e-004	4.8000e-004	26.2446
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	7448.39	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3975	0.3975	1.0000e-005	1.0000e-005	0.3998
General Light Industry	514938	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4790	27.4790	5.3000e-004	5.0000e-004	27.6423
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**5.6400e-003**	**0.0512**	**0.0430**	**3.0000e-004**		**3.9000e-003**	**3.9000e-003**		**3.9000e-003**	**3.9000e-003**	**0.0000**	**55.7678**	**55.7678**	**1.0700e-003**	**1.0200e-003**	**56.0992**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	488901	2.6400e-003	0.0240	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0896	26.0896	5.0000e-004	4.8000e-004	26.2446
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	7448.39	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3975	0.3975	1.0000e-005	1.0000e-005	0.3998
General Light Industry	514938	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4790	27.4790	5.3000e-004	5.0000e-004	27.6423
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**5.6400e-003**	**0.0512**	**0.0430**	**3.0000e-004**		**3.9000e-003**	**3.9000e-003**		**3.9000e-003**	**3.9000e-003**	**0.0000**	**55.7678**	**55.7678**	**1.0700e-003**	**1.0200e-003**	**56.0992**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	153083	12.7764	2.0100e-003	4.2000e-004	12.9509
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	2332.21	0.1947	3.0000e-005	1.0000e-005	0.1973
General Light Industry	161235	13.4569	2.1200e-003	4.4000e-004	13.6406
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	53361	4.4536	7.0000e-004	1.5000e-004	4.5144
Unrefrigerated Warehouse-No Rail	34346.9	2.8666	4.5000e-004	9.0000e-005	2.9058
Total		**33.7481**	**5.3100e-003**	**1.1100e-003**	**34.2090**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	153083	12.7764	2.0100e-003	4.2000e-004	12.9509
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	2332.21	0.1947	3.0000e-005	1.0000e-005	0.1973
General Light Industry	161235	13.4569	2.1200e-003	4.4000e-004	13.6406
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	53361	4.4536	7.0000e-004	1.5000e-004	4.5144
Unrefrigerated Warehouse-No Rail	34346.9	2.8666	4.5000e-004	9.0000e-005	2.9058
Total		**33.7481**	**5.3100e-003**	**1.1100e-003**	**34.2090**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Unmitigated	0.2359	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Total	**0.2359**	**0.0000**	**5.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0500e-003**	**1.0500e-003**	**0.0000**	**0.0000**	**1.1200e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0500e-003	1.0500e-003	0.0000	0.0000	1.1200e-003
Total	**0.2359**	**0.0000**	**5.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0500e-003**	**1.0500e-003**	**0.0000**	**0.0000**	**1.1200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Unmitigated 2030 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.4428	0.0520	1.2800e-003	4.1255
Unmitigated	2.4428	0.0520	1.2800e-003	4.1255

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.58032 / 0	0.4462	0.0190	4.6000e-004	1.0556
City Park	0 / 4.17018	1.2182	1.9000e-004	4.0000e-005	1.2348
Gasoline/Service Station	0.0265638 / 0.016281	0.0252	8.7000e-004	2.0000e-005	0.0531
General Light Industry	0.58032 / 0	0.4462	0.0190	4.6000e-004	1.0556
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.3071	0.0130	3.1000e-004	0.7264
Total		**2.4428**	**0.0520**	**1.2900e-003**	**4.1255**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.58032 / 0	0.4462	0.0190	4.6000e-004	1.0556
City Park	0 / 4.17018	1.2182	1.9000e-004	4.0000e-005	1.2348
Gasoline/Service Station	0.0265638 / 0.016281	0.0252	8.7000e-004	2.0000e-005	0.0531
General Light Industry	0.58032 / 0	0.4462	0.0190	4.6000e-004	1.0556
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.3071	0.0130	3.1000e-004	0.7264
Total		**2.4428**	**0.0520**	**1.2900e-003**	**4.1255**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Unmitigated 2030 Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.4176	1.2657	0.0000	53.0611
Unmitigated	21.4176	1.2657	0.0000	53.0611

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	70.78	14.3677	0.8491	0.0000	35.5954
City Park	0.3	0.0609	3.6000e-003	0.0000	0.1509
Gasoline/Service Station	1.08	0.2192	0.0130	0.0000	0.5431
General Light Industry	24.2	4.9124	0.2903	0.0000	12.1702
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**21.4176**	**1.2658**	**0.0000**	**53.0611**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	70.78	14.3677	0.8491	0.0000	35.5954
City Park	0.3	0.0609	3.6000e-003	0.0000	0.1509
Gasoline/Service Station	1.08	0.2192	0.0130	0.0000	0.5431
General Light Industry	24.2	4.9124	0.2903	0.0000	12.1702
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**21.4176**	**1.2658**	**0.0000**	**53.0611**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated 2030 Operations - Project Truck Operations

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.52	1000sqft	0.44	19,520.00	0
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.87	Acre	0.87	37,897.20	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
City Park	3.50	Acre	3.50	152,452.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	184	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated 2030 Operations - Project Truck Operations - Contra Costa County, Annual

Project Characteristics - Truck Operations - 2030. Full project buildout modeled in the 2030 operational year.
Adjusted CO2e to reflect updated factors and compliance with RPS.

Land Use - Based on project description (see supporting information for notes on CalEEMod land use selection).
Full project buildout (Phases 1 -3).

Construction Phase - Operational truck only run – zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational truck only run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - 130 truck trips per weekday.
Truck trip generation rate consistent with the project-specific trip generation used in the traffic analysis.
Adjusted trip length to 47.5 miles to match project-specific truck trip length.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Operational truck only run - zeroed out area parameters

Landscape Equipment - Operational truck only run - zeroed out area parameters

Energy Use - Operational truck only run - zeroed out building parameters

Water And Wastewater - Operational truck only run - water and wastewater in a separate run

Solid Waste - Operational truck only run

Construction Off-road Equipment Mitigation -

Fleet Mix - Truck only operational fleet mix

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00

Unmitigated 2030 Operations - Project Truck Operations - Contra Costa County, Annual

tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	1.07	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	0.07	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	3.40	0.00
tblFleetMix	HHD	0.03	1.00
tblFleetMix	LDA	0.61	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.8360e-003	0.00
tblFleetMix	MCY	5.1050e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	6.5900e-004	0.00

Unmitigated 2030 Operations - Project Truck Operations - Contra Costa County, Annual

tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.6620e-003	0.00
tblFleetMix	SBUS	2.6520e-003	0.00
tblFleetMix	UBUS	1.5380e-003	0.00
tblLandscapeEquipment	NumberSummerDays	180	1
tblLandUse	LandUseSquareFeet	152,460.00	152,452.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblLandUse	LotAcreage	0.45	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	184
tblSolidWaste	SolidWasteGenerationRate	70.78	0.00
tblSolidWaste	SolidWasteGenerationRate	0.30	0.00
tblSolidWaste	SolidWasteGenerationRate	1.08	0.00
tblSolidWaste	SolidWasteGenerationRate	24.20	0.00
tblSolidWaste	SolidWasteGenerationRate	9.15	0.00
tblVehicleTrips	CC_TL	7.30	47.50
tblVehicleTrips	CNW_TL	7.30	47.50
tblVehicleTrips	CW_TL	9.50	47.50
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	1.02
tblVehicleTrips	ST_TR	1.68	0.00

tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	6.66
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	0.00
tblWater	IndoorWaterUseRate	26,563.78	0.00
tblWater	IndoorWaterUseRate	4,514,000.00	0.00
tblWater	IndoorWaterUseRate	2,250,062.50	0.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00
tblWater	OutdoorWaterUseRate	4,170,184.72	0.00
tblWater	OutdoorWaterUseRate	16,281.02	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated 2030 Operations - Project Truck Operations - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.0041	0.0041
		Highest	0.0041	0.0041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1675	4.0941	1.7351	0.0269	0.7005	0.0104	0.7109	0.1925	9.9900e-003	0.2025	0.0000	2,609.5907	2,609.5907	0.0883	0.0000	2,611.7983
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.3730**	**4.0941**	**1.7351**	**0.0269**	**0.7005**	**0.0104**	**0.7109**	**0.1925**	**9.9900e-003**	**0.2025**	**0.0000**	**2,609.5908**	**2,609.5908**	**0.0883**	**0.0000**	**2,611.7984**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1675	4.0941	1.7351	0.0269	0.7005	0.0104	0.7109	0.1925	9.9900e-003	0.2025	0.0000	2,609.5907	2,609.5907	0.0883	0.0000	2,611.7983
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.3730**	**4.0941**	**1.7351**	**0.0269**	**0.7005**	**0.0104**	**0.7109**	**0.1925**	**9.9900e-003**	**0.2025**	**0.0000**	**2,609.5908**	**2,609.5908**	**0.0883**	**0.0000**	**2,611.7984**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1675	4.0941	1.7351	0.0269	0.7005	0.0104	0.7109	0.1925	9.9900e-003	0.2025	0.0000	2,609.5907	2,609.5907	0.0883	0.0000	2,611.7983
Unmitigated	0.1675	4.0941	1.7351	0.0269	0.7005	0.0104	0.7109	0.1925	9.9900e-003	0.2025	0.0000	2,609.5907	2,609.5907	0.0883	0.0000	2,611.7983

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	130.00	20.00	0.00	1,654,900	1,654,900
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	130.00	20.00	0.00	1,654,900	1,654,900

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	47.50	47.50	47.50	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
City Park	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Gasoline/Service Station	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Non-Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Parking Lot	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Unrefrigerated Warehouse-No Rail	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated 2030 Operations - Project Truck Operations - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

Unmitigated 2030 Operations - Project Truck Operations - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Unmitigated 2030 Operations - Project Truck Operations - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Unmitigated 2030 Operations - Visitors/Deliveries

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.52	1000sqft	0.44	19,520.00	0
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0
Other Asphalt Surfaces	0.87	Acre	0.87	37,897.20	0
Other Non-Asphalt Surfaces	1.31	Acre	1.31	57,063.60	0
Parking Lot	3.50	Acre	3.50	152,460.00	0
City Park	3.50	Acre	3.50	152,452.00	0
Automobile Care Center	18.53	1000sqft	0.43	18,533.00	0
Gasoline/Service Station	2.00	Pump	0.01	282.35	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	184	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Unmitigated 2030 Operations - Visitors/Deliveries - Contra Costa County, Annual

Project Characteristics - Visitors/Deliveries 2030. Full project buildout modeled in the 2030 operational year.
Adjusted CO2e to reflect updated factors and compliance with RPS.

Land Use - Based on project description (see supporting information for notes on CalEEMod land use selection).
Full project buildout (Phases 1 -3).

Construction Phase - Operational visitors/deliveries only run – zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational visitors/deliveries only run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - 47 visitor/delivery trips per day. Trip generation rate consistent with the project-specific trip generation used in the traffic analysis. No operations on Sunday.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment - Operational visitors/deliveries only run - zeroed out area-source parameters

Energy Use - Operational visitors/deliveries run - zeroed out building parameters

Water And Wastewater - Operational visitors/deliveries run

Solid Waste - Operational visitors/deliveries run

Construction Off-road Equipment Mitigation -

Fleet Mix - The CalEEMod default vehicle fleet mix was used to represent visitor/delivery trips.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	0.35	0.00

Unmitigated 2030 Operations - Visitors/Deliveries - Contra Costa County, Annual

tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	1.07	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	NT24NG	0.07	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	19.71	0.00
tblEnergyUse	T24NG	3.40	0.00
tblLandscapeEquipment	NumberSummerDays	180	1
tblLandUse	LandUseSquareFeet	152,460.00	152,452.00
tblLandUse	LandUseSquareFeet	18,530.00	18,533.00
tblLandUse	LotAcreage	0.45	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	184
tblSolidWaste	SolidWasteGenerationRate	70.78	0.00
tblSolidWaste	SolidWasteGenerationRate	0.30	0.00
tblSolidWaste	SolidWasteGenerationRate	1.08	0.00

tblSolidWaste	SolidWasteGenerationRate	24.20	0.00
tblSolidWaste	SolidWasteGenerationRate	9.15	0.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	1.32	2.41
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	6.97	2.41
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	1,743,322.92	0.00
tblWater	IndoorWaterUseRate	26,563.78	0.00
tblWater	IndoorWaterUseRate	4,514,000.00	0.00
tblWater	IndoorWaterUseRate	2,250,062.50	0.00
tblWater	OutdoorWaterUseRate	1,068,488.24	0.00
tblWater	OutdoorWaterUseRate	4,170,184.72	0.00
tblWater	OutdoorWaterUseRate	16,281.02	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Unmitigated 2030 Operations - Visitors/Deliveries - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.0041	0.0041
		Highest	0.0041	0.0041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	6.8900e-003	0.0326	0.0843	3.9000e-004	0.0439	2.5000e-004	0.0441	0.0118	2.3000e-004	0.0120	0.0000	35.5841	35.5841	1.0200e-003	0.0000	35.6097
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2124**	**0.0326**	**0.0843**	**3.9000e-004**	**0.0439**	**2.5000e-004**	**0.0441**	**0.0118**	**2.3000e-004**	**0.0120**	**0.0000**	**35.5841**	**35.5841**	**1.0200e-003**	**0.0000**	**35.6097**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	6.8900e-003	0.0326	0.0843	3.9000e-004	0.0439	2.5000e-004	0.0441	0.0118	2.3000e-004	0.0120	0.0000	35.5841	35.5841	1.0200e-003	0.0000	35.6097
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2124**	**0.0326**	**0.0843**	**3.9000e-004**	**0.0439**	**2.5000e-004**	**0.0441**	**0.0118**	**2.3000e-004**	**0.0120**	**0.0000**	**35.5841**	**35.5841**	**1.0200e-003**	**0.0000**	**35.6097**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	5.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7200e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.8900e-003	0.0326	0.0843	3.9000e-004	0.0439	2.5000e-004	0.0441	0.0118	2.3000e-004	0.0120	0.0000	35.5841	35.5841	1.0200e-003	0.0000	35.6097
Unmitigated	6.8900e-003	0.0326	0.0843	3.9000e-004	0.0439	2.5000e-004	0.0441	0.0118	2.3000e-004	0.0120	0.0000	35.5841	35.5841	1.0200e-003	0.0000	35.6097

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	47.00	47.00	0.00	117,615	117,615
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	47.00	47.00	0.00	117,615	117,615

4.3 Trip Type Information

Unmitigated 2030 Operations - Visitors/Deliveries - Contra Costa County, Annual

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
City Park	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Gasoline/Service Station	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
General Light Industry	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Non-Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Parking Lot	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Unrefrigerated Warehouse-No Rail	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Unmitigated 2030 Operations - Visitors/Deliveries - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated 2030 Operations - Visitors/Deliveries - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	0.2055	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**0.2055**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

Unmitigated 2030 Operations - Visitors/Deliveries - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Unmitigated 2030 Operations - Visitors/Deliveries - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Gasoline/Service Station	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Existing Truck Operations (2021 Scenario)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Existing Truck Operations (2021 Scenario) - Contra Costa County, Annual

Project Characteristics - Existing Truck Operations - 2021 Scenario

Land Use - Existing

Construction Phase - Operational truck only run – zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational truck only run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - Relocated truck trips. 130 truck trips per weekday.
Truck trip generation rate consistent with the project-specific trip generation used in the traffic analysis.
Adjusted trip length to 47.5 miles to match project-specific truck trip length.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater - Existing

Solid Waste -

Construction Off-road Equipment Mitigation -

Fleet Mix - Truck only operational fleet mix

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	1.00
tblFleetMix	HHD	0.02	1.00
tblFleetMix	LDA	0.58	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00

tblFleetMix	LHD2	5.0830e-003	0.00
tblFleetMix	MCY	5.4540e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7100e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.6050e-003	0.00
tblFleetMix	SBUS	2.7460e-003	0.00
tblFleetMix	UBUS	1.8100e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	CC_TL	7.30	47.50
tblVehicleTrips	CNW_TL	7.30	47.50
tblVehicleTrips	CW_TL	9.50	47.50
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	13.36
tblWater	IndoorWaterUseRate	2,250,062.50	399,360.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Existing Truck Operations (2021 Scenario) - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Energy	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	6.3198	6.3198	4.9000e-004	1.3000e-004	6.3696
Mobile	0.2707	8.5889	1.8351	0.0288	0.6792	0.0327	0.7119	0.1866	0.0313	0.2179	0.0000	2,774.3524	2,774.3524	0.0971	0.0000	2,776.7791
Waste						0.0000	0.0000		0.0000	0.0000	1.8574	0.0000	1.8574	0.1098	0.0000	4.6016
Water						0.0000	0.0000		0.0000	0.0000	0.1267	0.2843	0.4110	0.0130	3.1000e-004	0.8303
Total	**0.3140**	**8.5906**	**1.8366**	**0.0288**	**0.6792**	**0.0329**	**0.7120**	**0.1866**	**0.0314**	**0.2181**	**1.9841**	**2,780.9566**	**2,782.9407**	**0.2204**	**4.4000e-004**	**2,788.5808**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Energy	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	6.3198	6.3198	4.9000e-004	1.3000e-004	6.3696
Mobile	0.2707	8.5889	1.8351	0.0288	0.6792	0.0327	0.7119	0.1866	0.0313	0.2179	0.0000	2,774.3524	2,774.3524	0.0971	0.0000	2,776.7791
Waste						0.0000	0.0000		0.0000	0.0000	1.8574	0.0000	1.8574	0.1098	0.0000	4.6016
Water						0.0000	0.0000		0.0000	0.0000	0.1267	0.2843	0.4110	0.0130	3.1000e-004	0.8303
Total	**0.3140**	**8.5906**	**1.8366**	**0.0288**	**0.6792**	**0.0329**	**0.7120**	**0.1866**	**0.0314**	**0.2181**	**1.9841**	**2,780.9566**	**2,782.9407**	**0.2204**	**4.4000e-004**	**2,788.5808**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2707	8.5889	1.8351	0.0288	0.6792	0.0327	0.7119	0.1866	0.0313	0.2179	0.0000	2,774.3524	2,774.3524	0.0971	0.0000	2,776.7791
Unmitigated	0.2707	8.5889	1.8351	0.0288	0.6792	0.0327	0.7119	0.1866	0.0313	0.2179	0.0000	2,774.3524	2,774.3524	0.0971	0.0000	2,776.7791

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	130.00	0.00	0.00	1,605,500	1,605,500
Total	130.00	0.00	0.00	1,605,500	1,605,500

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	47.50	47.50	47.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5181	4.5181	4.5000e-004	9.0000e-005	4.5572
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5181	4.5181	4.5000e-004	9.0000e-005	4.5572
NaturalGas Mitigated	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
NaturalGas Unmitigated	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**1.8000e-004**	**1.6600e-003**	**1.3900e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**1.8017**	**1.8017**	**3.0000e-005**	**3.0000e-005**	**1.8124**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**1.8000e-004**	**1.6600e-003**	**1.3900e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**1.8017**	**1.8017**	**3.0000e-005**	**3.0000e-005**	**1.8124**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	34346.9	4.5181	4.5000e-004	9.0000e-005	4.5572
Total		**4.5181**	**4.5000e-004**	**9.0000e-005**	**4.5572**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	34346.9	4.5181	4.5000e-004	9.0000e-005	4.5572
Total		**4.5181**	**4.5000e-004**	**9.0000e-005**	**4.5572**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Unmitigated	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0380					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Total	**0.0431**	**0.0000**	**9.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.0000**	**1.9000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0380					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Total	**0.0431**	**0.0000**	**9.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.0000**	**1.9000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.4110	0.0130	3.1000e-004	0.8303
Unmitigated	0.4110	0.0130	3.1000e-004	0.8303

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.4110	0.0130	3.1000e-004	0.8303
Total		**0.4110**	**0.0130**	**3.1000e-004**	**0.8303**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.4110	0.0130	3.1000e-004	0.8303
Total		**0.4110**	**0.0130**	**3.1000e-004**	**0.8303**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.8574	0.1098	0.0000	4.6016
Unmitigated	1.8574	0.1098	0.0000	4.6016

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**1.8574**	**0.1098**	**0.0000**	**4.6016**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**1.8574**	**0.1098**	**0.0000**	**4.6016**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Existing Truck Operations (2026 Scenario)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Existing Truck Operations (2026 Scenario) - Contra Costa County, Annual

Project Characteristics - Existing Truck Operations - 2026 Scenario

Land Use - Existing

Construction Phase - Operational truck only run – zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational truck only run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - Relocated truck trips. 130 truck trips per weekday.
Truck trip generation rate consistent with the project-specific trip generation used in the traffic analysis.
Adjusted trip length to 47.5 miles to match project-specific truck trip length.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater - Existing

Solid Waste -

Construction Off-road Equipment Mitigation -

Fleet Mix - Truck only operational fleet mix

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	1.00
tblFleetMix	HHD	0.03	1.00
tblFleetMix	LDA	0.60	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00

tblFleetMix	LHD2	4.9110e-003	0.00
tblFleetMix	MCY	5.2240e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	7.2500e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.6500e-003	0.00
tblFleetMix	SBUS	2.6990e-003	0.00
tblFleetMix	UBUS	1.6250e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	CC_TL	7.30	47.50
tblVehicleTrips	CNW_TL	7.30	47.50
tblVehicleTrips	CW_TL	9.50	47.50
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	13.36
tblWater	IndoorWaterUseRate	2,250,062.50	399,360.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Existing Truck Operations (2026 Scenario) - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Energy	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	6.3198	6.3198	4.9000e-004	1.3000e-004	6.3696
Mobile	0.1686	4.3741	1.6662	0.0267	0.6794	0.0109	0.6903	0.1867	0.0104	0.1971	0.0000	2,582.8173	2,582.8173	0.0864	0.0000	2,584.9770
Waste						0.0000	0.0000		0.0000	0.0000	1.8574	0.0000	1.8574	0.1098	0.0000	4.6016
Water						0.0000	0.0000		0.0000	0.0000	0.1267	0.2843	0.4110	0.0130	3.1000e-004	0.8303
Total	**0.2118**	**4.3757**	**1.6676**	**0.0267**	**0.6794**	**0.0110**	**0.6904**	**0.1867**	**0.0105**	**0.1973**	**1.9841**	**2,589.4215**	**2,591.4056**	**0.2097**	**4.4000e-004**	**2,596.7787**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Energy	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	6.3198	6.3198	4.9000e-004	1.3000e-004	6.3696
Mobile	0.1686	4.3741	1.6662	0.0267	0.6794	0.0109	0.6903	0.1867	0.0104	0.1971	0.0000	2,582.8173	2,582.8173	0.0864	0.0000	2,584.9770
Waste						0.0000	0.0000		0.0000	0.0000	1.8574	0.0000	1.8574	0.1098	0.0000	4.6016
Water						0.0000	0.0000		0.0000	0.0000	0.1267	0.2843	0.4110	0.0130	3.1000e-004	0.8303
Total	**0.2118**	**4.3757**	**1.6676**	**0.0267**	**0.6794**	**0.0110**	**0.6904**	**0.1867**	**0.0105**	**0.1973**	**1.9841**	**2,589.4215**	**2,591.4056**	**0.2097**	**4.4000e-004**	**2,596.7787**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1686	4.3741	1.6662	0.0267	0.6794	0.0109	0.6903	0.1867	0.0104	0.1971	0.0000	2,582.8173	2,582.8173	0.0864	0.0000	2,584.9770
Unmitigated	0.1686	4.3741	1.6662	0.0267	0.6794	0.0109	0.6903	0.1867	0.0104	0.1971	0.0000	2,582.8173	2,582.8173	0.0864	0.0000	2,584.9770

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	130.00	0.00	0.00	1,605,500	1,605,500
Total	130.00	0.00	0.00	1,605,500	1,605,500

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	47.50	47.50	47.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5181	4.5181	4.5000e-004	9.0000e-005	4.5572
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5181	4.5181	4.5000e-004	9.0000e-005	4.5572
NaturalGas Mitigated	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
NaturalGas Unmitigated	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**1.8000e-004**	**1.6600e-003**	**1.3900e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**1.8017**	**1.8017**	**3.0000e-005**	**3.0000e-005**	**1.8124**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**1.8000e-004**	**1.6600e-003**	**1.3900e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**1.8017**	**1.8017**	**3.0000e-005**	**3.0000e-005**	**1.8124**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	34346.9	4.5181	4.5000e-004	9.0000e-005	4.5572
Total		**4.5181**	**4.5000e-004**	**9.0000e-005**	**4.5572**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	34346.9	4.5181	4.5000e-004	9.0000e-005	4.5572
Total		**4.5181**	**4.5000e-004**	**9.0000e-005**	**4.5572**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Unmitigated	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0380					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Total	**0.0431**	**0.0000**	**9.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.0000**	**1.9000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0380					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Total	**0.0431**	**0.0000**	**9.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.0000**	**1.9000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.4110	0.0130	3.1000e-004	0.8303
Unmitigated	0.4110	0.0130	3.1000e-004	0.8303

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.4110	0.0130	3.1000e-004	0.8303
Total		**0.4110**	**0.0130**	**3.1000e-004**	**0.8303**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.4110	0.0130	3.1000e-004	0.8303
Total		**0.4110**	**0.0130**	**3.1000e-004**	**0.8303**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.8574	0.1098	0.0000	4.6016
Unmitigated	1.8574	0.1098	0.0000	4.6016

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**1.8574**	**0.1098**	**0.0000**	**4.6016**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**1.8574**	**0.1098**	**0.0000**	**4.6016**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Existing Truck Operations (2030 Scenario)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	0.22	9,730.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	184	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Existing Truck Operations (2030 Scenario) - Contra Costa County, Annual

Project Characteristics - Existing Truck Operations - 2030 Scenario

Land Use - Existing

Construction Phase - Operational truck only run – zeroed out construction parameters

Off-road Equipment -

Off-road Equipment - Operational truck only run - zeroed out construction parameters

Trips and VMT -

Grading -

Vehicle Trips - Relocated truck trips. 130 truck trips per weekday.
Truck trip generation rate consistent with the project-specific trip generation used in the traffic analysis.
Adjusted trip length to 47.5 miles to match project-specific truck trip length.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater - Existing

Solid Waste -

Construction Off-road Equipment Mitigation -

Fleet Mix - Truck only operational fleet mix

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	1.00
tblFleetMix	HHD	0.03	1.00
tblFleetMix	LDA	0.61	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00

tblFleetMix	LHD2	4.8360e-003	0.00
tblFleetMix	MCY	5.1050e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	6.5900e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.6620e-003	0.00
tblFleetMix	SBUS	2.6520e-003	0.00
tblFleetMix	UBUS	1.5380e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	184
tblVehicleTrips	CC_TL	7.30	47.50
tblVehicleTrips	CNW_TL	7.30	47.50
tblVehicleTrips	CW_TL	9.50	47.50
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	13.36
tblWater	IndoorWaterUseRate	2,250,062.50	399,360.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Existing Truck Operations (2030 Scenario) - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Energy	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	4.6684	4.6684	4.9000e-004	1.3000e-004	4.7182
Mobile	0.1625	3.9719	1.6833	0.0261	0.6796	0.0101	0.6897	0.1868	9.6900e-003	0.1965	0.0000	2,531.6926	2,531.6926	0.0857	0.0000	2,533.8343
Waste						0.0000	0.0000		0.0000	0.0000	1.8574	0.0000	1.8574	0.1098	0.0000	4.6016
Water						0.0000	0.0000		0.0000	0.0000	0.1267	0.1804	0.3071	0.0130	3.1000e-004	0.7264
Total	**0.2057**	**3.9736**	**1.6848**	**0.0261**	**0.6796**	**0.0103**	**0.6898**	**0.1868**	**9.8200e-003**	**0.1966**	**1.9841**	**2,536.5414**	**2,538.5255**	**0.2090**	**4.4000e-004**	**2,543.8806**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Energy	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	4.6684	4.6684	4.9000e-004	1.3000e-004	4.7182
Mobile	0.1625	3.9719	1.6833	0.0261	0.6796	0.0101	0.6897	0.1868	9.6900e-003	0.1965	0.0000	2,531.6926	2,531.6926	0.0857	0.0000	2,533.8343
Waste						0.0000	0.0000		0.0000	0.0000	1.8574	0.0000	1.8574	0.1098	0.0000	4.6016
Water						0.0000	0.0000		0.0000	0.0000	0.1267	0.1804	0.3071	0.0130	3.1000e-004	0.7264
Total	**0.2057**	**3.9736**	**1.6848**	**0.0261**	**0.6796**	**0.0103**	**0.6898**	**0.1868**	**9.8200e-003**	**0.1966**	**1.9841**	**2,536.5414**	**2,538.5255**	**0.2090**	**4.4000e-004**	**2,543.8806**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2021	6/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Rollers	0	0.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1625	3.9719	1.6833	0.0261	0.6796	0.0101	0.6897	0.1868	9.6900e-003	0.1965	0.0000	2,531.6926	2,531.6926	0.0857	0.0000	2,533.8343
Unmitigated	0.1625	3.9719	1.6833	0.0261	0.6796	0.0101	0.6897	0.1868	9.6900e-003	0.1965	0.0000	2,531.6926	2,531.6926	0.0857	0.0000	2,533.8343

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	130.00	0.00	0.00	1,605,500	1,605,500
Total	130.00	0.00	0.00	1,605,500	1,605,500

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	47.50	47.50	47.50	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.8666	2.8666	4.5000e-004	9.0000e-005	2.9058
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.8666	2.8666	4.5000e-004	9.0000e-005	2.9058
NaturalGas Mitigated	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
NaturalGas Unmitigated	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**1.8000e-004**	**1.6600e-003**	**1.3900e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**1.8017**	**1.8017**	**3.0000e-005**	**3.0000e-005**	**1.8124**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	33763.1	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8017	1.8017	3.0000e-005	3.0000e-005	1.8124
Total		**1.8000e-004**	**1.6600e-003**	**1.3900e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**1.8017**	**1.8017**	**3.0000e-005**	**3.0000e-005**	**1.8124**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	34346.9	2.8666	4.5000e-004	9.0000e-005	2.9058
Total		**2.8666**	**4.5000e-004**	**9.0000e-005**	**2.9058**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	34346.9	2.8666	4.5000e-004	9.0000e-005	2.9058
Total		**2.8666**	**4.5000e-004**	**9.0000e-005**	**2.9058**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Unmitigated	0.0431	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0380					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Total	**0.0431**	**0.0000**	**9.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.0000**	**1.9000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0380					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.9000e-004
Total	**0.0431**	**0.0000**	**9.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.0000**	**1.9000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3071	0.0130	3.1000e-004	0.7264
Unmitigated	0.3071	0.0130	3.1000e-004	0.7264

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.3071	0.0130	3.1000e-004	0.7264
Total		**0.3071**	**0.0130**	**3.1000e-004**	**0.7264**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0.39936 / 0	0.3071	0.0130	3.1000e-004	0.7264
Total		**0.3071**	**0.0130**	**3.1000e-004**	**0.7264**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.8574	0.1098	0.0000	4.6016
Unmitigated	1.8574	0.1098	0.0000	4.6016

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**1.8574**	**0.1098**	**0.0000**	**4.6016**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	9.15	1.8574	0.1098	0.0000	4.6016
Total		**1.8574**	**0.1098**	**0.0000**	**4.6016**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

ATTACHMENT B

Additional Supporting Information

Construction Assumptions for the Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Construction Schedule

Phase Name	Start Date	End Date	Days per Week	Workdays
Phase 1				
Site Preparation	6/1/2021	6/14/2021	5	10
Grading	6/15/2021	7/12/2021	5	20
Paving	7/13/2021	8/9/2021	5	20
Phase 2				
Site Preparation	6/1/2023	6/1/2023	5	1
Grading	6/2/2023	6/5/2023	5	2
Building Construction	6/6/2023	10/23/2023	5	100
Paving	9/15/2023	9/21/2023	5	5
Architectural Coating	10/24/2023	10/30/2023	5	5
Phase 3				
Site Preparation	6/1/2026	6/1/2026	5	1
Grading	6/2/2026	6/3/2026	5	2
Building Construction	6/4/2026	10/21/2026	5	100
Paving	9/15/2026	9/21/2026	5	5
Architectural Coating	10/24/2026	10/30/2026	5	5

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Average Daily Usage Hours	Horse Power	Load Factor
Phase 1					
Site Preparation	Rubber Tired Dozers	3	8	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	2	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.40
Grading	Scrapers	2	8	367	0.48
Paving	Pavers	2	8	130	0.42
Phase 2					
Site Preparation	Graders	1	8	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37
Grading	Concrete/Industrial Saws	1	8	81	0.73
Grading	Rubber Tired Dozers	1	1	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37
Building Construction	Cranes	1	4	231	0.29
Building Construction	Forklifts	2	6	89	0.2
Building Construction	Tractors/Loaders/Backhoes	2	8	97	0.37
Paving	Cement and Mortar Mixers	4	6	9	0.56
Paving	Pavers	1	7	130	0.42
Paving	Rollers	1	7	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48
Phase 3					
Site Preparation	Graders	1	8	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37
Grading	Concrete/Industrial Saws	1	8	81	0.73
Grading	Rubber Tired Dozers	1	1	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37
Building Construction	Cranes	1	4	231	0.29
Building Construction	Forklifts	2	6	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8	97	0.37
Paving	Cement and Mortar Mixers	4	6	9	0.56
Paving	Pavers	1	7	130	0.42
Paving	Rollers	1	7	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips

Phase Name	Worker Trip Number (Trips per Day)	Vendor Trip Number (Trips per Day)	Hauling Trip Number (Total Trips)	Worker Trip Length (miles)	Vendor Trip Length (miles)	Hauling Trip Length (miles)
Phase 1						
Site Preparation	30	0	14	10.8	7.3	20
Grading	30	0	481	10.8	7.3	20
Paving	30	8	4	10.8	7.3	20
Phase 2						
Site Preparation	30	0	4	10.8	7.3	20
Grading	30	0	236	10.8	7.3	20
Building Construction	30	5	10	10.8	7.3	20
Paving	30	0	14	10.8	7.3	20
Architectural Coating	30	0	2	10.8	7.3	20
Phase 3						
Site Preparation	30	0	6	10.8	7.3	20
Grading	30	0	151	10.8	7.3	20
Building Construction	30	12	16	10.8	7.3	20
Paving	30	0	12	10.8	7.3	20
Architectural Coating	30	0	2	10.8	7.3	20

Import and Export During Project Construction

It is estimated that the total amount of earth movement for the proposed project would require approximately 14,285 cubic yards of cut and approximately 11,385 cubic yards of fill, some of which would be balanced on-site.

Table: Estimated Cut and Fill

Activity	Phase 1	Phase 2	Phase 3	Total
Cut (CY)	10,490	40	3,755	14,285
Fill (CY)	6,735	2,345	2,305	11,385
Material to be Imported or Exported (CY)	**3,755 (export)**	**2,305 (import)**	**1,450 (export)**	**7,510* (import and export)**

Notes:

CY = cubic yard

* Total calculated by adding the net export or import from each phase together to show the total amount of material to be imported or exported.

Land Use CalEEMod Inputs for Construction

Land Uses	Size	Metric	Floor Surface Area	Lot Acreage	Notes
Phase 1					
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	9,730.00	0.22	
Other Asphalt Surfaces	0.73	Acre	31,798.80	0.73	
Other Non-Asphalt Surfaces	134.62	1000sqft	33,655.00	3.09	Landscaping (assumed 25% paved)
Parking Lot	3.5	Acre	152,460.00	3.5	
Gasoline/Service Station	2	Pump	282.35	0.01	
Phase 2					
General Light Industry	1.02	1000sqft	1,020.00	0.02	
Other Asphalt Surfaces	0.14	Acre	6,098.40	0.14	
Other Non-Asphalt Surfaces	17.83	1000sqft	4,458.00	0.41	Landscaping (assumed 25% paved)
Automobile Care Center	18.53	1000sqft	18,533.00	0.43	
Phase 3					
General Light Industry	18.5	1000sqft	18,500.00	0.42	
Other Non-Asphalt Surfaces	1.31	Acre	57,063.60	1.31	
			Total Acreage	**10.28**	

Land Use CalEEMod Inputs for Operations

Land Uses	Size	Metric	Floor Surface Area	Lot Acreage	Notes
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	9,730.00	0.22	
Gasoline/Service Station	2.00	Pump	282.35	0.01	
General Light Industry	19.52	1000sqft	19,520.00	0.44	
Automobile Care Center	18.53	1000sqft	18,533.00	0.43	
Other Asphalt Surfaces	0.87	Acre	37,897.20	0.87	
Other Non-Asphalt Surfaces	1.31	Acre	57,063.60	1.31	
Parking Lot	3.50	Acre	152,460.00	3.50	
City Park (Landscaping)	152.45	1000sqft	152,452.00	3.50	Landscaping (park to account for outdoor water use)
			Total Acreage	**10.28**	

As noted in the project description, it is estimated that the existing warehouse building would demand approximately 1,280 gallons per day (gpd) of water and the Phase 2 and Phase 3 buildings would each demand approximately 1,860 gpd (5,000 gpd total).

	Gallons per Day	Days per year*	Gallons per Year
Existing Building	1,280	312	399,360
Phase 2 New Building	1,860	312	580,320
Phase 3 New Building	1,860	312	580,320
Total	**5,000**	—	**1,560,000**

* Days per year based on weekdays (52*5) plus Saturdays (52).
260+52 = 312

Mt. Diablo Resource Recovery Truck Maintenance Facility Project Operational Fleet Mix Adjustments

2021

Default Contra Costa County 2021														**Total**
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.582299	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.00181	0.005454	0.002746	0.000871	1.00000

Employees (Passenger Vehicles)														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
Default Light Duty Fleet Mix	0.582299	0.039109	0.186022	0.123408	0	0	0	0	0	0	0	0	0	0.930838
Difference to be allocated	0.069162													

Revised Passenger Cars Fleet Mix 2021														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.625564	0.042015	0.199844	0.132577	0	0	0	0	0	0	0	0	0	1.00000

2026

Default Contra Costa County 2026														**Total**
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.02545	0.00165	0.001625	0.005224	0.002699	0.000725	1.00000

Employees (Passenger Vehicles)														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
Default Light Duty Fleet Mix	0.599857	0.035995	0.184589	0.112732	0	0	0	0	0	0	0	0	0	0.933173
Difference to be allocated	0.066827													

Revised Passenger Cars Fleet Mix 2026														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.642814	0.038573	0.197808	0.120805	0	0	0	0	0	0	0	0	0	1.00000

2030

Default Contra Costa County 2030														**Total**
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.0262	0.001662	0.001538	0.005105	0.002652	0.000659	1.00000

Employees (Passenger Vehicles)														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
Default Light Duty Fleet Mix	0.606524	0.034895	0.184335	0.108602	0	0	0	0	0	0	0	0	0	0.934356
Difference to be allocated	0.065644													

Revised Passenger Cars Fleet Mix 2030														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.649136	0.037347	0.197286	0.116232	0	0	0	0	0	0	0	0	0	1.00000

Pacific Gas & Electric (PG&E) CO2 Intensity Factors

Table 1. PG&E's 2017 Electric Power Mix

Power Source	Percent of Total Mix
Eligible Renewable	33%
Natural Gas	20%
Nuclear	27%
Large Hydroelectric	18%
Coal	0%
Other	0%
Unspecified Power	2%
Non-Renewable Total	67%
Total	**100%**

Table 2. PG&E's 2017 CO_2 Intensity Factors[2]

Power Source	Individual Intensity Factors
Eligible Renewable	146
Natural Gas	439
Nuclear	146
Large Hydroelectric	146
Coal	439
Other	439
Unspecified Power	439
Weighted Average	**210**

Table 3. PG&E's 2030 Electric Power Mix[1]

Power Source	Percent of Total Mix
Eligible Renewable	60%
Natural Gas	12%
Nuclear	16%
Large Hydroelectric	11%
Coal	0%
Other	0%
Unspecified Power	1%
Non-Renewable Total	40%
Total	**100%**

Table 4. PG&E's 2030 CO_2 Intensity Factors[3]

Power Source	Weighted Intensity Factors
Eligible Renewable	146
Natural Gas	439
Nuclear	146
Large Hydroelectric	146
Coal	439
Other	439
Unspecified Power	439
Weighted Average	**184**

Notes:

[1] Adjustment to 2030 power mix is based on equal proportions of generation sources in 2017. The total proportion for renewable sources was adjusted from 33% to 60% to comply with Senate Bill 100's 2030 performance goals.

[2] PG&E's total CO_2 emission intensity factor of 210 lbs/MWh and CO2 emission intensity factor specifically for all owned generation sources of 146 lbs/MWh were identified in PG&E's 2018 and 2019 Corporate Responsibility and Sustainability Reports; however, the CO_2 emission intensity factor for non-owned sources is unknown. Therefore, the 2017 CO_2 emission intensity factor for all non-owned generation sources were identified based on the given 210 lbs/MWh and 146 lbs/MWh values and the 2017 power mix.

[3] PG&E's 2030 CO_2 emission intensity factor is based on equal proportions of renewable and non-renewable generation sources in 2017, as seen in Table 3. The only factor that was uniquely adjusted was the change of eligible renewable energy sources total proportion from 33% to 60% to comply with Senate Bill 100's 2030 performance goals. The CO_2 emission intensity factor is the weighted average using the adjusted renewable generation proportion (see Table 3) and the identified source intensity factors for 2017 (see Table 2).

PG&E's CO2 Emission Intensity Factor (2017)

PG&E's 2019 Corporate Responsibility and Sustainability Report, page 116

Voluntary Emissions Reporting

PG&E's voluntary greenhouse gas emissions reporting showed that PG&E's CO_2 emissions rate was our lowest level on record in 2017, the most recent year for which verified data are available. PG&E's emissions rate of 210 pounds of CO_2 per megawatt-hour of delivered electricity represented a more than 28 percent drop from the prior year's figure of 294. The emissions rate takes into account both PG&E-owned power generation and power purchased from third parties.

In addition, PG&E saw a corresponding reduction in total CO_2 emissions from its electricity sales, falling 2.7 million metric tons in 2017.

From year to year, several factors affect PG&E's power mix and emissions, including the availability of clean hydro power and renewable energy in our energy mix, customer electricity demand, the share of customers in our service area receiving procurement service from PG&E, as well as the availability and flexibility of the power plants in our portfolio.

Benchmarking Greenhouse Gas Emissions for Delivered Electricity
(Pounds of CO_2 per MWh)

U.S. Average[1]	998
Pacific Gas and Electric Company[2]	
2017	210
2016	294
2015	405
2014	435
2013	427
2012	445
2011	393
2010	445

1. U.S. Environmental Protection Agency eGRID 2017.
2. Because PG&E purchases a portion of its electricity from the wholesale market, we are not able to track some of our delivered electricity back to a specific generator. Therefore, there is some unavoidable uncertainty in PG&E's total emissions and emissions rate for delivered electricity.

PG&E's Renewable Power Mix (2017)

PG&E's 2018 Corporate Responsibility and Sustainability Report, page 47

Measuring Progress

By the end of 2017, 33 percent of the electricity that we delivered to customers came from Renewables Portfolio Standard-eligible resources. The chart below shows our overall electricity supply mix for 2017, which included both the energy that PG&E generated and the energy that PG&E purchased from third parties on behalf of customers.

PG&E's 2017 Electric Power Mix Delivered to Retail Customers

Eligible Renewable (see accompanying breakdown)	33%
Natural Gas	20%
Nuclear	27%
Large Hydroelectric	18%
Coal[1]	0%
Other[2]	0%
Unspecified Power[3]	2%

1. Refers to PG&E electricity generated under contracts with third parties.
2. Includes diesel oil and petroleum coke (a waste byproduct of oil refining).
3. Refers to electricity from transactions that are not traceable to specific generation sources.

Breakdown: Composition of PG&E's 2017 Total Eligible Renewable Resources[1]

Solar	13%
Wind	8%
Geothermal	5%
Biomass and Waste	4%
Eligible Hydroelectric	3%

1. As defined in Senate Bill 1078, which created California's Renewables Portfolio Standard, and Senate Bill 1038, which modified the definition of "in-state renewable electricity generation technology," an eligible renewable resource includes geothermal facilities, hydroelectric facilities with a capacity rating of 30 MW or less, biomass and biogas, selected municipal solid waste facilities, photovoltaic, solar thermal, and wind facilities, ocean thermal, tidal current, and wave energy generation technologies. These figures are preliminary and will not be finalized until verified by the California Energy Commission.

PG&E's Renewable Power Mix (2017)

PG&E's 2018 Corporate Responsibility and Sustainability Report, page 149

PG&E Emissions Reported to the California Air Resources Board: CO_2-e Emissions from Owned Power Generation[1] and Operations

	2015	2016	2017
Total CO_2-e Emissions (metric tons)	**2,875,094**	**2,261,032**	**2,292,218**
Humboldt Bay Generating Station	186,330	171,892	199,338
Gateway Generating Station	1,305,914	963,413	1,111,268
Colusa Generating Station	1,382,850	1,125,772	981,613
CO_2 Emissions Rates (lbs/MWh)			
Humboldt Bay Generating Station	1,010	1,029	1,017
Gateway Generating Station	868	871	881
Colusa Generating Station	853	852	866
Fossil Plants	868	872	940
All Plants[2]	208	153	146
Other CO_2-e Emissions (metric tons)			
Natural Gas Compressor Stations[3]	362,417	295,851	262,060
Distribution Fugitive Natural Gas Emissions	676,458	605,690	630,249
Customer Natural Gas Use[4]	43,022,557	38,697,656	38,202,174

1. PG&E's owned generation comprised more than 50 percent of our delivered electricity in 2017.
2. Includes all PG&E-owned generation sources, including nuclear, hydroelectric and renewable energy.
3. Includes, but is not limited to, compressor stations and storage facilities emitting more than 25,000 metric tons of CO_2-e annually.
4. Includes emissions from the combustion of natural gas delivered to all entities on PG&E's distribution system, with the exception of gas delivered to other natural gas local distribution companies. This figure does not represent PG&E's compliance obligation under AB 32, which is equivalent to the above-reported value less the emissions from fuel that is delivered to covered entities, as calculated by CARB.

Health Risk Assessment

Attachment C: Project Parameters

Construction Assumptions for the Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Construction Schedule

Phase Name	Start Date	End Date	Days per Week	Workdays
Phase 1				
Site Preparation	6/1/2021	6/14/2021	5	10
Grading	6/15/2021	7/12/2021	5	20
Paving	7/13/2021	8/9/2021	5	20
Phase 2				
Site Preparation	6/1/2023	6/1/2023	5	1
Grading	6/2/2023	6/5/2023	5	2
Building Construction	6/6/2023	10/23/2023	5	100
Paving	9/15/2023	9/21/2023	5	5
Architectural Coating	10/24/2023	10/30/2023	5	5
Phase 3				
Site Preparation	6/1/2026	6/1/2026	5	1
Grading	6/2/2026	6/3/2026	5	2
Building Construction	6/4/2026	10/21/2026	5	100
Paving	9/15/2026	9/21/2026	5	5
Architectural Coating	10/24/2026	10/30/2026	5	5

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Average Daily Usage Hours	Horse Power	Load Factor
Phase 1					
Site Preparation	Rubber Tired Dozers	3	8	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	2	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.40
Grading	Scrapers	2	8	367	0.48
Paving	Pavers	2	8	130	0.42
Phase 2					
Site Preparation	Graders	1	8	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37
Grading	Concrete/Industrial Saws	1	8	81	0.73
Grading	Rubber Tired Dozers	1	1	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37
Building Construction	Cranes	1	4	231	0.29
Building Construction	Forklifts	2	6	89	0.2
Building Construction	Tractors/Loaders/Backhoes	2	8	97	0.37
Paving	Cement and Mortar Mixers	4	6	9	0.56
Paving	Pavers	1	7	130	0.42
Paving	Rollers	1	7	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48
Phase 3					
Site Preparation	Graders	1	8	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37
Grading	Concrete/Industrial Saws	1	8	81	0.73
Grading	Rubber Tired Dozers	1	1	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37
Building Construction	Cranes	1	4	231	0.29
Building Construction	Forklifts	2	6	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8	97	0.37
Paving	Cement and Mortar Mixers	4	6	9	0.56
Paving	Pavers	1	7	130	0.42
Paving	Rollers	1	7	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips

Phase Name	Worker Trip Number (Trips per Day)	Vendor Trip Number (Trips per Day)	Hauling Trip Number (Total Trips)	Worker Trip Length (miles)	Vendor Trip Length (miles)	Hauling Trip Length (miles)
Phase 1						
Site Preparation	30	0	14	10.8	7.3	20
Grading	30	0	481	10.8	7.3	20
Paving	30	8	4	10.8	7.3	20
Phase 2						
Site Preparation	30	0	4	10.8	7.3	20
Grading	30	0	236	10.8	7.3	20
Building Construction	30	5	10	10.8	7.3	20
Paving	30	0	14	10.8	7.3	20
Architectural Coating	30	0	2	10.8	7.3	20
Phase 3						
Site Preparation	30	0	6	10.8	7.3	20
Grading	30	0	151	10.8	7.3	20
Building Construction	30	12	16	10.8	7.3	20
Paving	30	0	12	10.8	7.3	20
Architectural Coating	30	0	2	10.8	7.3	20

Import and Export During Project Construction

It is estimated that the total amount of earth movement for the proposed project would require approximately 14,285 cubic yards of cut and approximately 11,385 cubic yards of fill, some of which would be balanced on-site.

Table: Estimated Cut and Fill

Activity	Phase 1	Phase 2	Phase 3	Total
Cut (CY)	10,490	40	3,755	14,285
Fill (CY)	6,735	2,345	2,305	11,385
Material to be Imported or Exported (CY)	**3,755 (export)**	**2,305 (import)**	**1,450 (export)**	**7,510* (import and export)**

Notes:

CY = cubic yard

* Total calculated by adding the net export or import from each phase together to show the total amount of material to be imported or exported.

Land Use CalEEMod Inputs for Construction

Land Uses	Size	Metric	Floor Surface Area	Lot Acreage	Notes
Phase 1					
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	9,730.00	0.22	
Other Asphalt Surfaces	0.73	Acre	31,798.80	0.73	
Other Non-Asphalt Surfaces	134.62	1000sqft	33,655.00	3.09	Landscaping (assumed 25% paved)
Parking Lot	3.5	Acre	152,460.00	3.5	
Gasoline/Service Station	2	Pump	282.35	0.01	
Phase 2					
General Light Industry	1.02	1000sqft	1,020.00	0.02	
Other Asphalt Surfaces	0.14	Acre	6,098.40	0.14	
Other Non-Asphalt Surfaces	17.83	1000sqft	4,458.00	0.41	Landscaping (assumed 25% paved)
Automobile Care Center	18.53	1000sqft	18,533.00	0.43	
Phase 3					
General Light Industry	18.5	1000sqft	18,500.00	0.42	
Other Non-Asphalt Surfaces	1.31	Acre	57,063.60	1.31	
			Total Acreage	**10.28**	

Land Use CalEEMod Inputs for Operations

Land Uses	Size	Metric	Floor Surface Area	Lot Acreage	Notes
Unrefrigerated Warehouse-No Rail	9.73	1000sqft	9,730.00	0.22	
Gasoline/Service Station	2.00	Pump	282.35	0.01	
General Light Industry	19.52	1000sqft	19,520.00	0.44	
Automobile Care Center	18.53	1000sqft	18,533.00	0.43	
Other Asphalt Surfaces	0.87	Acre	37,897.20	0.87	
Other Non-Asphalt Surfaces	1.31	Acre	57,063.60	1.31	
Parking Lot	3.50	Acre	152,460.00	3.50	
City Park (Landscaping)	152.45	1000sqft	152,452.00	3.50	Landscaping (park to account for outdoor water use)
			Total Acreage	**10.28**	

As noted in the project description, it is estimated that the existing warehouse building would demand approximately 1,280 gallons per day (gpd) of water and the Phase 2 and Phase 3 buildings would each demand approximately 1,860 gpd (5,000 gpd total).

	Gallons per Day	Days per year*	Gallons per Year
Existing Building	1,280	312	399,360
Phase 2 New Building	1,860	312	580,320
Phase 3 New Building	1,860	312	580,320
Total	**5,000**	—	**1,560,000**

* Days per year based on weekdays (52*5) plus Saturdays (52).
260+52 = 312

Mt. Diablo Resource Recovery Truck Maintenance Facility Project Operational Fleet Mix Adjustments

2021

Default Contra Costa County 2021														**Total**
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.582299	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.00181	0.005454	0.002746	0.000871	1.00000

Employees (Passenger Vehicles)														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
Default Light Duty Fleet Mix	0.582299	0.039109	0.186022	0.123408	0	0	0	0	0	0	0	0	0	0.930838
Difference to be allocated	0.069162													

Revised Passenger Cars Fleet Mix 2021														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.625564	0.042015	0.199844	0.132577	0	0	0	0	0	0	0	0	0	1.00000

2026

Default Contra Costa County 2026														**Total**
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.599857	0.035995	0.184589	0.112732	0.013754	0.004911	0.010789	0.02545	0.00165	0.001625	0.005224	0.002699	0.000725	1.00000

Employees (Passenger Vehicles)														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
Default Light Duty Fleet Mix	0.599857	0.035995	0.184589	0.112732	0	0	0	0	0	0	0	0	0	0.933173
Difference to be allocated	0.066827													

Revised Passenger Cars Fleet Mix 2026														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.642814	0.038573	0.197808	0.120805	0	0	0	0	0	0	0	0	0	1.00000

2030

Default Contra Costa County 2030														**Total**
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.0262	0.001662	0.001538	0.005105	0.002652	0.000659	1.00000

Employees (Passenger Vehicles)														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
Default Light Duty Fleet Mix	0.606524	0.034895	0.184335	0.108602	0	0	0	0	0	0	0	0	0	0.934356
Difference to be allocated	0.065644													

Revised Passenger Cars Fleet Mix 2030														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.649136	0.037347	0.197286	0.116232	0	0	0	0	0	0	0	0	0	1.00000

Operational Parameters

Mt. Diablo Resource Recovery Truck Maintenance Facility Project **DPM**

Emission Assumptions

Emission Factors

1) Truck and Auto Exhaust and Idling Emissions
- (1) EMFAC2014 (to be consistent with CalEEMod estimates)
- (a) Calculations for: Contra Costa
- (b) Truck Mix: Fleet Mix estimated based on project trips (see Air Quality and Greenhouse Memo) EMFAC to derive the number of diesel truck vehicles
- (c) Truck Idle Time: 15 minutes (truck idling only applies to HDT vehicles)
- (d) Onsite Vehicle Travel Speed: 10 mph for trucks
- (e) Offsite Vehicle Travel Speed: 25 mph for trucks
- (f) Offsite Vehicle Travel Speed: 35 mph for passenger cars
- (d) Onsite Vehicle Travel Speed: 15 mph for passenger cars

Traffic Allocation

1) Trip generation consistent with the project-specific traffic data
3) Onsite travel emissions generated from diesel vehicles
4) Onsite idling emissions generated only by trucks

Emission Source Configuration

1) Project onsite truck traffic represented by line volume sources
2) Project onsite passenger car traffic represented as line volume sources
2) Project onsite truck idling represented as line volume sources and volume sources
3) Offsite vehicles represented by lines volume sources

Onsite Vehicle Travel Segments

Segment	**Source ID**	**Segment Travel Distance (m)**	
On-site Vehicle Travel (Road Segment 5)—Passenger Vehicles	SLINE5	565.0	
On-site Vehicle Travel (Road Segment 6)—Passenger Vehicles	SLINE6	192.0	
On-site Vehicle Travel (Road Segment 7)—Trucks Incoming	SLINE7	403.2	
On-site Vehicle Travel (Road Segment 8)—Trucks	SLINE8	551.2	
Storage Area On-site Travel	SLINE13	210.9	
Onsite Truck Idling			
On-site Vehicle Travel—Trucks Idle 1	SLINE9	44.0	m
On-site Vehicle Travel—Trucks Idle 2	SLINE10	44.2	m
On-site Vehicle Travel—Trucks Idle 3	SLINE11	31.8	m
On-site Vehicle Travel—Trucks Idle 4	SLINE12	32.4	m
Wash	VOL1	54.3	m2
Entrance	VOL2	132.5	m2

Offsite Vehicle Travel Segments

Segment		**Segment Travel Distance (m)**	
Route 1 (Outgoing)	SLINE1	744.8	m
Route 2 (Incoming)	SLINE2	489.9	m
Route 3 (Outgoing)	SLINE3	772.5	m
Route 4 (Incoming)	SLINE4	497.9	m

Mt. Diablo Resource Recovery Truck Maintenance Facility Project
Vehicle Fleet Mix

	Total Daily Trips (Trips/day)		Employee	Trucks	Visitors	Total Daily Trips
	315	Daily Trips	138	130	47	315
		Fleet Mix	43.8%	41.3%	14.9%	

Vehicle Fleet	Project Vehicle Distribution	Passenger Cars & Trucks Project Vehicle Mix	EMFAC % Diesel	Total Number of Daily Trips	Number of Daily Diesel Trips	Number of Daily Non-Diesel Trips	Total Number of Daily Trips	% Diesel Trips	% Non-Diesel Trips	Total Trips
LDA (Passenger Car)	36.2%	63%	1.14%	197	2	112	114	0.72%	35.80%	
LDT1	2.4%	4.2%	0.07%	13	0	8	8	0.00%	2.44%	
LDT2	11.5%	20.0%	0.19%	63	0	36	36	0.04%	11.60%	
MDV	7.6%	13.2%	1.89%	42	1	23	24	0.00%	7.65%	
SubTotal	57.78%	100.0%		315	3	179	182	0.76%	57.50%	58.26%
LHDT1 (2 axle truck)	0.3%	0.6%	51.8%	1	0	0	1	0.13%	0.12%	
LHDT2	0.1%	0.2%	69.7%	0	0	0	0	0.05%	0.02%	
MHDT (3 axle truck)	0.3%	0.6%	85.5%	1	1	0	1	0.22%	0.04%	
HHDT (4+ axle truck)	41.6%	98.6%	100.0%	128	128	0	128	41.08%	0.00%	
Truck Subtotal	42.22%			130	129	1	130	41.48%	0.18%	41.67%
Total	100.0%				133	179	312	42.50%	57.50%	100.00%

Vehicle Fleet Mix consistent with the project-specific traffic impact analysis report
% Diesel taken from EMFAC2014 (based on percent diesel out of all diesel- and gasoline-fueled)

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Trip Distribution

Vehicle Allocation - Number of Daily Diesel Trips

Allocation of Building Trips

Percent Allocation - On-site Travel

33%	On-site Vehicle Travel (Road Segment 7)—Trucks
33%	On-site Vehicle Travel (Road Segment 8)—Trucks
33%	Storage Area On-site Travel
100%	*Total Diesel Truck Trips*
50%	On-site Vehicle Travel (Road Segment 5)—Passenger Vehicles (DSL auto cars)
50%	On-site Vehicle Travel (Road Segment 6)—Passenger Vehicles (DSL auto cars)
100%	*Total Diesel Auto Car Trips*

Segment - On-site Travel	Source ID	LDA	LDT1	LDT2	MDT	LHDT1	LHDT2	MHDT	HHDT	Total
On-site Vehicle Travel (Road Segment 5)—Passenger Vehicles	SLINE5	1.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	1.6
On-site Vehicle Travel (Road Segment 6)—Passenger Vehicles	SLINE6	1.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	1.6
On-site Vehicle Travel (Road Segment 7)—Trucks Incoming	SLINE7	0.0	0.0	0.0	0.0	0.1	0.1	0.2	42.7	43.1
On-site Vehicle Travel (Road Segment 8)—Trucks	SLINE8	0.0	0.0	0.0	0.0	0.1	0.1	0.2	42.7	43.1
Storage Area On-site Travel	SLINE13	0.0	0.0	0.0	0.0	0.1	0.1	0.2	42.7	43.1
Total Diesel Trucks	—	0	0	0	0	0	0	1	128	130
Total Diesel Passenger Vehicles	—	2	0	0	1	0	0	0	0	3
Total Diese (Trucks + Passenger Vehicles)	—	2	0	0	1	0	0	1	128	133

Percent Allocation - On-site Diesel Truck Idling

25%	On-site Vehicle Travel—Trucks Idle 1
25%	On-site Vehicle Travel—Trucks Idle 2
25%	On-site Vehicle Travel—Trucks Idle 3
25%	On-site Vehicle Travel—Trucks Idle 4
100%	*Total Diesel Truck Trips*
25%	Wash
50%	Entrance

Segment - On-site Travel	Source ID	LDA	LDT1	LDT2	MDT	LHDT1	LHDT2	MHDT	HHDT	Total
On-site Vehicle Travel—Trucks Idle 1	SLINE9	0.0	0.0	0.0	0.0	0.1	0.0	0.2	32.0	32.4
On-site Vehicle Travel—Trucks Idle 2	SLINE10	0.0	0.0	0.0	0.0	0.1	0.0	0.2	32.0	32.4
On-site Vehicle Travel—Trucks Idle 3	SLINE11	0.0	0.0	0.0	0.0	0.1	0.0	0.2	32.0	32.4
On-site Vehicle Travel—Trucks Idle 4	SLINE12	0.0	0.0	0.0	0.0	0.1	0.0	0.2	32.0	32.4
Wash	VOL1	0.0	0.0	0.0	0.0	0.1	0.0	0.2	32.0	32.4
Entrance	VOL2	0.0	0.0	0.0	0.0	0.2	0.1	0.3	64.1	64.7
Total Diesel Idling Instances Per Day	—	0	0	0	0	1	0	1	224	227

Health Risk Assessment

Attachment D: Health Risk Assessment Modeling Results and Calculations (Construction and Operations)

Construction Health Risk Assessment Calculations

Mt. Diablo Resource Recovery Truck Maintenance Facility Project
Phase 1 Construction

Estimation of Annual On-site Construction Emissions

Start of Construction	6/1/2021	
End of Construction	8/23/2021	**Total**
Number of Days	83	83
Number of Hours	1,992	1992

Year	**On-site Construction Activity**	**Unmitigated On-site DPM (tons)**
2021	On-site Site Preparation	0.00940
2021	On-site Grading	0.01620
2021	On-site Paving	0.00231

Total Unmitigated DPM (On-site)	2.791E-02	tons
Average Emission	2.534E+04	grams
	3.534E-03	grams/sec
Total Unmitigated PM2.5 (On-site)	6.641E-02	tons
Average Emission	6.030E+04	grams
	8.409E-03	grams/sec

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Phase 2 Construction

Estimation of Annual On-site Construction Emissions

Start of Construction	6/1/2023	
End of Construction	10/30/2023	**Total**
Number of Days	151	151
Number of Hours	3,624	3624

Year	**On-site Construction Activity**	**Unmitigated On-site DPM (tons)**
2023	On-site Site Preparation	0.00010
2023	On-site Grading	0.00027
2023	On-site Building Construction	0.01470
2023	On-site Paving	0.00062
2023	On-site Architectural Coating	0.00018

Total Unmitigated DPM (On-site)	1.587E-02	tons
Average Emission	1.441E+04	grams
	1.105E-03	grams/sec

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Phase 3 Construction

Estimation of Annual On-site Construction Emissions

Start of Construction	6/1/2026	
End of Construction	10/30/2026	**Total**
Number of Days	151	151
Number of Hours	3,624	3624

Year	**On-site Construction Activity**	**Unmitigated On-site DPM (tons)**
2026	On-site Site Preparation	0.00008
2026	On-site Grading	0.00020
2026	On-site Building Construction	0.01110
2026	On-site Paving	0.00051
2026	On-site Architectural Coating	0.00013

Total Unmitigated DPM (On-site)	1.202E-02	tons
Average Emission	1.091E+04	grams
	8.366E-04	grams/sec

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Phase 1 Construction

Estimation of Annual Offsite Construction DPM Emissions (No Mitigation)

	Start of Construction		3/1/2021		
	End of Construction		8/18/2021		**Total**
	Number of Days		170		170
	Number of Hours		4,080		4,080
		2021	2021	2021	
	Construction Trip Type	Site Preparation	Grading	Paving	
DPM	Haul Truck	0.00001	0.00019	0.00000	
DPM	Vendor Truck	0.00000	0.00000	0.00002	
DPM	Worker	0.00001	0.00001	0.00001	
DPM	Total	0.00002	0.00020	0.00003	

		Haul Truck (tons)	**Vendor Truck (tons)**	**Worker (tons)**	**Total (tons)**
Total DPM		2.000E-04	2.000E-05	3.000E-05	2.500E-04
Average Emissions	Grams	1.816E+02	1.816E+01	2.724E+01	
	Grams/sec	1.236E-05	1.236E-06	1.855E-06	
	Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8	

Vehicle Travel Distances in the Construction HRA (miles)				
Road Segment 1	0.46	0.46	0.46	miles
Road Segment 2	0.30	0.30	0.30	miles
Road Segment 3	0.48	0.48	0.48	miles
Road Segment 4	0.31	0.31	0.31	miles

Trip Distribution (percent)				
Road Segment 1	25%	25%	25%	
Road Segment 2	25%	25%	25%	
Road Segment 3	25%	25%	25%	
Road Segment 4	25%	25%	25%	

Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total**
Road Segment 1	7.154E-08	1.960E-08	1.987E-08	1.110E-07
Road Segment 2	4.706E-08	1.289E-08	1.307E-08	7.302E-08
Road Segment 3	7.420E-08	2.033E-08	2.061E-08	1.151E-07
Road Segment 4	4.782E-08	1.310E-08	1.328E-08	7.421E-08

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Phase 2 Construction

Estimation of Annual Offsite Construction DPM Emissions (No Mitigation)

	Start of Construction		6/1/2023			
	End of Construction		10/30/2023			**Total**
	Number of Days		151			151
	Number of Hours		3,624			3624
		2023	2023	2023	2023	2023
	Construction Trip Type	Site Preparation	Grading	Building Construction	Paving	Architectural Coating
DPM	Haul Truck	0.00000	0.00003	0.00000	0.00000	0.00000
DPM	Vendor Truck	0.00000	0.00000	0.00002	0.00000	0.00000
DPM	Worker	0.00000	0.00000	0.00007	0.00000	0.00000
DPM	Total	0.00000	0.00003	0.00009	0.00000	0.00000

		Haul Truck (tons)	**Vendor Truck (tons)**	**Worker (tons)**	**Total (tons)**
Total DPM		3.000E-05	2.000E-05	7.000E-05	1.200E-04
Average Emissions	Grams	2.724E+01	1.816E+01	6.356E+01	
	Grams/sec	2.088E-06	1.392E-06	4.872E-06	
	Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8	

Vehicle Travel Distances in the Construction HRA (miles)				
Road Segment 1	0.46	0.46	0.46	miles
Road Segment 2	0.30	0.30	0.30	miles
Road Segment 3	0.48	0.48	0.48	miles
Road Segment 4	0.31	0.31	0.31	miles
Trip Distribution (percent)				
Road Segment 1	25%	25%	25%	
Road Segment 2	25%	25%	25%	
Road Segment 3	25%	25%	25%	
Road Segment 4	25%	25%	25%	
Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total**
Road Segment 1	1.208E-08	2.207E-08	5.220E-08	8.635E-08
Road Segment 2	7.947E-09	1.451E-08	3.434E-08	5.680E-08
Road Segment 3	1.253E-08	2.289E-08	5.414E-08	8.956E-08
Road Segment 4	8.076E-09	1.475E-08	3.490E-08	5.773E-08

Mt. Diablo Resource Recovery Truck Maintenance Facility Project
Phase 2 Construction

Estimation of Annual Offsite Construction DPM Emissions (No Mitigation)

	Start of Construction		6/1/2026			
	End of Construction		10/30/2026			**Total**
	Number of Days		151			151
	Number of Hours		3,624			3,624
		2026	2026	2026	2026	2026
	Construction Trip Type	Site Preparation	Grading	Building Construction	Paving	Architectural Coating
DPM	Haul Truck	0.00000	0.00002	0.00000	0.00000	0.00000
DPM	Vendor Truck	0.00000	0.00000	0.00005	0.00000	0.00000
DPM	Worker	0.00000	0.00000	0.00006	0.00000	0.00000
DPM	Total	0.00000	0.00002	0.00011	0.00000	0.00000

		Haul Truck (tons)	**Vendor Truck (tons)**	**Worker (tons)**	**Total (tons)**
Total DPM		2.000E-05	5.000E-05	6.000E-05	1.300E-04
Average Emissions	Grams	1.816E+01	4.540E+01	5.448E+01	
	Grams/sec	1.392E-06	3.480E-06	4.176E-06	
	Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8	

Vehicle Travel Distances in the Construction HRA (miles)				
Road Segment 1	0.46	0.46	0.46	miles
Road Segment 2	0.30	0.30	0.30	miles
Road Segment 3	0.48	0.48	0.48	miles
Road Segment 4	0.31	0.31	0.31	miles
Trip Distribution (percent)				
Road Segment 1	25%	25%	25%	
Road Segment 2	25%	25%	25%	
Road Segment 3	25%	25%	25%	
Road Segment 4	25%	25%	25%	
Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total**
Road Segment 1	8.054E-09	5.517E-08	4.475E-08	1.080E-07
Road Segment 2	5.298E-09	3.629E-08	2.943E-08	7.101E-08
Road Segment 3	8.354E-09	5.722E-08	4.641E-08	1.120E-07
Road Segment 4	5.384E-09	3.688E-08	2.991E-08	7.217E-08

OEHHA Cancer/BAAQMD Risk Methodology

Cancer Risk = DPM x CPF x ASF x DBR x ED x EF x TAH x AF/ AT

Cancer Risk = probability of an individual contracting cancer out of a population of 1 million people over a lifetime exposure duration of 30 years

DPM = long-term average concentration of diesel PM as predicted by the air dispersion model (ug/m3)

CPF = cancer potency factor for DPM (mg.ke-day)

ASF = age sensitivity factors that are dependent on the age of the exposed individual (unitless)

DBR = daily breathing rates that are dependent on the age of the exposed individual (liters/kg-day)

ED = exposure duration (years)

EF = exposure frequency (days/year)

TAH = time at home factors that are dependent on the age of the exposed individual (%)

AT = averaging time over the lifetime of an individual (days)

AF = adjustment factor for workers and students (unitless)

Cancer Risk Equation Values as recommended by the California Office of Environmental Health Hazards Assessment

Cancer Risk Calculations Using OEHHA Cancer Risk Assumptions
Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant Starting in the 3rd Trimester

UTM:	607888.80	4207729.60	
Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$	
Exposure Frequency	350	days/year	
Averaging Period	25550	days	

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Year	Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
3rd Trimester	2021	0.0377826	10	361	1	0.25	0.5
0-<1	2021	0.0377826	10	1090	1	0.75	4.7
1-<2	2022	0.0000000	10	1090	1	1.00	0.0
2-<3	2023	0.0103037	3	745	1	1.00	0.3
3-<4	2024	0.0000000	3	745	1	1.00	0.0
4-<5	2025	0.0000000	3	745	1	1.00	0.0
5-<6	2026	0.0143033	3	745	1	1.00	0.5
						Total	5.9968

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child

UTM:	607888.8	4207729.6

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Phase	Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
Phase 1	2021	0.0377826	3	572	1	1.00	1.0
—	2022	0.0000000	3	572	1	1.00	0.0
Phase 2	2023	0.0103037	3	572	1	1.00	0.3
—	2024	0.0000000	3	572	1	1.00	0.0
—	2025	0.0000000	3	572	1	1.00	0.0
Phase 3	2026	0.0143033	3	572	1	1.00	0.4
						Total	1.6132

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

UTM:	607888.8	4207729.6

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Phase	Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
Phase 1	2021	0.0377826	1	261	0.73	1.00	0.1
—	2022	0.0000000	1	261	0.73	1.00	0.0
Phase 2	2023	0.0103037	1	261	0.73	1.00	0.0
—	2024	0.0000000	1	261	0.73	1.00	0.0
—	2025	0.0000000	1	261	0.73	1.00	0.0
Phase 3	2026	0.0143033	1	261	0.73	1.00	0.0
						Total	0.1791

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

UTM: 607888.8 4207729.6

Estimates of Chronic Non-Cancer Hazard Index (CNCHI)

Unmitigated

Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
607888.8	4207729.6	0.0580	0.0580	0.0116

Unmitigated

Annual PM2.5

X (m)	Y (m)	PM2.5 (ug/m3)	Max PM2.5 (ug/m3)
607888.8	4207729.6	0.0580	0.0580

Mt. Diablo Resource Recovery Truck Maintenance Facility Project
Phase 1
Construction Annual DPM Emissions (PM2.5 Exhaust)—Unmitigated Concentrations

Maximum
3.7783E-02

Annual Average Onsite Phase 1 Total DPM Emission Rate (grams/m2/sec): 3.53E-03
Annual Average Offsite Total DPM Emission Rate - Road Segment 1 (grams/sec): 1.11E-07
Annual Average Offsite Total DPM Emission Rate - Road Segment 2 (grams/sec): 7.30E-08
Annual Average Offsite Total DPM Emission Rate - Road Segment 3 (grams/sec): 1.15E-07
Annual Average Offsite Total DPM Emission Rate - Road Segment 4 (grams/sec): 7.42E-08

X	Y	Unit Emissions VALUES AVERAGED Phase 1	Unit Emissions VALUES AVERAGED ROAD 1	Unit Emissions VALUES AVERAGED ROAD 2	Unit Emissions VALUES AVERAGED ROAD 3	Unit Emissions VALUES AVERAGED ROAD 4	Onsite Phase 1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 2 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 3 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 4 Annual DPM Exhaust w/Actual Emissions (ug/m3)	**Total DPM (ug/m3)**
607888.80	4207729.60	10.69074	19.45459	2.42654	0.59156	2.89120	3.78E-02	2.16E-06	1.77E-07	6.81E-08	2.15E-07	3.7783E-02
607874.44	4207729.33	10.41962	24.56739	2.25170	0.54548	2.90859	3.68E-02	2.73E-06	1.64E-07	6.28E-08	2.16E-07	3.6825E-02
607889.08	4207714.60	8.71511	13.93153	2.21046	0.60524	2.56151	3.08E-02	1.55E-06	1.61E-07	6.97E-08	1.90E-07	3.0800E-02
607946.67	4207700.48	7.53259	3.41036	2.36855	0.87610	2.20934	2.66E-02	3.79E-07	1.73E-07	1.01E-07	1.64E-07	2.6620E-02
607932.13	4207700.31	7.53479	4.64158	2.29823	0.79793	2.23878	2.66E-02	5.15E-07	1.68E-07	9.19E-08	1.66E-07	2.6628E-02
607961.22	4207700.66	7.50970	2.57942	2.42667	0.96295	2.17298	2.65E-02	2.86E-07	1.77E-07	1.11E-07	1.61E-07	2.6539E-02
607917.58	4207700.14	7.48506	6.21642	2.21766	0.72953	2.25146	2.65E-02	6.90E-07	1.62E-07	8.40E-08	1.67E-07	2.6453E-02
607874.72	4207714.33	8.52072	17.39507	2.06919	0.55670	2.58966	3.01E-02	1.93E-06	1.51E-07	6.41E-08	1.92E-07	3.0114E-02
607975.77	4207700.83	7.46345	2.03802	2.47820	1.05962	2.13319	2.64E-02	2.26E-07	1.81E-07	1.22E-07	1.58E-07	2.6376E-02
607903.73	4207699.87	7.40838	8.19498	2.12710	0.67190	2.26748	2.62E-02	9.10E-07	1.55E-07	7.74E-08	1.68E-07	2.6182E-02
607990.32	4207701.01	7.41519	1.68686	2.52087	1.16522	2.08868	2.62E-02	1.87E-07	1.84E-07	1.34E-07	1.55E-07	2.6205E-02
607851.10	4207729.32	9.62470	29.21944	1.97010	0.48073	2.93183	3.40E-02	3.24E-06	1.44E-07	5.54E-08	2.18E-07	3.4016E-02
608004.87	4207701.18	7.36242	1.45255	2.55526	1.28070	2.03856	2.60E-02	1.61E-07	1.87E-07	1.47E-07	1.51E-07	2.6019E-02
607889.36	4207699.60	7.30785	10.56024	2.02218	0.61729	2.28955	2.58E-02	1.17E-06	1.48E-07	7.11E-08	1.70E-07	2.5827E-02
607946.85	4207685.49	6.43706	3.02097	2.15245	0.87781	1.97835	2.27E-02	3.35E-07	1.57E-07	1.01E-07	1.47E-07	2.2749E-02
607932.31	4207685.31	6.43935	4.01760	2.09152	0.80308	2.00635	2.28E-02	4.46E-07	1.53E-07	9.25E-08	1.49E-07	2.2757E-02
607875.00	4207699.33	7.15580	12.90546	1.90707	0.56752	2.31725	2.53E-02	1.43E-06	1.39E-07	6.53E-08	1.72E-07	2.5290E-02
607961.40	4207685.66	6.41146	2.30403	2.20274	0.96035	1.94272	2.27E-02	2.56E-07	1.61E-07	1.11E-07	1.44E-07	2.2658E-02
607917.76	4207685.14	6.40386	5.22420	2.02264	0.73688	2.02301	2.26E-02	5.80E-07	1.48E-07	8.48E-08	1.50E-07	2.2632E-02
607851.10	4207714.32	7.93032	20.98833	1.83393	0.48954	2.61536	2.80E-02	2.33E-06	1.34E-07	5.64E-08	1.94E-07	2.8028E-02
607975.95	4207685.83	6.36457	1.80997	2.24620	1.05146	1.90300	2.25E-02	2.01E-07	1.64E-07	1.21E-07	1.41E-07	2.2492E-02
607904.01	4207684.88	6.34383	6.65649	1.94696	0.68071	2.04061	2.24E-02	7.39E-07	1.42E-07	7.84E-08	1.51E-07	2.2420E-02
607990.50	4207686.01	6.31088	1.47692	2.28368	1.14980	1.85965	2.23E-02	1.64E-07	1.67E-07	1.32E-07	1.38E-07	2.2303E-02
607889.64	4207684.61	6.25318	8.31071	1.85971	0.62719	2.06001	2.21E-02	9.23E-07	1.36E-07	7.22E-08	1.53E-07	2.2099E-02
608005.05	4207686.18	6.25134	1.25074	2.31400	1.25598	1.81142	2.21E-02	1.39E-07	1.69E-07	1.45E-07	1.34E-07	2.2092E-02
607875.28	4207684.34	6.11860	9.92977	1.76550	0.57846	2.08056	2.16E-02	1.10E-06	1.29E-07	6.66E-08	1.54E-07	2.1624E-02
607932.49	4207670.31	5.58321	3.51234	1.91482	0.80476	1.80909	1.97E-02	3.90E-07	1.40E-07	9.27E-08	1.34E-07	1.9731E-02
607851.10	4207699.32	6.69945	15.62780	1.71354	0.49773	2.34737	2.37E-02	1.73E-06	1.25E-07	5.73E-08	1.74E-07	2.3677E-02
607947.03	4207670.49	5.57532	2.70180	1.96737	0.87605	1.78023	1.97E-02	3.00E-07	1.44E-07	1.01E-07	1.32E-07	1.9703E-02
607917.94	4207670.14	5.56739	4.48297	1.85466	0.74036	1.83143	1.97E-02	4.98E-07	1.35E-07	8.52E-08	1.36E-07	1.9675E-02
607961.58	4207670.66	5.54748	2.08755	2.01096	0.95383	1.74509	1.96E-02	2.32E-07	1.47E-07	1.10E-07	1.30E-07	1.9605E-02
607976.13	4207670.83	5.50409	1.64399	2.04950	1.03832	1.70699	1.95E-02	1.83E-07	1.50E-07	1.20E-07	1.27E-07	1.9451E-02
607904.29	4207669.88	5.51459	5.53487	1.79092	0.68638	1.84782	1.95E-02	6.14E-07	1.31E-07	7.90E-08	1.37E-07	1.9489E-02
607829.26	4207718.69	7.34889	22.72931	1.64856	0.43399	2.72264	2.60E-02	2.52E-06	1.20E-07	5.00E-08	2.02E-07	2.5973E-02
607990.68	4207671.01	5.44858	1.33233	2.08248	1.12933	1.66520	1.93E-02	1.48E-07	1.52E-07	1.30E-07	1.24E-07	1.9255E-02
607889.93	4207669.61	5.43286	6.72681	1.71747	0.63459	1.86431	1.92E-02	7.47E-07	1.25E-07	7.31E-08	1.38E-07	1.9200E-02
608005.22	4207671.18	5.38126	1.11490	2.10976	1.22701	1.61912	1.90E-02	1.24E-07	1.54E-07	1.41E-07	1.20E-07	1.9017E-02
607851.10	4207684.32	5.75250	11.98794	1.60235	0.50858	2.10492	2.03E-02	1.33E-06	1.17E-07	5.86E-08	1.56E-07	2.0330E-02
607875.56	4207669.34	5.31315	7.88381	1.63862	0.58751	1.87909	1.88E-02	8.75E-07	1.20E-07	6.76E-08	1.39E-07	1.8777E-02
607932.67	4207655.31	4.89490	3.09483	1.76211	0.80299	1.63887	1.73E-02	3.44E-07	1.29E-07	9.25E-08	1.22E-07	1.7299E-02
607947.21	4207655.49	4.88324	2.43114	1.80795	0.87025	1.60929	1.73E-02	2.70E-07	1.32E-07	1.00E-07	1.19E-07	1.7257E-02
607826.62	4207704.78	6.24673	17.58354	1.54279	0.43640	2.45450	2.21E-02	1.95E-06	1.13E-07	5.02E-08	1.82E-07	2.2078E-02
607961.76	4207655.66	4.85426	1.90684	1.84664	0.94301	1.57536	1.72E-02	2.12E-07	1.35E-07	1.09E-07	1.17E-07	1.7155E-02
607904.57	4207654.88	4.84011	4.65712	1.65575	0.68991	1.67653	1.71E-02	5.17E-07	1.21E-07	7.94E-08	1.24E-07	1.7105E-02
607976.31	4207655.84	4.81149	1.51220	1.88075	1.02135	1.53886	1.70E-02	1.68E-07	1.37E-07	1.18E-07	1.14E-07	1.7004E-02
607890.21	4207654.61	4.77246	5.55544	1.59275	0.63976	1.69332	1.69E-02	6.17E-07	1.16E-07	7.37E-08	1.26E-07	1.6866E-02
607990.86	4207656.01	4.75533	1.22408	1.90972	1.10518	1.49879	1.68E-02	1.36E-07	1.39E-07	1.27E-07	1.11E-07	1.6805E-02
607808.09	4207727.44	6.52894	22.13507	1.47155	0.38688	2.92349	2.31E-02	2.46E-06	1.07E-07	4.45E-08	2.17E-07	2.3075E-02
607851.10	4207669.32	5.01711	9.46826	1.49841	0.51741	1.90305	1.77E-02	1.05E-06	1.09E-07	5.96E-08	1.41E-07	1.7731E-02
608005.40	4207656.18	4.68781	1.01726	1.93386	1.19437	1.45514	1.66E-02	1.13E-07	1.41E-07	1.38E-07	1.08E-07	1.6567E-02
607813.39	4207710.25	5.94734	18.06063	1.45197	0.40618	2.56117	2.10E-02	2.00E-06	1.06E-07	4.68E-08	1.90E-07	2.1020E-02
607827.15	4207689.57	5.43460	13.71502	1.46179	0.44812	2.19685	1.92E-02	1.52E-06	1.07E-07	5.16E-08	1.63E-07	1.9207E-02
607875.85	4207654.34	4.67307	6.42233	1.52538	0.59391	1.70782	1.65E-02	7.13E-07	1.11E-07	6.84E-08	1.27E-07	1.6515E-02
607932.85	4207640.31	4.32929	2.74517	1.62932	0.79787	1.49021	1.53E-02	3.05E-07	1.19E-07	9.19E-08	1.11E-07	1.5300E-02
607947.39	4207640.49	4.31555	2.19782	1.66978	0.86079	1.46115	1.53E-02	2.44E-07	1.22E-07	9.91E-08	1.08E-07	1.5251E-02
607961.94	4207640.66	4.28514	1.75021	1.70397	0.92884	1.42842	1.51E-02	1.94E-07	1.24E-07	1.07E-07	1.06E-07	1.5144E-02
607862.34	4207654.32	4.55538	7.16069	1.46018	0.55439	1.72207	1.61E-02	7.95E-07	1.07E-07	6.38E-08	1.28E-07	1.6099E-02
607904.65	4207639.73	4.28340	3.98361	1.53514	0.68968	1.52735	1.51E-02	4.42E-07	1.12E-07	7.94E-08	1.13E-07	1.5138E-02
607976.49	4207640.84	4.24181	1.40099	1.73423	1.00142	1.39345	1.50E-02	1.56E-07	1.27E-07	1.15E-07	1.03E-07	1.4991E-02
607814.45	4207694.81	5.26054	14.43369	1.38987	0.41792	2.28899	1.86E-02	1.60E-06	1.01E-07	4.81E-08	1.70E-07	1.8592E-02
607890.49	4207639.61	4.23256	4.67107	1.48255	0.64228	1.54494	1.50E-02	5.19E-07	1.08E-07	7.40E-08	1.15E-07	1.4958E-02
607827.50	4207674.42	4.78628	10.91080	1.38172	0.45752	1.98563	1.69E-02	1.21E-06	1.01E-07	5.27E-08	1.47E-07	1.6916E-02
607991.04	4207641.01	4.18671	1.13734	1.75972	1.07829	1.35539	1.48E-02	1.26E-07	1.28E-07	1.24E-07	1.01E-07	1.4796E-02
607800.16	4207715.71	5.48328	17.44533	1.35217	0.37891	2.67252	1.94E-02	1.94E-06	9.87E-08	4.36E-08	1.98E-07	1.9380E-02
607876.13	4207639.34	4.15280	5.34339	1.42420	0.59765	1.56109	1.47E-02	5.93E-07	1.04E-07	6.88E-08	1.16E-07	1.4676E-02
608005.58	4207641.19	4.12196	0.94267	1.78090	1.15926	1.31439	1.46E-02	1.05E-07	1.30E-07	1.33E-07	9.75E-08	1.4567E-02
607839.85	4207654.32	4.28478	8.03869	1.34563	0.49579	1.74282	1.51E-02	8.92E-07	9.83E-08	5.71E-08	1.29E-07	1.5143E-02
607801.74	4207700.06	4.97905	14.50214	1.30977	0.39012	2.38610	1.76E-02	1.61E-06	9.56E-08	4.49E-08	1.77E-07	1.7597E-02
607933.02	4207625.32	3.85692	2.44993	1.51281	0.78974	1.35999	1.36E-02	2.72E-07	1.10E-07	9.09E-08	1.01E-07	1.3631E-02
607862.34	4207639.32	4.05430	5.92860	1.36677	0.55839	1.57554	1.43E-02	6.58E-07	9.98E-08	6.43E-08	1.17E-07	1.4328E-02
607947.57	4207625.49	3.84079	1.99442	1.54842	0.84878	1.33166	1.36E-02	2.21E-07	1.13E-07	9.77E-08	9.88E-08	1.3573E-02
607962.12	4207625.66	3.81005	1.61178	1.57894	0.91198	1.30043	1.35E-02	1.79E-07	1.15E-07	1.05E-07	9.65E-08	1.3465E-02
607904.83	4207624.73	3.82704	3.45610	1.42961	0.68687	1.39992	1.35E-02	3.84E-07	1.04E-07	7.91E-08	1.04E-07	1.3525E-02
607976.67	4207625.84	3.76794	1.30402	1.60553	0.97872	1.26713	1.33E-02	1.45E-07	1.17E-07	1.13E-07	9.40E-08	1.3316E-02
607890.77	4207624.62	3.78814	3.99804	1.38407	0.64162	1.41881	1.34E-02	4.44E-07	1.01E-07	7.39E-08	1.05E-07	1.3388E-02
607802.80	4207684.62	4.49996	11.97473	1.25984	0.40017	2.14823	1.59E-02	1.33E-06	9.20E-08	4.61E-08	1.59E-07	1.5904E-02
607991.22	4207626.01	3.71417	1.06435	1.62794	1.04914	1.23114	1.31E-02	1.18E-07	1.19E-07	1.21E-07	9.14E-08	1.3126E-02
607876.41	4207624.35	3.72397	4.52875	1.33320	0.59851	1.43616	1.32E-02	5.03E-07	9.73E-08	6.89E-08	1.07E-07	1.3161E-02
607839.85	4207639.32	3.83606	6.64459	1.26773	0.50086	1.59686	1.36E-02	7.38E-07	9.26E-08	5.77E-08	1.19E-07	1.3557E-02
608005.76	4207626.19	3.65083	0.88238	1.64662	1.12265	1.19263	1.29E-02	9.80E-08	1.20E-07	1.29E-07	8.85E-08	1.2902E-02
607789.04	4207705.30	4.59948	13.91974	1.22450	0.36542	2.48236	1.63E-02	1.55E-06	8.94E-08	4.21E-08	1.84E-07	1.6256E-02
607862.34	4207624.32	3.63944	4.99581	1.28249	0.56011	1.44922	1.29E-02	5.55E-07	9.36E-08	6.45E-08	1.08E-07	1.2862E-02
607933.20	4207610.32	3.45659	2.19768	1.40960	0.77927	1.24529	1.22E-02	2.44E-07	1.03E-07	8.97E-08	9.24E-08	1.2216E-02
607947.75	4207610.49	3.43940	1.81629	1.44131	0.83410	1.21821	1.22E-02	2.02E-07	1.05E-07	9.60E-08	9.04E-08	1.2155E-02
607962.30	4207610.66	3.40873	1.48827	1.46867	0.89262	1.18862	1.20E-02	1.65E-07	1.07E-07	1.03E-07	8.82E-08	1.2047E-02
607891.05	4207609.62	3.41167	3.46586	1.29561	0.63888	1.30824	1.21E-02	3.85E-07	9.46E-08	7.36E-08	9.71E-08	1.2057E-02

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Phase 2

Construction Annual DPM Emissions (PM2.5 Exhaust)—Unmitigated Concentrations

Maximum
1.0304E-02

Annual Average Onsite Phase 2 Total DPM Emission Rate (grams/m2/sec): 1.10E-03
Annual Average Offsite Total DPM Emission Rate - Road Segment 1 (grams/sec): 8.64E-08
Annual Average Offsite Total DPM Emission Rate - Road Segment 2 (grams/sec): 5.68E-08
Annual Average Offsite Total DPM Emission Rate - Road Segment 3 (grams/sec): 8.96E-08
Annual Average Offsite Total DPM Emission Rate - Road Segment 4 (grams/sec): 5.77E-08

		Unit Emissions VALUES AVERAGED	Unit Emissions VALUES AVERAGED	Unit Emissions VALUES AVERAGED	Unit Emissions VALUES AVERAGED	Unit Emissions VALUES AVERAGED	Onsite Phase 2 Annual DPM Exhaust w/Actual Emissions	Offsite-Road Segment 1 Annual DPM Exhaust w/Actual Emissions	Offsite-Road Segment 2 Annual DPM Exhaust w/Actual Emissions	Offsite-Road Segment 3 Annual DPM Exhaust w/Actual Emissions	Offsite-Road Segment 4 Annual DPM Exhaust w/Actual Emissions	**Total DPM**
X	Y	Phase 2	ROAD 1	ROAD 2	ROAD 3	ROAD 4	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	**(ug/m3)**
607888.80	4207729.60	5.32266	19.45459	2.42654	0.59156	2.89120	5.88E-03	1.68E-06	1.38E-07	5.30E-08	1.67E-07	5.8810E-03
607874.44	4207729.33	4.32100	24.56739	2.25170	0.54548	2.90859	4.77E-03	2.12E-06	1.28E-07	4.89E-08	1.68E-07	4.7751E-03
607889.08	4207714.60	4.84461	13.93153	2.21046	0.60524	2.56151	5.35E-03	1.20E-06	1.26E-07	5.42E-08	1.48E-07	5.3525E-03
607946.67	4207700.48	6.90298	3.41036	2.36855	0.87610	2.20934	7.62E-03	2.94E-07	1.35E-07	7.85E-08	1.28E-07	7.6251E-03
607932.13	4207700.31	6.29632	4.64158	2.29823	0.79793	2.23878	6.95E-03	4.01E-07	1.31E-07	7.15E-08	1.29E-07	6.9551E-03
607961.22	4207700.66	7.51047	2.57942	2.42667	0.96295	2.17298	8.30E-03	2.23E-07	1.38E-07	8.62E-08	1.25E-07	8.2960E-03
607917.58	4207700.14	5.66201	6.21642	2.21766	0.72953	2.25146	6.25E-03	5.37E-07	1.26E-07	6.53E-08	1.30E-07	6.2546E-03
607874.72	4207714.33	4.10663	17.39507	2.06919	0.55670	2.58966	4.54E-03	1.50E-06	1.18E-07	4.99E-08	1.49E-07	4.5377E-03
607975.77	4207700.83	8.11873	2.03802	2.47820	1.05962	2.13319	8.97E-03	1.76E-07	1.41E-07	9.49E-08	1.23E-07	8.9678E-03
607903.73	4207699.87	5.06210	8.19498	2.12710	0.67190	2.26748	5.59E-03	7.08E-07	1.21E-07	6.02E-08	1.31E-07	5.5922E-03
607990.32	4207701.01	8.73452	1.68686	2.52087	1.16522	2.08868	9.65E-03	1.46E-07	1.43E-07	1.04E-07	1.21E-07	9.6479E-03
607851.10	4207729.32	3.08295	29.21944	1.97010	0.48073	2.93183	3.41E-03	2.52E-06	1.12E-07	4.31E-08	1.69E-07	3.4080E-03
608004.87	4207701.18	9.32828	1.45255	2.55526	1.28070	2.03856	1.03E-02	1.25E-07	1.45E-07	1.15E-07	1.18E-07	1.0304E-02
607889.36	4207699.60	4.45110	10.56024	2.02218	0.61729	2.28955	4.92E-03	9.12E-07	1.15E-07	5.53E-08	1.32E-07	4.9175E-03
607946.85	4207685.49	6.12532	3.02097	2.15245	0.87781	1.97835	6.77E-03	2.61E-07	1.22E-07	7.86E-08	1.14E-07	6.7661E-03
607932.31	4207685.31	5.62073	4.01760	2.09152	0.80308	2.00635	6.21E-03	3.47E-07	1.19E-07	7.19E-08	1.16E-07	6.2088E-03
607875.00	4207699.33	3.87202	12.90546	1.90707	0.56752	2.31725	4.28E-03	1.11E-06	1.08E-07	5.08E-08	1.34E-07	4.2781E-03
607961.40	4207685.66	6.62175	2.30403	2.20274	0.96035	1.94272	7.31E-03	1.99E-07	1.25E-07	8.60E-08	1.12E-07	7.3144E-03
607917.76	4207685.14	5.10149	5.22420	2.02264	0.73688	2.02301	5.63E-03	4.51E-07	1.15E-07	6.60E-08	1.17E-07	5.6354E-03
607851.10	4207714.32	3.07912	20.98833	1.83393	0.48954	2.61536	3.40E-03	1.81E-06	1.04E-07	4.38E-08	1.51E-07	3.4030E-03
607975.95	4207685.83	7.10037	1.80997	2.24620	1.05146	1.90300	7.84E-03	1.56E-07	1.28E-07	9.42E-08	1.10E-07	7.8430E-03
607904.01	4207684.88	4.61553	6.65649	1.94696	0.68071	2.04061	5.10E-03	5.75E-07	1.11E-07	6.10E-08	1.18E-07	5.0988E-03
607990.50	4207686.01	7.56420	1.47692	2.28368	1.14980	1.85965	8.35E-03	1.28E-07	1.30E-07	1.03E-07	1.07E-07	8.3552E-03
607889.64	4207684.61	4.11801	8.31071	1.85971	0.62719	2.06001	4.55E-03	7.18E-07	1.06E-07	5.62E-08	1.19E-07	4.5494E-03
608005.05	4207686.18	7.99633	1.25074	2.31400	1.25598	1.81142	8.83E-03	1.08E-07	1.31E-07	1.12E-07	1.05E-07	8.8325E-03
607875.28	4207684.34	3.64249	9.92977	1.76550	0.57846	2.08056	4.02E-03	8.57E-07	1.00E-07	5.18E-08	1.20E-07	4.0243E-03
607932.49	4207670.31	5.06869	3.51234	1.91482	0.80476	1.80909	5.60E-03	3.03E-07	1.09E-07	7.21E-08	1.04E-07	5.5990E-03
607851.10	4207699.32	3.01453	15.62780	1.71354	0.49773	2.34737	3.33E-03	1.35E-06	9.73E-08	4.46E-08	1.36E-07	3.3312E-03
607947.03	4207670.49	5.48215	2.70180	1.96737	0.87605	1.78023	6.06E-03	2.33E-07	1.12E-07	7.85E-08	1.03E-07	6.0556E-03
607917.94	4207670.14	4.64383	4.48297	1.85466	0.74036	1.83143	5.13E-03	3.87E-07	1.05E-07	6.63E-08	1.06E-07	5.1298E-03
607961.58	4207670.66	5.88169	2.08755	2.01096	0.95383	1.74509	6.50E-03	1.80E-07	1.14E-07	8.54E-08	1.01E-07	6.4969E-03
607976.13	4207670.83	6.26133	1.64399	2.04950	1.03832	1.70699	6.92E-03	1.42E-07	1.16E-07	9.30E-08	9.85E-08	6.9162E-03
607904.29	4207669.88	4.24253	5.53487	1.79092	0.68638	1.84782	4.69E-03	4.78E-07	1.02E-07	6.15E-08	1.07E-07	4.6867E-03
607829.26	4207718.69	2.37486	22.72931	1.64856	0.43399	2.72264	2.62E-03	1.96E-06	9.36E-08	3.89E-08	1.57E-07	2.6253E-03
607990.68	4207671.01	6.61463	1.33233	2.08248	1.12933	1.66520	7.31E-03	1.15E-07	1.18E-07	1.01E-07	9.61E-08	7.3064E-03
607889.93	4207669.61	3.82796	6.72681	1.71747	0.63459	1.86431	4.23E-03	5.81E-07	9.75E-08	5.68E-08	1.08E-07	4.2289E-03
608005.22	4207671.18	6.92825	1.11490	2.10976	1.22701	1.61912	7.65E-03	9.63E-08	1.20E-07	1.10E-07	9.35E-08	7.6528E-03
607851.10	4207684.32	2.91305	11.98794	1.60235	0.50858	2.10492	3.22E-03	1.04E-06	9.10E-08	4.55E-08	1.22E-07	3.2188E-03
607875.56	4207669.34	3.42741	7.88381	1.63862	0.58751	1.87909	3.79E-03	6.81E-07	9.31E-08	5.26E-08	1.08E-07	3.7866E-03
607932.67	4207655.31	4.59755	3.09483	1.76211	0.80299	1.63887	5.08E-03	2.67E-07	1.00E-07	7.19E-08	9.46E-08	5.0786E-03
607947.21	4207655.49	4.93526	2.43114	1.80795	0.87025	1.60929	5.45E-03	2.10E-07	1.03E-07	7.79E-08	9.29E-08	5.4516E-03
607826.62	4207704.78	2.32097	17.58354	1.54279	0.43640	2.45450	2.56E-03	1.52E-06	8.76E-08	3.91E-08	1.42E-07	2.5653E-03
607961.76	4207655.66	5.25668	1.90684	1.84664	0.94301	1.57536	5.81E-03	1.65E-07	1.05E-07	8.45E-08	9.09E-08	5.8065E-03
607904.57	4207654.88	3.91252	4.65712	1.65575	0.68991	1.67653	4.32E-03	4.02E-07	9.40E-08	6.18E-08	9.68E-08	4.3221E-03
607976.31	4207655.84	5.55679	1.51220	1.88075	1.02135	1.53886	6.14E-03	1.31E-07	1.07E-07	9.15E-08	8.88E-08	6.1380E-03
607890.21	4207654.61	3.56555	5.55544	1.59275	0.63976	1.69332	3.94E-03	4.80E-07	9.05E-08	5.73E-08	9.77E-08	3.9389E-03
607990.86	4207656.01	5.82731	1.22408	1.90972	1.10518	1.49879	6.44E-03	1.06E-07	1.08E-07	9.90E-08	8.65E-08	6.4368E-03
607808.09	4207727.44	1.85116	22.13507	1.47155	0.38688	2.92349	2.04E-03	1.91E-06	8.36E-08	3.46E-08	1.69E-07	2.0468E-03
607851.10	4207669.32	2.80236	9.46826	1.49841	0.51741	1.90305	3.10E-03	8.18E-07	8.51E-08	4.63E-08	1.10E-07	3.0963E-03
608005.40	4207656.18	6.06042	1.01726	1.93386	1.19437	1.45514	6.69E-03	8.78E-08	1.10E-07	1.07E-07	8.40E-08	6.6942E-03
607813.39	4207710.25	2.01069	18.06063	1.45197	0.40618	2.56117	2.22E-03	1.56E-06	8.25E-08	3.64E-08	1.48E-07	2.2227E-03
607827.15	4207689.57	2.32354	13.71502	1.46179	0.44812	2.19685	2.57E-03	1.18E-06	8.30E-08	4.01E-08	1.27E-07	2.5678E-03
607875.85	4207654.34	3.22776	6.42233	1.52538	0.59391	1.70782	3.57E-03	5.55E-07	8.66E-08	5.32E-08	9.86E-08	3.5659E-03
607932.85	4207640.31	4.18599	2.74517	1.62932	0.79787	1.49021	4.62E-03	2.37E-07	9.25E-08	7.15E-08	8.60E-08	4.6240E-03
607947.39	4207640.49	4.46197	2.19782	1.66978	0.86079	1.46115	4.93E-03	1.90E-07	9.48E-08	7.71E-08	8.43E-08	4.9288E-03
607961.94	4207640.66	4.72033	1.75021	1.70397	0.92884	1.42842	5.21E-03	1.51E-07	9.68E-08	8.32E-08	8.25E-08	5.2141E-03
607862.34	4207654.32	2.92618	7.16069	1.46018	0.55439	1.72207	3.23E-03	6.18E-07	8.29E-08	4.97E-08	9.94E-08	3.2329E-03
607904.65	4207639.73	3.61224	3.98361	1.53514	0.68968	1.52735	3.99E-03	3.44E-07	8.72E-08	6.18E-08	8.82E-08	3.9904E-03
607976.49	4207640.84	4.95668	1.40099	1.73423	1.00142	1.39345	5.47E-03	1.21E-07	9.85E-08	8.97E-08	8.04E-08	5.4751E-03
607814.45	4207694.81	2.05547	14.43369	1.38987	0.41792	2.28899	2.27E-03	1.25E-06	7.89E-08	3.74E-08	1.32E-07	2.2718E-03
607890.49	4207639.61	3.32662	4.67107	1.48255	0.64228	1.54494	3.67E-03	4.03E-07	8.42E-08	5.75E-08	8.92E-08	3.6749E-03
607827.50	4207674.42	2.30112	10.91080	1.38172	0.45752	1.98563	2.54E-03	9.42E-07	7.85E-08	4.10E-08	1.15E-07	2.5428E-03
607991.04	4207641.01	5.16525	1.13734	1.75972	1.07829	1.35539	5.71E-03	9.82E-08	9.99E-08	9.66E-08	7.82E-08	5.7055E-03
607800.16	4207715.71	1.74407	17.44533	1.35217	0.37891	2.67252	1.93E-03	1.51E-06	7.68E-08	3.39E-08	1.54E-07	1.9281E-03
607876.13	4207639.34	3.04148	5.34339	1.42420	0.59765	1.56109	3.36E-03	4.61E-07	8.09E-08	5.35E-08	9.01E-08	3.3600E-03
608005.58	4207641.19	5.34123	0.94267	1.78090	1.15926	1.31439	5.90E-03	8.14E-08	1.01E-07	1.04E-07	7.59E-08	5.8998E-03
607839.85	4207654.32	2.46369	8.03869	1.34563	0.49579	1.74282	2.72E-03	6.94E-07	7.64E-08	4.44E-08	1.01E-07	2.7221E-03
607801.74	4207700.06	1.81488	14.50214	1.30977	0.39012	2.38610	2.00E-03	1.25E-06	7.44E-08	3.49E-08	1.38E-07	2.0061E-03
607933.02	4207625.32	3.82244	2.44993	1.51281	0.78974	1.35999	4.22E-03	2.12E-07	8.59E-08	7.07E-08	7.85E-08	4.2224E-03
607862.34	4207639.32	2.77803	5.92860	1.36677	0.55839	1.57554	3.07E-03	5.12E-07	7.76E-08	5.00E-08	9.09E-08	3.0691E-03
607947.57	4207625.49	4.04763	1.99442	1.54842	0.84878	1.33166	4.47E-03	1.72E-07	8.79E-08	7.60E-08	7.69E-08	4.4711E-03
607962.12	4207625.66	4.25532	1.61178	1.57894	0.91198	1.30043	4.70E-03	1.39E-07	8.97E-08	8.17E-08	7.51E-08	4.7005E-03
607904.83	4207624.73	3.34752	3.45610	1.42961	0.68687	1.39992	3.70E-03	2.98E-07	8.12E-08	6.15E-08	8.08E-08	3.6979E-03
607976.67	4207625.84	4.44264	1.30402	1.60553	0.97872	1.26713	4.91E-03	1.13E-07	9.12E-08	8.77E-08	7.31E-08	4.9073E-03
607890.77	4207624.62	3.11009	3.99804	1.38407	0.64162	1.41881	3.44E-03	3.45E-07	7.86E-08	5.75E-08	8.19E-08	3.4357E-03
607802.80	4207684.62	1.85519	11.97473	1.25984	0.40017	2.14823	2.05E-03	1.03E-06	7.16E-08	3.58E-08	1.24E-07	2.0504E-03
607991.22	4207626.01	4.60364	1.06435	1.62794	1.04914	1.23114	5.08E-03	9.19E-08	9.25E-08	9.40E-08	7.11E-08	5.0851E-03
607876.41	4207624.35	2.86852	4.52875	1.33320	0.59851	1.43616	3.17E-03	3.91E-07	7.57E-08	5.36E-08	8.29E-08	3.1689E-03
607839.85	4207639.32	2.37677	6.64459	1.26773	0.50086	1.59686	2.63E-03	5.74E-07	7.20E-08	4.49E-08	9.22E-08	2.6260E-03
608005.76	4207626.19	4.73507	0.88238	1.64662	1.12265	1.19263	5.23E-03	7.62E-08	9.35E-08	1.01E-07	6.88E-08	5.2303E-03
607789.04	4207705.30	1.60123	13.91974	1.22450	0.36542	2.48236	1.77E-03	1.20E-06	6.95E-08	3.27E-08	1.43E-07	1.7700E-03
607862.34	4207624.32	2.63632	4.99581	1.28249	0.56011	1.44922	2.91E-03	4.31E-07	7.28E-08	5.02E-08	8.37E-08	2.9125E-03
607933.20	4207610.32	3.49841	2.19768	1.40960	0.77927	1.24529	3.86E-03	1.90E-07	8.01E-08	6.98E-08	7.19E-08	3.8645E-03
607947.75	4207610.49	3.68200	1.81629	1.44131	0.83410	1.21821	4.07E-03	1.57E-07	8.19E-08	7.47E-08	7.03E-08	4.0672E-03
607962.30	4207610.66	3.84952	1.48827	1.46867	0.89262	1.18862	4.25E-03	1.29E-07	8.34E-08	7.99E-08	6.86E-08	4.2522E-03
607891.05	4207609.62	2.90895	3.46586	1.29561	0.63888	1.30824	3.21E-03	2.99E-07	7.36E-08	5.72E-08	7.55E-08	3.2135E-03

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Phase 3

Construction Annual DPM Emissions (PM2.5 Exhaust)—Unmitigated Concentrations

Maximum
1.4303E-02

Annual Average Onsite Phase 3 Total DPM Emission Rate (grams/m2/sec): 8.37E-04
Annual Average Offsite Total DPM Emission Rate - Road Segment 1 (grams/sec): 1.08E-07
Annual Average Offsite Total DPM Emission Rate - Road Segment 2 (grams/sec): 7.10E-08
Annual Average Offsite Total DPM Emission Rate - Road Segment 3 (grams/sec): 1.12E-07
Annual Average Offsite Total DPM Emission Rate - Road Segment 4 (grams/sec): 7.22E-08

X	Y	Unit Emissions VALUES AVERAGED Phase 3	Unit Emissions VALUES AVERAGED ROAD 1	Unit Emissions VALUES AVERAGED ROAD 2	Unit Emissions VALUES AVERAGED ROAD 3	Unit Emissions VALUES AVERAGED ROAD 4	Onsite Phase 3 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 2 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 3 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite-Road Segment 4 Annual DPM Exhaust w/Actual Emissions (ug/m3)	**Total DPM (ug/m3)**
607888.80	4207729.60	17.09459	19.45459	2.42654	0.59156	2.89120	1.43E-02	2.10E-06	1.72E-07	6.62E-08	2.09E-07	1.4303E-02
607874.44	4207729.33	14.96223	24.56739	2.25170	0.54548	2.90859	1.25E-02	2.65E-06	1.60E-07	6.11E-08	2.10E-07	1.2520E-02
607889.08	4207714.60	14.06805	13.93153	2.21046	0.60524	2.56151	1.18E-02	1.50E-06	1.57E-07	6.78E-08	1.85E-07	1.1771E-02
607946.67	4207700.48	11.90901	3.41036	2.36855	0.87610	2.20934	9.96E-03	3.68E-07	1.68E-07	9.81E-08	1.59E-07	9.9635E-03
607932.13	4207700.31	12.42989	4.64158	2.29823	0.79793	2.23878	1.04E-02	5.01E-07	1.63E-07	8.94E-08	1.62E-07	1.0399E-02
607961.22	4207700.66	10.99474	2.57942	2.42667	0.96295	2.17298	9.20E-03	2.78E-07	1.72E-07	1.08E-07	1.57E-07	9.1985E-03
607917.58	4207700.14	12.53922	6.21642	2.21766	0.72953	2.25146	1.05E-02	6.71E-07	1.57E-07	8.17E-08	1.62E-07	1.0491E-02
607874.72	4207714.33	12.73092	17.39507	2.06919	0.55670	2.58966	1.07E-02	1.88E-06	1.47E-07	6.23E-08	1.87E-07	1.0653E-02
607975.77	4207700.83	9.76946	2.03802	2.47820	1.05962	2.13319	8.17E-03	2.20E-07	1.76E-07	1.19E-07	1.54E-07	8.1735E-03
607903.73	4207699.87	12.27491	8.19498	2.12710	0.67190	2.26748	1.03E-02	8.85E-07	1.51E-07	7.52E-08	1.64E-07	1.0270E-02
607990.32	4207701.01	8.36818	1.68686	2.52087	1.16522	2.08868	7.00E-03	1.82E-07	1.79E-07	1.30E-07	1.51E-07	7.0012E-03
607851.10	4207729.32	11.52742	29.21944	1.97010	0.48073	2.93183	9.64E-03	3.15E-06	1.40E-07	5.38E-08	2.12E-07	9.6470E-03
608004.87	4207701.18	6.91333	1.45255	2.55526	1.28070	2.03856	5.78E-03	1.57E-07	1.81E-07	1.43E-07	1.47E-07	5.7841E-03
607889.36	4207699.60	11.68031	10.56024	2.02218	0.61729	2.28955	9.77E-03	1.14E-06	1.44E-07	6.91E-08	1.65E-07	9.7729E-03
607946.85	4207685.49	9.53656	3.02097	2.15245	0.87781	1.97835	7.98E-03	3.26E-07	1.53E-07	9.83E-08	1.43E-07	7.9787E-03
607932.31	4207685.31	10.01497	4.01760	2.09152	0.80308	2.00635	8.38E-03	4.34E-07	1.49E-07	8.99E-08	1.45E-07	8.3790E-03
607875.00	4207699.33	10.83656	12.90546	1.90707	0.56752	2.31725	9.07E-03	1.39E-06	1.35E-07	6.36E-08	1.67E-07	9.0672E-03
607961.40	4207685.66	8.80137	2.30403	2.20274	0.96035	1.94272	7.36E-03	2.49E-07	1.56E-07	1.08E-07	1.40E-07	7.3636E-03
607917.76	4207685.14	10.20281	5.22420	2.02264	0.73688	2.02301	8.54E-03	5.64E-07	1.44E-07	8.25E-08	1.46E-07	8.5362E-03
607851.10	4207714.32	10.31922	20.98833	1.83393	0.48954	2.61536	8.63E-03	2.27E-06	1.30E-07	5.48E-08	1.89E-07	8.6353E-03
607975.95	4207685.83	7.84605	1.80997	2.24620	1.05146	1.90300	6.56E-03	1.95E-07	1.60E-07	1.18E-07	1.37E-07	6.5643E-03
607904.01	4207684.88	10.11595	6.65649	1.94696	0.68071	2.04061	8.46E-03	7.19E-07	1.38E-07	7.62E-08	1.47E-07	8.4637E-03
607990.50	4207686.01	6.77034	1.47692	2.28368	1.14980	1.85965	5.66E-03	1.59E-07	1.62E-07	1.29E-07	1.34E-07	5.6644E-03
607889.64	4207684.61	9.78121	8.31071	1.85971	0.62719	2.06001	8.18E-03	8.97E-07	1.32E-07	7.02E-08	1.49E-07	8.1839E-03
608005.05	4207686.18	5.66572	1.25074	2.31400	1.25598	1.81142	4.74E-03	1.35E-07	1.64E-07	1.41E-07	1.31E-07	4.7403E-03
607875.28	4207684.34	9.24546	9.92977	1.76550	0.57846	2.08056	7.73E-03	1.07E-06	1.25E-07	6.48E-08	1.50E-07	7.7358E-03
607932.49	4207670.31	8.21086	3.51234	1.91482	0.80476	1.80909	6.87E-03	3.79E-07	1.36E-07	9.01E-08	1.31E-07	6.8697E-03
607851.10	4207699.32	9.14846	15.62780	1.71354	0.49773	2.34737	7.65E-03	1.69E-06	1.22E-07	5.57E-08	1.69E-07	7.6553E-03
607947.03	4207670.49	7.79509	2.70180	1.96737	0.87605	1.78023	6.52E-03	2.92E-07	1.40E-07	9.81E-08	1.28E-07	6.5218E-03
607917.94	4207670.14	8.43026	4.48297	1.85466	0.74036	1.83143	7.05E-03	4.84E-07	1.32E-07	8.29E-08	1.32E-07	7.0533E-03
607961.58	4207670.66	7.18853	2.08755	2.01096	0.95383	1.74509	6.01E-03	2.25E-07	1.43E-07	1.07E-07	1.26E-07	6.0143E-03
607976.13	4207670.83	6.43510	1.64399	2.04950	1.03832	1.70699	5.38E-03	1.77E-07	1.46E-07	1.16E-07	1.23E-07	5.3839E-03
607904.29	4207669.88	8.43634	5.53487	1.79092	0.68638	1.84782	7.06E-03	5.98E-07	1.27E-07	7.69E-08	1.33E-07	7.0585E-03
607829.26	4207718.69	8.39695	22.72931	1.64856	0.43399	2.72264	7.02E-03	2.45E-06	1.17E-07	4.86E-08	1.97E-07	7.0274E-03
607990.68	4207671.01	5.59758	1.33233	2.08248	1.12933	1.66520	4.68E-03	1.44E-07	1.48E-07	1.26E-07	1.20E-07	4.6833E-03
607889.93	4207669.61	8.25909	6.72681	1.71747	0.63459	1.86431	6.91E-03	7.26E-07	1.22E-07	7.11E-08	1.35E-07	6.9103E-03
608005.22	4207671.18	4.73835	1.11490	2.10976	1.22701	1.61912	3.96E-03	1.20E-07	1.50E-07	1.37E-07	1.17E-07	3.9645E-03
607851.10	4207684.32	8.06456	11.98794	1.60235	0.50858	2.10492	6.75E-03	1.29E-06	1.14E-07	5.70E-08	1.52E-07	6.7481E-03
607875.56	4207669.34	7.91937	7.88381	1.63862	0.58751	1.87909	6.63E-03	8.51E-07	1.16E-07	6.58E-08	1.36E-07	6.6262E-03
607932.67	4207655.31	6.83316	3.09483	1.76211	0.80299	1.63887	5.72E-03	3.34E-07	1.25E-07	8.99E-08	1.18E-07	5.7170E-03
607947.21	4207655.49	6.47320	2.43114	1.80795	0.87025	1.60929	5.42E-03	2.62E-07	1.28E-07	9.75E-08	1.16E-07	5.4159E-03
607826.62	4207704.78	7.58958	17.58354	1.54279	0.43640	2.45450	6.35E-03	1.90E-06	1.10E-07	4.89E-08	1.77E-07	6.3514E-03
607961.76	4207655.66	5.97202	1.90684	1.84664	0.94301	1.57536	5.00E-03	2.06E-07	1.31E-07	1.06E-07	1.14E-07	4.9965E-03
607904.57	4207654.88	7.10366	4.65712	1.65575	0.68991	1.67653	5.94E-03	5.03E-07	1.18E-07	7.73E-08	1.21E-07	5.9435E-03
607976.31	4207655.84	5.37073	1.51220	1.88075	1.02135	1.53886	4.49E-03	1.63E-07	1.34E-07	1.14E-07	1.11E-07	4.4935E-03
607890.21	4207654.61	7.02651	5.55544	1.59275	0.63976	1.69332	5.88E-03	6.00E-07	1.13E-07	7.16E-08	1.22E-07	5.8790E-03
607990.86	4207656.01	4.70844	1.22408	1.90972	1.10518	1.49879	3.94E-03	1.32E-07	1.36E-07	1.24E-07	1.08E-07	3.9394E-03
607808.09	4207727.44	6.73454	22.13507	1.47155	0.38688	2.92349	5.63E-03	2.39E-06	1.05E-07	4.33E-08	2.11E-07	5.6366E-03
607851.10	4207669.32	7.09940	9.46826	1.49841	0.51741	1.90305	5.94E-03	1.02E-06	1.06E-07	5.79E-08	1.37E-07	5.9404E-03
608005.40	4207656.18	4.03048	1.01726	1.93386	1.19437	1.45514	3.37E-03	1.10E-07	1.37E-07	1.34E-07	1.05E-07	3.3722E-03
607813.39	4207710.25	6.78440	18.06063	1.45197	0.40618	2.56117	5.68E-03	1.95E-06	1.03E-07	4.55E-08	1.85E-07	5.6779E-03
607827.15	4207689.57	6.97436	13.71502	1.46179	0.44812	2.19685	5.83E-03	1.48E-06	1.04E-07	5.02E-08	1.59E-07	5.8363E-03
607875.85	4207654.34	6.82041	6.42233	1.52538	0.59391	1.70782	5.71E-03	6.93E-07	1.08E-07	6.65E-08	1.23E-07	5.7067E-03
607932.85	4207640.31	5.76000	2.74517	1.62932	0.79787	1.49021	4.82E-03	2.96E-07	1.16E-07	8.93E-08	1.08E-07	4.8192E-03
607947.39	4207640.49	5.44733	2.19782	1.66978	0.86079	1.46115	4.56E-03	2.37E-07	1.19E-07	9.64E-08	1.05E-07	4.5576E-03
607961.94	4207640.66	5.03432	1.75021	1.70397	0.92884	1.42842	4.21E-03	1.89E-07	1.21E-07	1.04E-07	1.03E-07	4.2121E-03
607862.34	4207654.32	6.54392	7.16069	1.46018	0.55439	1.72207	5.47E-03	7.73E-07	1.04E-07	6.21E-08	1.24E-07	5.4755E-03
607904.65	4207639.73	6.03324	3.98361	1.53514	0.68968	1.52735	5.05E-03	4.30E-07	1.09E-07	7.72E-08	1.10E-07	5.0479E-03
607976.49	4207640.84	4.54782	1.40099	1.73423	1.00142	1.39345	3.80E-03	1.51E-07	1.23E-07	1.12E-07	1.01E-07	3.8050E-03
607814.45	4207694.81	6.41027	14.43369	1.38987	0.41792	2.28899	5.36E-03	1.56E-06	9.87E-08	4.68E-08	1.65E-07	5.3645E-03
607890.49	4207639.61	6.02485	4.67107	1.48255	0.64228	1.54494	5.04E-03	5.04E-07	1.05E-07	7.19E-08	1.12E-07	5.0410E-03
607827.50	4207674.42	6.35018	10.91080	1.38172	0.45752	1.98563	5.31E-03	1.18E-06	9.81E-08	5.12E-08	1.43E-07	5.3138E-03
607991.04	4207641.01	4.01758	1.13734	1.75972	1.07829	1.35539	3.36E-03	1.23E-07	1.25E-07	1.21E-07	9.78E-08	3.3614E-03
607800.16	4207715.71	5.96465	17.44533	1.35217	0.37891	2.67252	4.99E-03	1.88E-06	9.60E-08	4.24E-08	1.93E-07	4.9920E-03
607876.13	4207639.34	5.90924	5.34339	1.42420	0.59765	1.56109	4.94E-03	5.77E-07	1.01E-07	6.69E-08	1.13E-07	4.9443E-03
608005.58	4207641.19	3.47561	0.94267	1.78090	1.15926	1.31439	2.91E-03	1.02E-07	1.26E-07	1.30E-07	9.49E-08	2.9080E-03
607839.85	4207654.32	5.93262	8.03869	1.34563	0.49579	1.74282	4.96E-03	8.68E-07	9.56E-08	5.55E-08	1.26E-07	4.9642E-03
607801.74	4207700.06	5.79715	14.50214	1.30977	0.39012	2.38610	4.85E-03	1.57E-06	9.30E-08	4.37E-08	1.72E-07	4.8516E-03
607933.02	4207625.32	4.91042	2.44993	1.51281	0.78974	1.35999	4.11E-03	2.65E-07	1.07E-07	8.84E-08	9.82E-08	4.1084E-03
607862.34	4207639.32	5.72594	5.92860	1.36677	0.55839	1.57554	4.79E-03	6.40E-07	9.71E-08	6.25E-08	1.14E-07	4.7910E-03
607947.57	4207625.49	4.64144	1.99442	1.54842	0.84878	1.33166	3.88E-03	2.15E-07	1.10E-07	9.50E-08	9.61E-08	3.8834E-03
607962.12	4207625.66	4.29763	1.61178	1.57894	0.91198	1.30043	3.60E-03	1.74E-07	1.12E-07	1.02E-07	9.39E-08	3.5957E-03
607904.83	4207624.73	5.18245	3.45610	1.42961	0.68687	1.39992	4.34E-03	3.73E-07	1.02E-07	7.69E-08	1.01E-07	4.3361E-03
607976.67	4207625.84	3.90093	1.30402	1.60553	0.97872	1.26713	3.26E-03	1.41E-07	1.14E-07	1.10E-07	9.15E-08	3.2638E-03
607890.77	4207624.62	5.21044	3.99804	1.38407	0.64162	1.41881	4.36E-03	4.32E-07	9.83E-08	7.18E-08	1.02E-07	4.3596E-03
607802.80	4207684.62	5.51503	11.97473	1.25984	0.40017	2.14823	4.61E-03	1.29E-06	8.95E-08	4.48E-08	1.55E-07	4.6153E-03
607991.22	4207626.01	3.47063	1.06435	1.62794	1.04914	1.23114	2.90E-03	1.15E-07	1.16E-07	1.17E-07	8.89E-08	2.9038E-03
607876.41	4207624.35	5.15390	4.52875	1.33320	0.59851	1.43616	4.31E-03	4.89E-07	9.47E-08	6.70E-08	1.04E-07	4.3123E-03
607839.85	4207639.32	5.29332	6.64459	1.26773	0.50086	1.59686	4.43E-03	7.17E-07	9.00E-08	5.61E-08	1.15E-07	4.4292E-03
608005.76	4207626.19	3.03016	0.88238	1.64662	1.12265	1.19263	2.53E-03	9.53E-08	1.17E-07	1.26E-07	8.61E-08	2.5353E-03
607789.04	4207705.30	5.16991	13.91974	1.22450	0.36542	2.48236	4.32E-03	1.50E-06	8.70E-08	4.09E-08	1.79E-07	4.3268E-03
607862.34	4207624.32	5.03401	4.99581	1.28249	0.56011	1.44922	4.21E-03	5.39E-07	9.11E-08	6.27E-08	1.05E-07	4.2121E-03
607933.20	4207610.32	4.22799	2.19768	1.40960	0.77927	1.24529	3.54E-03	2.37E-07	1.00E-07	8.73E-08	8.99E-08	3.5375E-03
607947.75	4207610.49	3.99408	1.81629	1.44131	0.83410	1.21821	3.34E-03	1.96E-07	1.02E-07	9.34E-08	8.79E-08	3.3418E-03
607962.30	4207610.66	3.70900	1.48827	1.46867	0.89262	1.18862	3.10E-03	1.61E-07	1.04E-07	1.00E-07	8.58E-08	3.1033E-03
607891.05	4207609.62	4.53828	3.46586	1.29561	0.63888	1.30824	3.80E-03	3.74E-07	9.20E-08	7.15E-08	9.44E-08	3.7972E-03

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

All Phases of Construction - Concentrations
Unmitigated

		X	Y		Maximum DPM (ug/m3)
	UTM	607888.80	4207729.60		5.7967E-02

X	Y	Phase 1 DPM (ug/m3)	Phase 2 DPM (ug/m3)	Phase 3 DPM (ug/m3)	Total DPM (ug/m3)
607888.80	4207729.60	3.7783E-02	5.8810E-03	1.4303E-02	5.7967E-02
607874.44	4207729.33	3.6825E-02	4.7751E-03	1.2520E-02	5.4120E-02
607889.08	4207714.60	3.0800E-02	5.3525E-03	1.1771E-02	4.7923E-02
607946.67	4207700.48	2.6620E-02	7.6251E-03	9.9635E-03	4.4209E-02
607932.13	4207700.31	2.6628E-02	6.9551E-03	1.0399E-02	4.3983E-02
607961.22	4207700.66	2.6539E-02	8.2960E-03	9.1985E-03	4.4034E-02
607917.58	4207700.14	2.6453E-02	6.2546E-03	1.0491E-02	4.3198E-02
607874.72	4207714.33	3.0114E-02	4.5377E-03	1.0653E-02	4.5304E-02
607975.77	4207700.83	2.6376E-02	8.9678E-03	8.1735E-03	4.3517E-02
607903.73	4207699.87	2.6182E-02	5.5922E-03	1.0270E-02	4.2044E-02
607990.32	4207701.01	2.6205E-02	9.6479E-03	7.0012E-03	4.2854E-02
607851.10	4207729.32	3.4016E-02	3.4080E-03	9.6470E-03	4.7071E-02
608004.87	4207701.18	2.6019E-02	1.0304E-02	5.7841E-03	4.2106E-02
607889.36	4207699.60	2.5827E-02	4.9175E-03	9.7729E-03	4.0517E-02
607946.85	4207685.49	2.2749E-02	6.7661E-03	7.9787E-03	3.7493E-02
607932.31	4207685.31	2.2757E-02	6.2088E-03	8.3790E-03	3.7345E-02
607875.00	4207699.33	2.5290E-02	4.2781E-03	9.0672E-03	3.8635E-02
607961.40	4207685.66	2.2658E-02	7.3144E-03	7.3636E-03	3.7336E-02
607917.76	4207685.14	2.2632E-02	5.6354E-03	8.5362E-03	3.6803E-02
607851.10	4207714.32	2.8028E-02	3.4030E-03	8.6353E-03	4.0066E-02
607975.95	4207685.83	2.2492E-02	7.8430E-03	6.5643E-03	3.6900E-02
607904.01	4207684.88	2.2420E-02	5.0988E-03	8.4637E-03	3.5982E-02
607990.50	4207686.01	2.2303E-02	8.3552E-03	5.6644E-03	3.6322E-02
607889.64	4207684.61	2.2099E-02	4.5494E-03	8.1839E-03	3.4833E-02
608005.05	4207686.18	2.2092E-02	8.8325E-03	4.7403E-03	3.5665E-02
607875.28	4207684.34	2.1624E-02	4.0243E-03	7.7358E-03	3.3384E-02
607932.49	4207670.31	1.9731E-02	5.5990E-03	6.8697E-03	3.2200E-02
607851.10	4207699.32	2.3677E-02	3.3312E-03	7.6553E-03	3.4664E-02
607947.03	4207670.49	1.9703E-02	6.0556E-03	6.5218E-03	3.2281E-02
607917.94	4207670.14	1.9675E-02	5.1298E-03	7.0533E-03	3.1859E-02
607961.58	4207670.66	1.9605E-02	6.4969E-03	6.0143E-03	3.2116E-02
607976.13	4207670.83	1.9451E-02	6.9162E-03	5.3839E-03	3.1752E-02
607904.29	4207669.88	1.9489E-02	4.6867E-03	7.0585E-03	3.1234E-02
607829.26	4207718.69	2.5973E-02	2.6253E-03	7.0274E-03	3.5626E-02
607990.68	4207671.01	1.9255E-02	7.3064E-03	4.6833E-03	3.1245E-02
607889.93	4207669.61	1.9200E-02	4.2289E-03	6.9103E-03	3.0339E-02
608005.22	4207671.18	1.9017E-02	7.6528E-03	3.9645E-03	3.0635E-02
607851.10	4207684.32	2.0330E-02	3.2188E-03	6.7481E-03	3.0297E-02
607875.56	4207669.34	1.8777E-02	3.7866E-03	6.6262E-03	2.9190E-02
607932.67	4207655.31	1.7299E-02	5.0786E-03	5.7170E-03	2.8094E-02
607947.21	4207655.49	1.7257E-02	5.4516E-03	5.4159E-03	2.8125E-02
607826.62	4207704.78	2.2078E-02	2.5653E-03	6.3514E-03	3.0994E-02
607961.76	4207655.66	1.7155E-02	5.8065E-03	4.9965E-03	2.7958E-02
607904.57	4207654.88	1.7105E-02	4.3221E-03	5.9435E-03	2.7371E-02
607976.31	4207655.84	1.7004E-02	6.1380E-03	4.4935E-03	2.7635E-02
607890.21	4207654.61	1.6866E-02	3.9389E-03	5.8790E-03	2.6684E-02
607990.86	4207656.01	1.6805E-02	6.4368E-03	3.9394E-03	2.7182E-02
607808.09	4207727.44	2.3075E-02	2.0468E-03	5.6366E-03	3.0759E-02
607851.10	4207669.32	1.7731E-02	3.0963E-03	5.9404E-03	2.6768E-02
608005.40	4207656.18	1.6567E-02	6.6942E-03	3.3722E-03	2.6633E-02
607813.39	4207710.25	2.1020E-02	2.2227E-03	5.6779E-03	2.8920E-02
607827.15	4207689.57	1.9207E-02	2.5678E-03	5.8363E-03	2.7611E-02
607875.85	4207654.34	1.6515E-02	3.5659E-03	5.7067E-03	2.5788E-02
607932.85	4207640.31	1.5300E-02	4.6240E-03	4.8192E-03	2.4743E-02
607947.39	4207640.49	1.5251E-02	4.9288E-03	4.5576E-03	2.4738E-02
607961.94	4207640.66	1.5144E-02	5.2141E-03	4.2121E-03	2.4570E-02
607862.34	4207654.32	1.6099E-02	3.2329E-03	5.4755E-03	2.4808E-02
607904.65	4207639.73	1.5138E-02	3.9904E-03	5.0479E-03	2.4176E-02
607976.49	4207640.84	1.4991E-02	5.4751E-03	3.8050E-03	2.4271E-02
607814.45	4207694.81	1.8592E-02	2.2718E-03	5.3645E-03	2.6228E-02
607890.49	4207639.61	1.4958E-02	3.6749E-03	5.0410E-03	2.3674E-02
607827.50	4207674.42	1.6916E-02	2.5428E-03	5.3138E-03	2.4772E-02
607991.04	4207641.01	1.4796E-02	5.7055E-03	3.3614E-03	2.3863E-02
607800.16	4207715.71	1.9380E-02	1.9281E-03	4.9920E-03	2.6300E-02
607876.13	4207639.34	1.4676E-02	3.3600E-03	4.9443E-03	2.2981E-02
608005.58	4207641.19	1.4567E-02	5.8998E-03	2.9080E-03	2.3375E-02
607839.85	4207654.32	1.5143E-02	2.7221E-03	4.9642E-03	2.2829E-02

Mt. Diablo Resource Recovery Truck Maintenance Facility Project
Top 10 Concentrations
AERMOD (19191)
AERMET (14134)
December 2020
MODELING OPTIONS USED: Reg DFAULT CONC ELEV URBAN
PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS
FOR A TOTAL OF 593 RECEPTORS.

X	Y	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	NUM YRS	NET ID
607888.80	4207729.60	10.69074	5.32266	17.09459	19.45459	2.42654	0.59156	2.89120	2.21522	10.49	10.49	0	ANNUAL	5	
607874.44	4207729.33	10.41962	4.32100	14.96223	24.56739	2.25170	0.54548	2.90859	2.46552	10.03	10.03	0	ANNUAL	5	
607889.08	4207714.60	8.71511	4.84461	14.06805	13.93153	2.21046	0.60524	2.56151	1.88645	10.81	10.81	0	ANNUAL	5	
607946.67	4207700.48	7.53259	6.90298	11.90901	3.41036	2.36855	0.87610	2.20934	1.09304	9.85	9.85	0	ANNUAL	5	
607932.13	4207700.31	7.53479	6.29632	12.42989	4.64158	2.29823	0.79793	2.23878	1.21804	10.27	10.27	0	ANNUAL	5	
607961.22	4207700.66	7.50970	7.51047	10.99474	2.57942	2.42667	0.96295	2.17298	0.97804	9.49	9.49	0	ANNUAL	5	
607917.58	4207700.14	7.48506	5.66201	12.53922	6.21642	2.21766	0.72953	2.25146	1.33440	10.88	10.88	0	ANNUAL	5	
607874.72	4207714.33	8.52072	4.10663	12.73092	17.39507	2.06919	0.55670	2.58966	2.11091	10.32	10.32	0	ANNUAL	5	
607975.77	4207700.83	7.46345	8.11873	9.76946	2.03802	2.47820	1.05962	2.13319	0.87788	8.97	8.97	0	ANNUAL	5	
607903.73	4207699.87	7.40838	5.06210	12.27491	8.19498	2.12710	0.67190	2.26748	1.47158	11.07	11.07	0	ANNUAL	5	
607990.32	4207701.01	7.41519	8.73452	8.36818	1.68686	2.52087	1.16522	2.08868	0.79201	8.74	8.74	0	ANNUAL	5	
607851.10	4207729.32	9.62470	3.08295	11.52742	29.21944	1.97010	0.48073	2.93183	2.85576	9.58	9.58	0	ANNUAL	5	

CONCUNIT ug/m^3
DEPUNIT g/m^2

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Total DPM and Cancer Risk

Mt. Diablo Resource Recovery Truck Maintenance Facility Project Total DPM

MEI UTM: (607888.8, 4207729.6)

X	Y	Construction Phase 1 Total DPM (ug/m3)	Phase 2 Total DPM (ug/m3)	Phase 3 Total DPM (ug/m3)	Operations 2021 Total DPM (ug/m3)	Operations 2025 Total DPM (ug/m3)	Operations 2030 Total DPM (ug/m3)	Operations 2040 Total DPM (ug/m3)	Operations 2050 Total DPM (ug/m3)
607888.8	4207729.6	3.7783E-02	5.8810E-03	1.4303E-02	3.5047E-04	2.1550E-04	1.4770E-04	1.0602E-04	9.4301E-05

Cancer Risk at MIR

6.86

Threshold of Significance

10

Exceeds threshold?

No

Estimates of Chronic Non-Cancer Hazard Index (CNCHI)
Unmitigated
Chronic Non-Cancer Hazard Index at the MIR
MEI UTM: (607888.8, 4207729.6)
Reference Exposure Level (REL) for DPM: 5 ug/m3
CNCHI = DPM/REL

X (m)	Y (m)	Maximum Annual Average DPM (ug/m3)	CNCHI
607888.8	4207729.6	0.04	0.007557

Chronic Non-Cancer Hazard Index

0.007557

Threshold of Significance

1

Exceeds threshold?

No

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

30-year Lifetime Cancer Risk

MEI UTM: (607888.8, 4207729.6)

	Construction	Construction	Operations	Operations	Construction	Operations	Operations	Operations	Construction	Operations	Operations	Operations	Operations	Operations	Operations
	2021	**2021**	**2021**	**2022**	**2023**	**2023**	**2024**	**2025**	**2026**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**
Age	**3rd Trimester**	**0-<1**	**0-<1**	**0-<1**	**1-<2**	**1-<2**	**2-<3**	**3-<4**	**4-<5**	**4-<5**	**5-<6**	**6-<7**	**7-<8**	**8-<9**	**9-<10**
DBR (liters/kg-day)	361	1090	1090	1090	1090	1090	745	745	745	745	745	745	745	745	745
ASF	10	10	10	10	10	10	3	3	3	3	3	3	3	3	3
TAH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Duration (years)	0.25	0.75	1.00	1	1	1	1	1	1	1	1	1	1	1	1
Frequency (days)	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Averaging time (days)	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550
CPF (milligrans/kg-day)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Unit Risk Factor $(ug/m^3)^{-1}$	13.60	123.18	164.25	164.25	164.25	164.25	33.68	33.68	33.68	33.68	33.68	33.68	33.68	33.68	33.68

Maximum DPM Concentration (ug/m3)

		2021													
X	Y	**3rd Trimester**	**2021**	**2021**	**2022**	**2023**	**2023**	**2024**	**2025**	**2026**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**
607888.8	4207729.6	3.7783E-02	3.7783E-02	3.5047E-04	3.5047E-04	5.8810E-03	3.0548E-04	2.6049E-04	2.1550E-04	1.4303E-02	2.0194E-04	1.8838E-04	1.7482E-04	1.6126E-04	1.4770E-04	1.4353E-04

MEI UTM: (607888.8, 4207729.6)

Annual Risk (risk/million)

		2021													
X	Y	**3rd Trimester**	**2021**	**2021**	**2022**	**2023**	**2023**	**2024**	**2025**	**2026**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**
607888.80	4207729.60	0.5138	4.6542	0.0576	0.0576	0.9659	0.0502	0.0088	0.0073	0.4817	0.0068	0.0063	0.0059	0.0054	0.0050	0.0048

Operations 2032 10-<11	Operations 2033 11-<12	Operations 2034 12-<13	Operations 2035 13-<14	Operations 2036 14-<15	Operations 2037 15-<16	Operations 2038 16-<17	Operations 2039 17-<18	Operations 2040 18-<19	Operations 2041 19-<20	Operations 2042 20-<21	Operations 2043 21-<22	Operations 2044 22-<23	Operations 2045 23-<24	Operations 2046 24-<25	Operations 2047 25-<26	Operations 2048 26-<27	Operations 2049 27-<28	Operations 2050 28-<29	Operations 2051 29-<30	Operations 2052 30-<31
745	745	745	745	745	745	261	261	261	261	261	261	261	261	261	261	261	261	261	261	233
3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550	25550
1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
33.68	33.68	33.68	33.68	33.68	33.68	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.56

2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	Total
1.3936E-04	1.3519E-04	1.3102E-04	1.2686E-04	1.2269E-04	1.1852E-04	1.1435E-04	1.1018E-04	1.0602E-04	1.0485E-04	1.0367E-04	1.0250E-04	1.0133E-04	1.0016E-04	9.8987E-05	9.7816E-05	9.6644E-05	9.5473E-05	9.4301E-05	9.4301E-05	9.4301E-05	1.0054E-01

2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	Total
0.0047	0.0046	0.0044	0.0043	0.0041	0.0040	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	6.8617

2021 Operations

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Diesel Vehicle Emissions

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE7	**LHDT1**	10	0.066	0.1	403.2	0.25	2.270E-03	5.00E-06	2.627E-08	
	LHDT2	10	0.044	0.1	403.2	0.25	5.918E-04	1.30E-06	6.850E-09	
	MHDT	10	0.016	0.2	403.2	0.25	8.992E-04	1.98E-06	1.041E-08	
	HHDT	10	0.031	42.7	403.2	0.25	3.297E-01	7.26E-04	3.816E-06	**3.86E-06**
SLINE8	**LHDT1**	10	0.066	0.1	551.2	0.34	3.10E-03	6.84E-06	3.59E-08	
	LHDT2	10	0.044	0.1	551.2	0.34	8.09E-04	1.78E-06	9.36E-09	
	MHDT	10	0.016	0.2	551.2	0.34	1.23E-03	2.71E-06	1.42E-08	
	HHDT	10	0.031	42.7	551.2	0.34	4.51E-01	9.93E-04	5.22E-06	**5.28E-06**
SLINE13	**LHDT1**	10	0.066	0.1	210.9	0.13	1.19E-03	2.62E-06	1.37E-08	
	LHDT2	10	0.044	0.1	210.9	0.13	3.10E-04	6.82E-07	3.58E-09	
	MHDT	10	0.016	0.2	210.9	0.13	4.70E-04	1.04E-06	5.44E-09	
	HHDT	10	0.031	42.7	210.9	0.13	1.72E-01	3.80E-04	2.00E-06	**2.02E-06**
SLINE5	**LDA**	15	0.026	1	565.0	0.35	1.01E-02	2.23E-05	1.17E-07	
	LDT1	15	0.190	0	565.0	0.35	3.00E-04	6.61E-07	3.47E-09	
	LDT2	15	0.009	0	565.0	0.35	2.00E-04	4.40E-07	2.31E-09	
	MDV	15	0.010	0	565.0	0.35	1.42E-03	3.13E-06	1.65E-08	**1.39E-07**
SLINE6	**LDA**	15	0.026	1	192.0	0.12	3.442E-03	7.58E-06	3.984E-08	
	LDT1	15	0.190	0	192.0	0.12	1.019E-04	2.25E-07	1.180E-09	
	LDT2	15	0.009	0	192.0	0.12	6.793E-05	1.50E-07	7.862E-10	
	MDV	15	0.010	0	192.0	0.12	4.834E-04	1.06E-06	5.595E-09	**4.74E-08**

Diesel Vehicle Emissions

Diesel truck Idling Emissions Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor (grams/trip)	Emissions Idling Time (min)	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE9	**LHDT1**	0.001	15	0.1	9.05E-05	2.01E-06	1.05E-09	
	LHDT2	0.001	15	0.0	4.63E-05	1.02E-07	5.36E-10	
	MHDT	0.000	15	0.2	1.80E-05	3.97E-08	2.09E-10	
	HHDT	0.006	15	32.0	1.87E-01	4.11E-04	2.16E-06	**2.16E-06**
SLINE10	**LHDT1**	0.001	15	0.1	9.05E-05	1.99E-07	1.05E-09	
	LHDT2	0.001	15	0.0	4.63E-05	1.02E-07	5.36E-10	
	MHDT	0.000	15	0.2	1.80E-05	3.97E-08	2.09E-10	
	HHDT	0.006	15	32.0	1.87E-01	4.11E-04	2.16E-06	**2.16E-06**
SLINE11	**LHDT1**	0.001	15	0.1	9.05E-05	1.99E-07	1.05E-09	
	LHDT2	0.001	15	0.0	4.63E-05	1.02E-07	5.36E-10	
	MHDT	0.000	15	0.2	1.80E-05	3.97E-08	2.09E-10	
	HHDT	0.006	15	32.0	1.87E-01	4.11E-04	2.16E-06	**2.16E-06**
SLINE12	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	3.60E-05	7.94E-08	4.17E-10	
	MHDT	0.001	15	0.2	1.97E-04	4.34E-07	2.28E-09	
	HHDT	0.000	15	32.0	3.33E-03	7.34E-06	3.86E-08	**4.13E-08**
VOL1	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	3.60E-05	7.94E-08	4.17E-10	
	MHDT	0.001	15	0.2	1.97E-04	4.34E-07	2.28E-09	
	HHDT	0.000	15	32.0	3.33E-03	7.34E-06	3.86E-08	**4.13E-08**
VOL2	**LHDT1**	0.000	15	0.2	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.1	7.21E-05	1.59E-07	8.34E-10	
	MHDT	0.001	15	0.3	3.94E-04	8.68E-07	4.56E-09	
	HHDT	0.000	15	64.1	6.66E-03	1.47E-05	7.71E-08	**8.25E-08**

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Project Operations 24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Segment ID: SLINE1
Travel Distance: 744.8 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.002	0.46	0.00	1.31E-09
LHDT2-DSL	0	0.002	0.46	0.00	3.98E-10
MHDT-DSL	0	0.002	0.46	0.00	1.40E-09
HHDT-DSL	32	0.001	0.46	0.02	2.18E-07
Total	32				**2.21E-07**

Segment ID: SLINE2
Travel Distance: 489.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.002	0.30	0.00	8.64E-10
LHDT2-DSL	0	0.002	0.30	0.00	2.62E-10
MHDT-DSL	0	0.002	0.30	0.00	9.24E-10
HHDT-DSL	32	0.001	0.30	0.01	1.43E-07
Total	32				**1.45E-07**

Segment ID: SLINE3
Travel Distance: 772.5 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.48	0.03	3.20E-07
LHDT2-DSL	0	0.002	0.48	0.00	4.13E-10
MHDT-DSL	0	0.002	0.48	0.00	1.46E-09
HHDT-DSL	32	0.001	0.48	0.02	2.26E-07
Total	32				**5.48E-07**

Segment ID: SLINE4
Travel Distance: 497.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.48	0.03	3.20E-07
LHDT2-DSL	0	0.002	0.48	0.00	4.13E-10
MHDT-DSL	0	0.002	0.48	0.00	1.46E-09
HHDT-DSL	32	0.001	0.48	0.02	2.26E-07
Total	32				**5.48E-07**

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	2.2	0.0	0.1	0.8
SLINE1	0.6	0.0	0.0	0.2
SLINE2	0.6	0.0	0.0	0.2
SLINE3	0.6	0.0	0.0	0.2
SLINE4	0.6	0.0	0.0	0.2

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	744.8	0.46	0.002	4.02E-04	24	4.65E-09
LDT1-DSL	744.8	0.46	0.002	2.13E-06	24	2.47E-11
LDT2-DSL	744.8	0.46	0.001	2.03E-05	24	2.35E-10
MDT-DSL	744.8	0.46	0.001	7.97E-05	24	9.22E-10
Total						**5.84E-09**

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	489.9	0.30	0.002	2.65E-04	24	3.06E-09
LDT1-DSL	489.9	0.30	0.002	1.40E-06	24	1.62E-11
LDT2-DSL	489.9	0.30	0.001	1.33E-05	24	1.54E-10
MDT-DSL	489.9	0.30	0.001	5.24E-05	24	6.06E-10
Total						**3.84E-09**

Offsite Segment ID SLINE3 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	772.5	0.48	0.002	4.17E-04	24	4.83E-09
LDT1-DSL	772.5	0.48	0.002	2.21E-06	24	2.56E-11
LDT2-DSL	772.5	0.48	0.001	2.10E-05	24	2.43E-10
MDT-DSL	772.5	0.48	0.001	8.26E-05	24	9.56E-10
Total						**6.05E-09**

Offsite Segment ID SLINE4 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	497.9	0.31	0.002	2.69E-04	24	3.11E-09
LDT1-DSL	497.9	0.31	0.002	1.43E-06	24	1.65E-11
LDT2-DSL	497.9	0.31	0.001	1.36E-05	24	1.57E-10
MDT-DSL	497.9	0.31	0.001	5.32E-05	24	6.16E-10
Total						**3.90E-09**

DPM 2021

EMFAC Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	**15 mph**	**25 mph**	**35 mph**
LDA	GAS	0.0070	0.0046	0.0024	0.0016
LDT1	GAS	0.0088	0.0059	0.0032	0.0021
LDT2	GAS	0.0066	0.0044	0.0023	0.0015
MDV	GAS	0.0068	0.0046	0.0024	0.0016
LHDT1	GAS	0.0052	0.0035	0.0018	0.0012
LHDT2	GAS	0.0039	0.0026	0.0014	0.0009
MHDT	GAS	0.0044	0.0029	0.0015	0.0010
HHDT	GAS	0.0037	0.0024	0.0013	0.0008
LDA	DSL	0.0341	0.0258	0.0164	0.0122
LDT1	DSL	0.2606	0.1904	0.1162	0.0849
LDT2	DSL	0.0116	0.0095	0.0065	0.0051
MDV	DSL	0.0128	0.0103	0.0070	0.0054
LHDT1	DSL	0.0665	0.0499	0.0315	0.0235
LHDT2	DSL	0.0435	0.0337	0.0221	0.0167
MHDT	DSL	0.0155	0.0125	0.0092	0.0078
HHDT	DSL	0.0308	0.0265	0.0206	0.0176

Idling Emissions (Emission Factors from CalEEMod)
in units of grams/trip

Vehicle Class	**Fuel**	**Vehicle Speed (mph)**	**DPM (grams/trip)**
LHDT1	DSL	Idle	0.000885
LHDT2	DSL	Idle	0.001137
MHDT	DSL	Idle	0.000104
HHDT	DSL	Idle	0.005825

Unmitigated 2021
Diesel Truck Emissions

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec): 2.21E-07 SLINE1
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec): 1.45E-07 SLINE2
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec): 5.48E-07 SLINE3
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec): 5.48E-07 SLINE4
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec): 1.39E-07 SLINE5
Annual Average Offsite Total DPM Emission Rate - Segment 6 (grams/sec): 4.74E-08 SLINE6

		Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	SLINE1 SLINE1 Annual DPM Exhaust w/Actual Emissions	SLINE2 SLINE2 Annual DPM Exhaust w/Actual Emissions	SLINE3 SLINE3 Annual DPM Exhaust w/Actual Emissions	SLINE4 SLINE4 Annual DPM Exhaust w/Actual Emissions	SLINE5 SLINE5 Annual DPM Exhaust w/Actual Emissions	SLINE6 SLINE6 Annual DPM Exhaust w/Actual Emissions	Total DPM
X	Y	ROAD1	ROAD2	ROAD3	ROAD4	ONSITE1	ONSITE2	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
607888.80	4207729.60	4.77846	1.54370	6.77673	6.37082	5.22654	41.85340	1.06E-06	2.25E-07	3.71E-06	3.71E-06	7.29E-07	1.98E-06	1.142E-05
607874.44	4207729.33	4.44244	1.45264	6.79753	6.80108	4.66957	37.83727	9.82E-07	2.11E-07	3.72E-06	3.72E-06	6.51E-07	1.79E-06	1.108E-05
607889.08	4207714.60	4.40429	1.54589	6.12572	5.64624	5.22803	32.39324	9.74E-07	2.25E-07	3.35E-06	3.35E-06	7.29E-07	1.54E-06	1.017E-05
607946.67	4207700.48	4.94111	2.02532	5.45673	3.90096	8.83891	21.40332	1.09E-06	2.95E-07	2.99E-06	2.99E-06	1.23E-06	1.01E-06	9.611E-06
607932.13	4207700.31	4.75180	1.88636	5.50015	4.18476	7.65263	23.85348	1.05E-06	2.74E-07	3.01E-06	3.01E-06	1.07E-06	1.13E-06	9.547E-06
607961.22	4207700.66	5.10571	2.17739	5.40220	3.63170	10.25521	18.72214	1.13E-06	3.17E-07	2.96E-06	2.96E-06	1.43E-06	8.87E-07	9.680E-06
607917.58	4207700.14	4.53628	1.75866	5.52494	4.46585	6.65952	25.50015	1.00E-06	2.56E-07	3.03E-06	3.03E-06	9.29E-07	1.21E-06	9.448E-06
607874.72	4207714.33	4.12554	1.45489	6.15635	6.02216	4.67304	30.24497	9.12E-07	2.12E-07	3.37E-06	3.37E-06	6.52E-07	1.43E-06	9.952E-06
607975.77	4207700.83	5.25236	2.34482	5.33471	3.38096	11.93077	16.22530	1.16E-06	3.41E-07	2.92E-06	2.92E-06	1.66E-06	7.69E-07	9.778E-06
607903.73	4207699.87	4.31529	1.64947	5.54824	4.75122	5.88394	26.10157	9.54E-07	2.40E-07	3.04E-06	3.04E-06	8.21E-07	1.24E-06	9.329E-06
607990.32	4207701.01	5.38244	2.52591	5.26027	3.15783	13.84984	14.10603	1.19E-06	3.67E-07	2.88E-06	2.88E-06	1.93E-06	6.69E-07	9.919E-06
607851.10	4207729.32	3.91678	1.32183	6.82446	7.45630	3.94395	30.33897	8.66E-07	1.92E-07	3.74E-06	3.74E-06	5.50E-07	1.44E-06	1.052E-05
608004.87	4207701.18	5.49839	2.72240	5.18008	2.95948	15.99543	12.33337	1.22E-06	3.96E-07	2.84E-06	2.84E-06	2.23E-06	5.85E-07	1.010E-05
607889.36	4207699.60	4.08103	1.54824	5.57588	5.06159	5.21993	25.75736	9.03E-07	2.25E-07	3.05E-06	3.05E-06	7.28E-07	1.22E-06	9.183E-06
607946.85	4207685.49	4.54158	2.00805	4.98004	3.58592	8.49520	17.57745	1.00E-06	2.92E-07	2.73E-06	2.73E-06	1.19E-06	8.33E-07	8.769E-06
607932.31	4207685.31	4.37660	1.87598	5.02291	3.82906	7.44751	19.32858	9.68E-07	2.73E-07	2.75E-06	2.75E-06	1.04E-06	9.16E-07	8.697E-06
607875.00	4207699.33	3.84575	1.45743	5.60668	5.38084	4.67110	24.60186	8.50E-07	2.12E-07	3.07E-06	3.07E-06	6.52E-07	1.17E-06	9.021E-06
607961.40	4207685.66	4.68645	2.15208	4.92670	3.35377	9.70571	15.63356	1.04E-06	3.13E-07	2.70E-06	2.70E-06	1.35E-06	7.41E-07	8.840E-06
607917.76	4207685.14	4.19081	1.75401	5.05232	4.07283	6.54658	20.54094	9.27E-07	2.55E-07	2.77E-06	2.77E-06	9.13E-07	9.74E-07	8.602E-06
607851.10	4207714.32	3.67687	1.32124	6.19075	6.59473	3.93767	25.67254	8.13E-07	1.92E-07	3.39E-06	3.39E-06	5.49E-07	1.22E-06	9.551E-06
607975.95	4207685.83	4.81561	2.30989	4.86138	3.13451	11.08677	13.77043	1.06E-06	3.36E-07	2.66E-06	2.66E-06	1.55E-06	6.53E-07	8.924E-06
607904.01	4207684.88	4.00247	1.64901	5.07804	4.31618	5.82721	21.06214	8.85E-07	2.40E-07	2.78E-06	2.78E-06	8.13E-07	9.98E-07	8.498E-06
607990.50	4207686.01	4.93060	2.47941	4.78777	2.93678	12.60466	12.14792	1.09E-06	3.61E-07	2.62E-06	2.62E-06	1.76E-06	5.76E-07	9.029E-06
607889.64	4207684.61	3.80025	1.54903	5.10366	4.57769	5.19071	20.96759	8.40E-07	2.25E-07	2.79E-06	2.79E-06	7.24E-07	9.94E-07	8.373E-06
608005.05	4207686.18	5.03364	2.66189	4.70945	2.76025	14.23616	10.76500	1.11E-06	3.87E-07	2.58E-06	2.58E-06	1.99E-06	5.10E-07	9.154E-06
607875.28	4207684.34	3.59703	1.45846	5.12818	4.84185	4.65316	20.34056	7.95E-07	2.12E-07	2.81E-06	2.81E-06	6.49E-07	9.64E-07	8.237E-06
607932.49	4207670.31	4.05486	1.86147	4.61051	3.52585	7.19238	16.03974	8.97E-07	2.71E-07	2.52E-06	2.52E-06	1.00E-06	7.60E-07	7.980E-06
607851.10	4207699.32	3.45901	1.32106	5.64383	5.88003	3.92647	21.75283	7.65E-07	1.92E-07	3.09E-06	3.09E-06	5.48E-07	1.03E-06	8.717E-06
607947.03	4207670.49	4.20040	1.98711	4.56692	3.31353	8.10429	14.73104	9.29E-07	2.89E-07	2.50E-06	2.50E-06	1.13E-06	6.98E-07	8.048E-06
607917.94	4207670.14	3.89400	1.74583	4.64580	3.74355	6.39130	16.97132	8.61E-07	2.54E-07	2.54E-06	2.54E-06	8.92E-07	8.05E-07	7.899E-06
607961.58	4207670.66	4.32820	2.12293	4.51367	3.10936	9.12634	13.25814	9.57E-07	3.09E-07	2.47E-06	2.47E-06	1.27E-06	6.28E-07	8.111E-06
607976.13	4207670.83	4.44199	2.26979	4.45154	2.91791	10.25377	11.83775	9.82E-07	3.30E-07	2.44E-06	2.44E-06	1.43E-06	5.61E-07	8.179E-06
607904.29	4207669.88	3.73111	1.64555	4.67083	3.94995	5.73454	17.39482	8.25E-07	2.39E-07	2.56E-06	2.56E-06	8.00E-07	8.25E-07	7.804E-06
607829.26	4207718.69	3.32626	1.21335	6.38401	7.33108	3.39903	21.91137	7.36E-07	1.76E-07	3.50E-06	3.50E-06	4.74E-07	1.04E-06	9.416E-06
607990.68	4207671.01	4.54418	2.42806	4.38044	2.74217	11.45841	10.56936	1.00E-06	3.53E-07	2.40E-06	2.40E-06	1.60E-06	5.01E-07	8.255E-06
607889.93	4207669.61	3.55433	1.54775	4.69403	4.17125	5.13562	17.40671	7.86E-07	2.25E-07	2.57E-06	2.57E-06	7.16E-07	8.25E-07	7.693E-06
608005.22	4207671.18	4.63601	2.59835	4.30156	2.58217	12.70681	9.46118	1.03E-06	3.78E-07	2.36E-06	2.36E-06	1.77E-06	4.48E-07	8.335E-06
607851.10	4207684.32	3.25752	1.31988	5.16004	5.26819	3.91094	18.54518	7.20E-07	1.92E-07	2.83E-06	2.83E-06	5.46E-07	8.79E-07	7.988E-06
607875.56	4207669.34	3.37515	1.45731	4.71316	4.39171	4.61801	17.05031	7.46E-07	2.12E-07	2.58E-06	2.58E-06	6.44E-07	8.08E-07	7.573E-06
607932.67	4207655.31	3.77543	1.84281	4.24983	3.26274	6.89765	13.56250	8.35E-07	2.68E-07	2.33E-06	2.33E-06	9.62E-07	6.43E-07	7.362E-06
607947.21	4207655.49	3.90401	1.96143	4.20547	3.07500	7.68119	12.55129	8.63E-07	2.85E-07	2.30E-06	2.30E-06	1.07E-06	5.95E-07	7.421E-06
607826.62	4207704.78	3.12843	1.19976	5.84662	6.59934	3.33446	19.10127	6.92E-07	1.75E-07	3.20E-06	3.20E-06	4.65E-07	9.05E-07	8.640E-06
607961.76	4207655.66	4.01764	2.08900	4.15325	2.89486	8.53783	11.40802	8.89E-07	3.04E-07	2.27E-06	2.27E-06	1.19E-06	5.41E-07	7.473E-06
607904.57	4207654.88	3.49093	1.63711	4.30915	3.62943	5.60015	14.63296	7.72E-07	2.38E-07	2.36E-06	2.36E-06	7.81E-07	6.94E-07	7.204E-06
607976.31	4207655.84	4.11905	2.22622	4.09381	2.72578	9.45828	10.29263	9.11E-07	3.24E-07	2.24E-06	2.24E-06	1.32E-06	4.88E-07	7.525E-06
607890.21	4207654.61	3.33591	1.54279	4.33307	3.82213	5.04875	14.69542	7.38E-07	2.24E-07	2.37E-06	2.37E-06	7.04E-07	6.97E-07	7.108E-06
607990.86	4207656.01	4.20998	2.37370	4.02576	2.56902	10.41752	9.28041	9.31E-07	3.45E-07	2.20E-06	2.20E-06	1.45E-06	4.40E-07	7.578E-06
607808.09	4207727.44	3.01762	1.12458	6.76517	8.34601	2.98531	18.50129	6.67E-07	1.64E-07	3.70E-06	3.70E-06	4.16E-07	8.77E-07	9.533E-06
607851.10	4207669.32	3.07449	1.31815	4.74477	4.76455	3.89135	15.88332	6.80E-07	1.92E-07	2.60E-06	2.60E-06	5.43E-07	7.53E-07	7.364E-06
608005.40	4207656.18	4.29208	2.53161	3.95091	2.42547	11.38919	8.38817	9.49E-07	3.68E-07	2.16E-06	2.16E-06	1.59E-06	3.98E-07	7.631E-06
607813.39	4207710.25	2.96540	1.14259	6.05070	7.13408	3.07335	17.63789	6.56E-07	1.66E-07	3.31E-06	3.31E-06	4.29E-07	8.36E-07	8.713E-06
607827.15	4207689.57	2.97843	1.19965	5.33332	5.86956	3.33857	16.88014	6.59E-07	1.75E-07	2.92E-06	2.92E-06	4.66E-07	8.00E-07	7.940E-06
607875.85	4207654.34	3.17840	1.45478	4.35234	4.01333	4.56357	14.48973	7.03E-07	2.12E-07	2.38E-06	2.38E-06	6.37E-07	6.87E-07	7.005E-06
607932.85	4207640.31	3.52976	1.82015	3.93129	3.03154	6.57616	11.64267	7.81E-07	2.65E-07	2.15E-06	2.15E-06	9.17E-07	5.52E-07	6.820E-06
607947.39	4207640.49	3.64376	1.93154	3.88730	2.86515	7.24435	10.84562	8.06E-07	2.81E-07	2.13E-06	2.13E-06	1.01E-06	5.14E-07	6.869E-06
607961.94	4207640.66	3.74574	2.05166	3.83656	2.70503	7.96055	9.93723	8.28E-07	2.98E-07	2.10E-06	2.10E-06	1.11E-06	4.71E-07	6.910E-06
607862.34	4207654.32	3.03226	1.37758	4.37174	4.19542	4.16204	14.13412	6.71E-07	2.00E-07	2.39E-06	2.39E-06	5.81E-07	6.70E-07	6.909E-06
607904.65	4207639.73	3.27477	1.62388	3.98858	3.35334	5.42673	12.49055	7.24E-07	2.36E-07	2.18E-06	2.18E-06	7.57E-07	5.92E-07	6.678E-06
607976.49	4207640.84	3.83666	2.18016	3.77921	2.55414	8.71283	9.03916	8.48E-07	3.17E-07	2.07E-06	2.07E-06	1.22E-06	4.28E-07	6.948E-06
607814.45	4207694.81	2.84781	1.14491	5.50779	6.31279	3.08921	15.97766	6.30E-07	1.67E-07	3.02E-06	3.02E-06	4.31E-07	7.57E-07	8.017E-06
607890.49	4207639.61	3.14158	1.53488	4.01506	3.52201	4.93473	12.58835	6.95E-07	2.23E-07	2.20E-06	2.20E-06	6.88E-07	5.97E-07	6.600E-06
607827.50	4207674.42	2.83659	1.20080	4.89813	5.27792	3.34055	14.86153	6.27E-07	1.75E-07	2.68E-06	2.68E-06	4.66E-07	7.04E-07	7.337E-06
607991.04	4207641.01	3.91793	2.31724	3.71532	2.41439	9.48145	8.21905	8.66E-07	3.37E-07	2.03E-06	2.03E-06	1.32E-06	3.90E-07	6.985E-06
607800.16	4207715.71	2.79442	1.09081	6.26193	7.68931	2.84452	15.96939	6.18E-07	1.59E-07	3.43E-06	3.43E-06	3.97E-07	7.57E-07	8.788E-06
607876.13	4207639.34	3.00327	1.45071	4.03661	3.69207	4.48836	12.47368	6.64E-07	2.11E-07	2.21E-06	2.21E-06	6.26E-07	5.91E-07	6.513E-06
608005.58	4207641.19	3.99164	2.46287	3.64686	2.28653	10.24926	7.49562	8.83E-07	3.58E-07	2.00E-06	2.00E-06	1.43E-06	3.55E-07	7.020E-06
607839.85	4207654.32	2.79027	1.26043	4.39711	4.48907	3.59340	13.20416	6.17E-07	1.83E-07	2.41E-06	2.41E-06	5.01E-07	6.26E-07	6.743E-06
607801.74	4207700.06	2.70912	1.09504	5.68910	6.77653	2.86892	14.84899	5.99E-07	1.59E-07	3.12E-06	3.12E-06	4.00E-07	7.04E-07	8.093E-06
607933.02	4207625.32	3.31172	1.79395	3.64870	2.82729	6.24075	10.12282	7.32E-07	2.61E-07	2.00E-06	2.00E-06	8.71E-07	4.80E-07	6.340E-06
607862.34	4207639.32	2.87125	1.37445	4.05656	3.85548	4.10503	12.23724	6.35E-07	2.00E-07	2.22E-06	2.22E-06	5.73E-07	5.80E-07	6.430E-06
607947.57	4207625.49	3.41385	1.89910	3.60557	2.67882	6.80956	9.48121	7.55E-07	2.76E-07	1.97E-06	1.97E-06	9.50E-07	4.49E-07	6.379E-06
607962.12	4207625.66	3.50542	2.01170	3.55672	2.53611	7.40731	8.74821	7.75E-07	2.93E-07	1.95E-06	1.95E-06	1.03E-06	4.15E-07	6.411E-06
607904.83	4207624.73	3.08544	1.60847	3.70881	3.11613	5.23785	10.82302	6.82E-07	2.34E-07	2.03E-06	2.03E-06	7.31E-07	5.13E-07	6.222E-06
607976.67	4207625.84	3.58681	2.13123	3.50302	2.40217	8.02369	8.01818	7.93E-07	3.10E-07	1.92E-06	1.92E-06	1.12E-06	3.80E-07	6.439E-06
607890.77	4207624.62	2.96917	1.52512	3.73689	3.26646	4.80132	10.92506	6.57E-07	2.22E-07	2.05E-06	2.05E-06	6.70E-07	5.18E-07	6.159E-06
607802.80	4207684.62	2.61490	1.09858	5.20495	6.04017	2.88576	13.59966	5.78E-07	1.60E-07	2.85E-06	2.85E-06	4.03E-07	6.45E-07	7.486E-06
607991.22	4207626.01	3.65983	2.25851	3.44370	2.27706	8.64490	7.34257	8.09E-07	3.29E-07	1.89E-06	1.89E-06	1.21E-06	3.48E-07	6.463E-06
607876.41	4207624.35	2.84710	1.44512	3.76019	3.41878	4.39527	10.86401	6.30E-07	2.10E-07	2.06E-06	2.06E-06	6.13E-07	5.15E-07	6.086E-06
607839.85	4207639.32	2.65687	1.26065	4.08313	4.11551	3.56572	11.59239	5.88E-07	1.83E-07	2.24E-06	2.24E-06	4.97E-07	5.50E-07	6.290E-06
608005.76	4207626.19	3.72603	2.39282	3.38005	2.16192	9.25559	6.74269	8.24E-07	3.48E-07	1.85E-06	1.85E-06	1.29E-06	3.20E-07	6.485E-06
607789.04	4207705.30	2.56443	1.04847	5.87089	7.24742	2.67181	13.59412	5.67E-07	1.53E-07	3.21E-06	3.21E-06	3.73E-07	6.44E-07	8.166E-06
607862.34	4207624.32	2.72672	1.37007	3.77911	3.56425	4.03260	10.70258	6.03E-07	1.99E-07	2.07E-06	2.07E-06	5.63E-07	5.07E-07	6.011E-06
607933.20	4207610.32	3.11679	1.76520	3.39654	2.64544	5.90304	8.89526	6.89E-07	2.57E-07	1.86E-06	1.86E-06	8.23E-07	4.22E-07	5.911E-06

Unmitigated 2021
Diesel Truck Emissions

Annual Average Offsite Total DPM Emission Rate - Segment 7 (grams/sec):	3.86E-06	SLINE7	ONSITE3
Annual Average Offsite Total DPM Emission Rate - Segment 8 (grams/sec):	5.28E-06	SLINE8	ONSITE4
Annual Average Offsite Total DPM Emission Rate - Segment 9 (grams/sec):	2.16E-06	SLINE9	Idle1
Annual Average Offsite Total DPM Emission Rate - Segment 10 (grams/sec):	2.16E-06	SLINE10	Idle2
Annual Average Offsite Total DPM Emission Rate - Segment 11 (grams/sec):	2.16E-06	SLINE11	Idle3
Annual Average Offsite Total DPM Emission Rate - Segment 12 (grams/sec):	4.13E-08	SLINE12	Idle4
Annual Average Offsite Total DPM Emission Rate - Segment 13 (grams/sec):	2.02E-06	SLINE13	Onsite5

		Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	Unit Emissions AVERAGE CONC	SLINE1 SLINE1 Annual DPM Exhaust w/Actual Emissions	SLINE2 SLINE2 Annual DPM Exhaust w/Actual Emissions	SLINE3 SLINE3 Annual DPM Exhaust w/Actual Emissions	SLINE4 SLINE4 Annual DPM Exhaust w/Actual Emissions	SLINE5 SLINE5 Annual DPM Exhaust w/Actual Emissions	SLINE6 SLINE6 Annual DPM Exhaust w/Actual Emissions	SLINE6 SLINE6 Annual DPM Exhaust w/Actual Emissions	Total DPM
X	Y	SLINE7	SLINE8	SLINE9	SLINE10	SLINE11	SLINE12	SLINE13	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
607888.80	4207729.60	20.06564	15.22863	21.68645	31.51984	3.73183	3.73578	38.29822	7.74E-05	8.03E-05	4.69E-05	4.69E-05	8.07E-06	1.54E-07	7.73E-05	3.371E-04
607874.44	4207729.33	17.59858	13.41189	19.44000	26.38827	3.42239	3.42880	39.87833	6.79E-05	7.08E-05	4.20E-05	4.20E-05	7.40E-06	1.41E-07	8.05E-05	3.108E-04
607889.08	4207714.60	17.17554	13.12429	18.59755	26.90399	3.73819	3.72807	29.27588	6.63E-05	6.92E-05	4.02E-05	4.02E-05	8.08E-06	1.54E-07	5.91E-05	2.833E-04
607946.67	4207700.48	18.71252	14.25444	17.96090	28.58685	5.56249	5.39264	15.29154	7.22E-05	7.52E-05	3.88E-05	3.88E-05	1.20E-05	2.23E-07	3.09E-05	2.682E-04
607932.13	4207700.31	18.07690	13.80482	17.99742	28.31156	4.99305	4.88106	17.45584	6.98E-05	7.28E-05	3.89E-05	3.89E-05	1.08E-05	2.01E-07	3.52E-05	2.667E-04
607961.22	4207700.66	19.11162	14.51373	17.47569	27.67408	6.22544	5.97302	13.33253	7.38E-05	7.66E-05	3.78E-05	3.78E-05	1.35E-05	2.46E-07	2.69E-05	2.665E-04
607917.58	4207700.14	17.18680	13.15610	17.62956	27.09031	4.49924	4.42776	19.61376	6.63E-05	6.94E-05	3.81E-05	3.81E-05	9.73E-06	1.83E-07	3.96E-05	2.615E-04
607874.72	4207714.33	15.40112	11.81245	17.03793	23.30049	3.42923	3.42553	30.58005	5.94E-05	6.23E-05	3.68E-05	3.68E-05	7.41E-06	1.41E-07	6.17E-05	2.647E-04
607975.77	4207700.83	19.30050	14.60207	16.51280	25.63711	7.00412	6.63244	11.63708	7.45E-05	7.70E-05	3.57E-05	3.57E-05	1.51E-05	2.74E-07	2.35E-05	2.618E-04
607903.73	4207699.87	16.13996	12.38451	16.96186	25.23960	4.09859	4.05254	21.52777	6.23E-05	6.53E-05	3.67E-05	3.67E-05	8.86E-06	1.67E-07	4.35E-05	2.535E-04
607990.32	4207701.01	19.37830	14.59520	15.24820	23.00000	7.90205	7.37011	10.25799	7.48E-05	7.70E-05	3.30E-05	3.30E-05	1.71E-05	3.04E-07	2.07E-05	2.558E-04
607851.10	4207729.32	13.91384	10.68837	15.95248	19.62384	2.99507	3.00305	38.69643	5.37E-05	5.64E-05	3.45E-05	3.45E-05	6.48E-06	1.24E-07	7.81E-05	2.638E-04
608004.87	4207701.18	19.36661	14.52155	13.84174	20.18057	8.94873	8.19749	9.13349	7.47E-05	7.66E-05	2.99E-05	2.99E-05	1.93E-05	3.38E-07	1.84E-05	2.493E-04
607889.36	4207699.60	14.90954	11.47271	16.03827	22.92117	3.74099	3.71251	23.18404	5.75E-05	6.05E-05	3.47E-05	3.47E-05	8.09E-06	1.53E-07	4.68E-05	2.425E-04
607946.85	4207685.49	15.96247	12.28381	15.12791	22.99783	5.49341	5.26940	13.07349	6.16E-05	6.48E-05	3.27E-05	3.27E-05	1.19E-05	2.17E-07	2.64E-05	2.303E-04
607932.31	4207685.31	15.47339	11.92464	15.20847	22.94710	4.95151	4.79470	14.68410	5.97E-05	6.29E-05	3.29E-05	3.29E-05	1.07E-05	1.98E-07	2.96E-05	2.289E-04
607875.00	4207699.33	13.59564	10.49585	14.94594	20.43228	3.43269	3.41559	24.22958	5.25E-05	5.54E-05	3.23E-05	3.23E-05	7.42E-06	1.41E-07	4.89E-05	2.289E-04
607961.40	4207685.66	16.27652	12.50887	14.72763	22.29238	6.11883	5.80222	11.57006	6.28E-05	6.60E-05	3.18E-05	3.18E-05	1.32E-05	2.39E-07	2.34E-05	2.293E-04
607917.76	4207685.14	14.80205	11.42590	14.99704	22.25656	4.47685	4.36928	16.27657	5.71E-05	6.03E-05	3.24E-05	3.24E-05	9.68E-06	1.80E-07	3.29E-05	2.250E-04
607851.10	4207714.32	12.62475	9.75063	14.41432	18.12469	2.99549	2.99790	30.38681	4.87E-05	5.14E-05	3.12E-05	3.12E-05	6.48E-06	1.24E-07	6.13E-05	2.304E-04
607975.95	4207685.83	16.41602	12.60296	13.98858	20.80641	6.84301	6.39844	10.22020	6.34E-05	6.65E-05	3.02E-05	3.02E-05	1.48E-05	2.64E-07	2.06E-05	2.260E-04
607904.01	4207684.88	14.02072	10.84304	14.56341	21.11605	4.08933	4.01446	17.66957	5.41E-05	5.72E-05	3.15E-05	3.15E-05	8.84E-06	1.66E-07	3.57E-05	2.190E-04
607990.50	4207686.01	16.44854	12.62273	13.00997	18.89958	7.66501	7.05406	9.08895	6.35E-05	6.66E-05	2.81E-05	2.81E-05	1.66E-05	2.91E-07	1.83E-05	2.215E-04
607889.64	4207684.61	13.09030	10.14703	13.92682	19.59167	3.73620	3.68569	18.88216	5.05E-05	5.35E-05	3.01E-05	3.01E-05	8.08E-06	1.52E-07	3.81E-05	2.106E-04
608005.05	4207686.18	16.39654	12.59941	11.92220	16.84932	8.60301	7.77436	8.14995	6.33E-05	6.65E-05	2.58E-05	2.58E-05	1.86E-05	3.21E-07	1.65E-05	2.167E-04
607875.28	4207684.34	12.08964	9.39687	13.14916	17.87298	3.42830	3.39483	19.70423	4.67E-05	4.96E-05	2.84E-05	2.84E-05	7.41E-06	1.40E-07	3.98E-05	2.004E-04
607932.49	4207670.31	13.42613	10.45319	13.03196	18.97687	4.88945	4.68876	12.54642	5.18E-05	5.52E-05	2.82E-05	2.82E-05	1.06E-05	1.93E-07	2.53E-05	1.994E-04
607851.10	4207699.32	11.44204	8.88736	12.98613	16.51614	2.99177	2.98686	24.44905	4.42E-05	4.69E-05	2.81E-05	2.81E-05	6.47E-06	1.23E-07	4.94E-05	2.031E-04
607947.03	4207670.49	13.80044	10.74442	12.93584	18.92383	5.40122	5.12612	11.30421	5.33E-05	5.67E-05	2.80E-05	2.80E-05	1.17E-05	2.12E-07	2.28E-05	2.006E-04
607917.94	4207670.14	12.91715	10.06326	12.91673	18.58425	4.43995	4.29501	13.77286	4.99E-05	5.31E-05	2.79E-05	2.79E-05	9.60E-06	1.77E-07	2.72E-05	1.964E-04
607961.58	4207670.66	14.03199	10.93241	12.59980	18.33547	5.98257	5.60919	10.12098	5.42E-05	5.77E-05	2.72E-05	2.72E-05	1.29E-05	2.31E-07	2.04E-05	1.999E-04
607976.13	4207670.83	14.13941	11.03466	12.01799	17.25155	6.64112	6.13926	9.05200	5.46E-05	5.82E-05	2.60E-05	2.60E-05	1.44E-05	2.53E-07	1.83E-05	1.976E-04
607904.29	4207669.88	12.31871	9.60802	12.62774	17.86236	4.06769	3.96182	14.81282	4.75E-05	5.07E-05	2.73E-05	2.73E-05	8.79E-06	1.63E-07	2.99E-05	1.917E-04
607829.26	4207718.69	10.57140	8.21759	12.40521	14.52170	2.65833	2.66455	29.52235	4.08E-05	4.34E-05	2.68E-05	2.68E-05	5.75E-06	1.10E-07	5.96E-05	2.033E-04
607990.68	4207671.01	14.13962	11.07156	11.24767	15.83384	7.38074	6.71516	8.12075	5.46E-05	5.84E-05	2.43E-05	2.43E-05	1.60E-05	2.77E-07	1.64E-05	1.942E-04
607889.93	4207669.61	11.59898	9.06188	12.18013	16.84166	3.72227	3.64706	15.72152	4.48E-05	4.78E-05	2.63E-05	2.63E-05	8.05E-06	1.51E-07	3.17E-05	1.852E-04
608005.22	4207671.18	14.03661	11.06016	10.37459	14.26750	8.20717	7.33552	7.32061	5.42E-05	5.84E-05	2.24E-05	2.24E-05	1.77E-05	3.03E-07	1.48E-05	1.902E-04
607851.10	4207684.32	10.39038	8.11836	11.67264	14.93788	2.98390	2.96939	20.05384	4.01E-05	4.28E-05	2.52E-05	2.52E-05	6.45E-06	1.23E-07	4.05E-05	1.805E-04
607875.56	4207669.34	10.81635	8.46836	11.61392	15.63768	3.41709	3.36449	16.35608	4.17E-05	4.47E-05	2.51E-05	2.51E-05	7.39E-06	1.39E-07	3.30E-05	1.772E-04
607932.67	4207655.31	11.77492	9.27118	11.30055	15.96292	4.80492	4.56456	10.85870	4.54E-05	4.89E-05	2.44E-05	2.44E-05	1.04E-05	1.88E-07	2.19E-05	1.757E-04
607947.21	4207655.49	12.05971	9.50983	11.19898	15.86224	5.28036	4.96232	9.87980	4.65E-05	5.02E-05	2.42E-05	2.42E-05	1.14E-05	2.05E-07	1.99E-05	1.767E-04
607826.62	4207704.78	9.66583	7.55172	11.29719	13.37555	2.61946	2.62249	24.28086	3.73E-05	3.98E-05	2.44E-05	2.44E-05	5.66E-06	1.08E-07	4.90E-05	1.808E-04
607961.76	4207655.66	12.23102	9.67119	10.91555	15.37837	5.81278	5.39564	8.93629	4.72E-05	5.10E-05	2.36E-05	2.36E-05	1.26E-05	2.23E-07	1.80E-05	1.763E-04
607904.57	4207654.88	10.91572	8.59221	11.04340	15.27337	4.02714	3.89095	12.60980	4.21E-05	4.53E-05	2.39E-05	2.39E-05	8.71E-06	1.61E-07	2.55E-05	1.695E-04
607976.31	4207655.84	12.30388	9.76984	10.44715	14.55338	6.40606	5.86408	8.07230	4.75E-05	5.15E-05	2.26E-05	2.26E-05	1.38E-05	2.42E-07	1.63E-05	1.746E-04
607890.21	4207654.61	10.35257	8.15643	10.72543	14.57701	3.69489	3.59420	13.31843	4.00E-05	4.30E-05	2.32E-05	2.32E-05	7.99E-06	1.48E-07	2.69E-05	1.644E-04
607990.86	4207656.01	12.28013	9.81411	9.83087	13.47357	7.06156	6.36511	7.30172	4.74E-05	5.18E-05	2.13E-05	2.13E-05	1.53E-05	2.63E-07	1.47E-05	1.720E-04
607808.09	4207727.44	8.89511	6.96216	10.67549	11.74782	2.38499	2.39253	27.76849	3.43E-05	3.67E-05	2.31E-05	2.31E-05	5.16E-06	9.87E-08	5.61E-05	1.785E-04
607851.10	4207669.32	9.45546	7.43493	10.49418	13.44229	2.97426	2.94758	16.72934	3.65E-05	3.92E-05	2.27E-05	2.27E-05	6.43E-06	1.22E-07	3.38E-05	1.614E-04
608005.40	4207656.18	12.16653	9.81888	9.13069	12.27243	7.78035	6.89558	6.62856	4.70E-05	5.18E-05	1.97E-05	1.97E-05	1.68E-05	2.85E-07	1.34E-05	1.687E-04
607813.39	4207710.25	8.81491	6.91054	10.45344	11.91679	2.44770	2.45291	23.92655	3.40E-05	3.65E-05	2.26E-05	2.26E-05	5.29E-06	1.01E-07	4.83E-05	1.694E-04
607827.15	4207689.57	9.01424	7.07547	10.42695	12.55310	2.62292	2.62077	20.23447	3.48E-05	3.73E-05	2.25E-05	2.25E-05	5.67E-06	1.08E-07	4.08E-05	1.638E-04
607875.85	4207654.34	9.73446	7.68058	10.31034	13.72377	3.39881	3.32522	13.82353	3.76E-05	4.05E-05	2.23E-05	2.23E-05	7.35E-06	1.37E-07	2.79E-05	1.581E-04
607932.85	4207640.31	10.41663	8.30059	9.89944	13.62307	4.69799	4.42456	9.50153	4.02E-05	4.38E-05	2.14E-05	2.14E-05	1.02E-05	1.83E-07	1.92E-05	1.563E-04
607947.39	4207640.49	10.63445	8.49948	9.79871	13.50563	5.13356	4.78262	8.71989	4.10E-05	4.48E-05	2.12E-05	2.12E-05	1.11E-05	1.97E-07	1.76E-05	1.572E-04
607961.94	4207640.66	10.75825	8.63796	9.55846	13.10452	5.61649	5.16904	7.95285	4.15E-05	4.56E-05	2.07E-05	2.07E-05	1.21E-05	2.13E-07	1.61E-05	1.568E-04
607862.34	4207625.32	9.13919	7.22211	9.86643	12.84931	3.14979	3.00595	14.11445	3.53E-05	3.81E-05	2.13E-05	2.13E-05	6.81E-06	1.28E-07	2.85E-05	1.515E-04
607904.65	4207639.73	9.72966	7.73483	9.72429	13.16969	3.96637	3.80209	10.88279	3.76E-05	4.08E-05	2.10E-05	2.10E-05	8.58E-06	1.57E-07	2.20E-05	1.511E-04
607976.49	4207640.84	10.79978	8.72682	9.17291	12.45467	6.14559	5.58036	7.24189	4.17E-05	4.60E-05	1.98E-05	1.98E-05	1.33E-05	2.30E-07	1.46E-05	1.555E-04
607814.45	4207694.81	8.36651	6.58354	9.81982	11.43361	2.45971	2.46145	20.25825	3.23E-05	3.47E-05	2.12E-05	2.12E-05	5.32E-06	1.02E-07	4.09E-05	1.558E-04
607890.49	4207639.61	9.29953	7.39274	9.50905	12.71012	3.65515	3.52951	11.45135	3.59E-05	3.90E-05	2.06E-05	2.06E-05	7.90E-06	1.46E-07	2.31E-05	1.472E-04
607827.50	4207674.42	8.37984	6.61169	9.57903	11.65832	2.62427	2.61480	17.06227	3.23E-05	3.49E-05	2.07E-05	2.07E-05	5.67E-06	1.08E-07	3.44E-05	1.489E-04
607991.04	4207641.01	10.76354	8.77468	8.67604	11.62104	6.72002	6.01353	6.60308	4.15E-05	4.63E-05	1.88E-05	1.88E-05	1.45E-05	2.48E-07	1.33E-05	1.535E-04
607800.16	4207715.71	7.97092	6.27512	9.56937	10.54925	2.29290	2.29895	22.84641	3.08E-05	3.31E-05	2.07E-05	2.07E-05	4.96E-06	9.49E-08	4.61E-05	1.564E-04
607876.13	4207639.34	8.80788	7.00697	9.20336	12.09934	3.37211	3.27692	11.86684	3.40E-05	3.70E-05	1.99E-05	1.99E-05	7.29E-06	1.35E-07	2.40E-05	1.421E-04
608005.58	4207641.19	10.65850	8.79387	8.11429	10.69570	7.33911	6.46516	6.04115	4.11E-05	4.64E-05	1.75E-05	1.75E-05	1.59E-05	2.67E-07	1.22E-05	1.509E-04
607839.85	4207654.32	8.12545	6.44480	9.01803	11.29214	2.78929	2.75850	14.10279	3.14E-05	3.40E-05	1.95E-05	1.95E-05	6.03E-06	1.14E-07	2.85E-05	1.390E-04
607801.74	4207700.06	7.70030	6.07882	9.15275	10.32777	2.31174	2.31551	19.78710	2.97E-05	3.21E-05	1.98E-05	1.98E-05	5.00E-06	9.56E-08	3.99E-05	1.464E-04
607933.02	4207625.32	9.28296	7.48948	8.74972	11.77159	4.57100	4.27231	8.39530	3.58E-05	3.95E-05	1.89E-05	1.89E-05	9.88E-06	1.76E-07	1.69E-05	1.402E-04
607862.34	4207639.32	8.31761	6.62393	8.86149	11.44238	3.12666	3.05482	12.12043	3.21E-05	3.49E-05	1.92E-05	1.92E-05	6.76E-06	1.26E-07	2.45E-05	1.367E-04
607947.57	4207625.49	9.44824	7.65624	8.65377	11.64969	4.96771	4.59369	7.75695	3.65E-05	4.04E-05	1.87E-05	1.87E-05	1.07E-05	1.90E-07	1.57E-05	1.409E-04
607962.12	4207625.66	9.53745	7.77606	8.44853	11.31843	5.40048	4.93550	7.12868	3.68E-05	4.10E-05	1.83E-05	1.83E-05	1.17E-05	2.04E-07	1.44E-05	1.406E-04
607904.83	4207624.73	8.74288	7.02232	8.64172	11.48515	3.89527	3.70613	9.51667	3.37E-05	3.71E-05	1.87E-05	1.87E-05	8.42E-06	1.53E-07	1.92E-05	1.359E-04
607976.67	4207625.84	9.56133	7.85854	8.13456	10.80956	5.86733	5.29449	6.54450	3.69E-05	4.15E-05	1.76E-05	1.76E-05	1.27E-05	2.18E-07	1.32E-05	1.397E-04
607890.77	4207624.62	8.40449	6.74463	8.48966	11.16758	3.60573	3.45664	9.97879	3.24E-05	3.56E-05	1.84E-05	1.84E-05	7.80E-06	1.43E-07	2.01E-05	1.328E-04
607802.80	4207684.62	7.35854	5.82967	8.64865	9.94423	2.32390	2.32421	17.11817	2.84E-05	3.08E-05	1.87E-05	1.87E-05	5.02E-06	9.59E-08	3.46E-05	1.362E-04
607991.22	4207626.01	9.51932	7.90648	7.72907	10.15394	6.36734	5.66775	6.01013	3.67E-05	4.17E-05	1.67E-05	1.67E-05	1.38E-05	2.34E-07	1.21E-05	1.380E-04
607876.41	4207624.35	8.00978	6.42762	8.26226	10.72493	3.33757	3.22123	10.32380	3.09E-05	3.39E-05	1.79E-05	1.79E-05	7.22E-06	1.33E-07	2.08E-05	1.287E-04
607839.85	4207639.32	7.49097	5.98130	8.20475	10.25361	2.77656	2.73234	12.16640	2.89E-05	3.16E-05	1.77E-05	1.77E-05	6.00E-06	1.13E-07	2.46E-05	1.266E-04
608005.76	4207626.19	9.41817	7.92801	7.26836	9.42039	6.89644	6.05058	5.53376	3.63E-05	4.18E-05	1.57E-05	1.57E-05	1.49E-05	2.50E-07	1.12E-05	1.359E-04
607789.04	4207705.30	7.03910	5.57824	8.45593	9.27656	2.17596	2.18069	18.87449	2.72E-05	2.94E-05	1.83E-05	1.83E-05	4.70E-06	9.00E-08	3.81E-05	1.361E-04
607862.34	4207624.32	7.60194	6.10270	7.99508	10.22652	3.09689	3.00698	10.54220	2.93E-05	3.22E-05	1.73E-05	1.73E-05	6.70E-06	1.24E-07	2.13E-05	1.242E-04
607933.20	4207610.32	8.32458	6.80099	7.79355	10.27992	4.42873	4.11244	7.47867	3.21E-05	3.59E-05	1.68E-05	1.68E-05	9.57E-06	1.70E-07	1.51E-05	1.266E-04
607947.75	4207610.49	8.45124	6.94245	7.70355	10.16423	4.78541	4.39822	6.95535	3.26E-05	3.66E-05	1.67E-05	1.67E-05	1.03E-05	1.81E-07	1.40E-05	1.271E-04
607962.30	4207610.66	8.51639	7.04745	7.52797	9.89596	5.17044	4.69941	6.43636	3.29E-05	3.72E-05	1.63E-05	1.63E-05	1.12E-05	1.94E-07	1.30E-05	1.270E-04
607891.05	4207609.62	7.63081	6.18421	7.62363	9.87895	3.54420	3.37461	8.78113	2.95E-05	3.26E-05	1.65E-05	1.65E-05	7.66E-06	1.39E-07	1.77E-05	1.206E-04
607976.85	4207610.84	8.52359	7.11977	7.26781	9.48250	5.58087	5.01238	5.94552	3.29E-05	3.76E-05	1.57E-05	1.57E-05	1.21E-05	2.07E-07	1.20E-05	1.262E-04
607876.69	4207609.35	7.31006	5.91944	7.45133	9.55334	3.29107	3.15560	9.06908	2.82E-05	3.12E-05	1.61E-05	1.61E-05	7.12E-06	1.30E-07	1.83E-05	1.172E-04
607839.85	4207624.32	6.91892	5.56349	7.48005	9.31188	2.75783	2.69951	10.61043	2.67E-05	2.94E-05	1.62E-05	1.62E-05	5.96E-06	1.11E-07	2.14E-05	1.159E-04
607991.40	4207611.01	8.47723	7.16411	6.93468	8.95946	6.01326	5.33313	5.49566	3.27E-05	3.78E-05	1.50E-05	1.50E-05	1.30E-05	2.20E-07	1.11E-05	1.248E-04
607791.46	4207674.31	6.55073	5.22308	7.69612	8.76062	2.20409	2.20302	14.64804	2.53E-05	2.76E-05	1.66E-05	1.66E-05	4.77E-06	9.09E-08	2.96E-05	1.205E-04

Unmitigated 2021
Diesel Truck Emissions

Annual Average Offsite Total DPM Emission Rate - Segment 7 (grams/sec/m2): 3.86E-06 SLINE7 ONSITE3
Annual Average Offsite Total DPM Emission Rate - Segment 8 (grams/sec/m2): 5.28E-06 SLINE8 ONSITE4

X	Y	Unit Emissions AVERAGE CONC g/s SLINE7	Unit Emissions AVERAGE CONC g/s SLINE8	Unit Emissions AVERAGE CONC g/s/m2 SLINE7	Unit Emissions AVERAGE CONC g/s/m2 SLINE8	SLINE1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE2 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
607888.80	4207729.60	15.8540	20.9775	0.2920	0.1583	1.13E-06	8.35E-07	1.962E-06
607874.44	4207729.33	13.4903	20.5913	0.2484	0.1554	9.59E-07	8.20E-07	1.779E-06
607889.08	4207714.60	14.9004	17.4327	0.2744	0.1316	1.06E-06	6.94E-07	1.753E-06
607946.67	4207700.48	21.8081	12.2858	0.4016	0.0927	1.55E-06	4.89E-07	2.039E-06
607932.13	4207700.31	19.8117	13.2604	0.3649	0.1001	1.41E-06	5.28E-07	1.936E-06
607961.22	4207700.66	23.5664	11.1987	0.4340	0.0845	1.67E-06	4.46E-07	2.121E-06
607917.58	4207700.14	17.7022	14.0302	0.3260	0.1059	1.26E-06	5.59E-07	1.817E-06
607874.72	4207714.33	12.8801	17.2532	0.2372	0.1302	9.15E-07	6.87E-07	1.602E-06
607975.77	4207700.83	24.7813	10.1003	0.4564	0.0762	1.76E-06	4.02E-07	2.164E-06
607903.73	4207699.87	15.7260	14.5175	0.2896	0.1096	1.12E-06	5.78E-07	1.696E-06
607990.32	4207701.01	25.3286	9.1056	0.4665	0.0687	1.80E-06	3.63E-07	2.163E-06
607851.10	4207729.32	10.5323	19.1105	0.1940	0.1442	7.49E-07	7.61E-07	1.510E-06
608004.87	4207701.18	25.0547	8.2317	0.4614	0.0621	1.78E-06	3.28E-07	2.109E-06
607889.36	4207699.60	13.8375	14.7332	0.2548	0.1112	9.84E-07	5.87E-07	1.570E-06
607946.85	4207685.49	18.5585	10.6683	0.3418	0.0805	1.32E-06	4.25E-07	1.744E-06
607932.31	4207685.31	17.1917	11.4329	0.3166	0.0863	1.22E-06	4.55E-07	1.677E-06
607875.00	4207699.33	12.1567	14.6608	0.2239	0.1106	8.64E-07	5.84E-07	1.448E-06
607961.40	4207685.66	19.6855	9.8150	0.3625	0.0741	1.40E-06	3.91E-07	1.790E-06
607917.76	4207685.14	15.6837	12.0454	0.2888	0.0909	1.11E-06	4.80E-07	1.594E-06
607851.10	4207714.32	10.2223	16.3038	0.1883	0.1230	7.27E-07	6.49E-07	1.376E-06
607975.95	4207685.83	20.4247	8.9378	0.3761	0.0675	1.45E-06	3.56E-07	1.808E-06
607904.01	4207684.88	14.2152	12.4379	0.2618	0.0939	1.01E-06	4.95E-07	1.506E-06
607990.50	4207686.01	20.6672	8.1212	0.3806	0.0613	1.47E-06	3.23E-07	1.792E-06
607889.64	4207684.61	12.7344	12.6299	0.2345	0.0953	9.05E-07	5.03E-07	1.408E-06
608005.05	4207686.18	20.3642	7.3956	0.3750	0.0558	1.45E-06	2.94E-07	1.742E-06
607875.28	4207684.34	11.3604	12.6097	0.2092	0.0952	8.07E-07	5.02E-07	1.310E-06
607932.49	4207670.31	14.9693	9.9790	0.2757	0.0753	1.06E-06	3.97E-07	1.461E-06
607851.10	4207699.32	9.8163	14.0523	0.1808	0.1061	6.98E-07	5.60E-07	1.257E-06
607947.03	4207670.49	15.9108	9.3701	0.2930	0.0707	1.13E-06	3.73E-07	1.504E-06
607917.94	4207670.14	13.8888	10.4772	0.2558	0.0791	9.87E-07	4.17E-07	1.404E-06
607961.58	4207670.66	16.6595	8.6785	0.3068	0.0655	1.18E-06	3.46E-07	1.530E-06
607976.13	4207670.83	17.1169	7.9665	0.3152	0.0601	1.22E-06	3.17E-07	1.534E-06
607904.29	4207669.88	12.8000	10.7920	0.2357	0.0814	9.10E-07	4.30E-07	1.339E-06
607829.26	4207718.69	8.3849	15.4804	0.1544	0.1168	5.96E-07	6.16E-07	1.212E-06
607990.68	4207671.01	17.2068	7.2902	0.3169	0.0550	1.22E-06	2.90E-07	1.513E-06
607889.93	4207669.61	11.6496	10.9584	0.2145	0.0827	8.28E-07	4.36E-07	1.264E-06
608005.22	4207671.18	16.8874	6.6740	0.3110	0.0504	1.20E-06	2.66E-07	1.466E-06
607851.10	4207684.32	9.3430	12.2077	0.1721	0.0921	6.64E-07	4.86E-07	1.150E-06
607875.56	4207669.34	10.5384	10.9624	0.1941	0.0827	7.49E-07	4.37E-07	1.186E-06
607932.67	4207655.31	13.1002	8.7980	0.2413	0.0664	9.31E-07	3.50E-07	1.281E-06
607947.21	4207655.49	13.7601	8.2983	0.2534	0.0626	9.78E-07	3.30E-07	1.308E-06

Unmitigated 2021

Diesel Vehicle Concentrations

	X	Y	DPM (ug/m3)
Max	607888.80	4207729.60	3.5047E-04
Construction MIR	607888.8	4207729.6	5.7967E-02
Operational MIR	607888.80	4207729.60	3.5047E-04

X	Y	1 to 6 DPM (ug/m3)	7 to 15 DPM (ug/m3)	Wash/Entrance DPM (ug/m3)	Total DPM (ug/m3)
607888.80	4207729.60	1.1416E-05	3.3710E-04	1.9621E-06	3.5047E-04
607874.44	4207729.33	1.1083E-05	3.1078E-04	1.7788E-06	3.2365E-04
607889.08	4207714.60	1.0172E-05	2.8328E-04	1.7532E-06	2.9521E-04
607946.67	4207700.48	9.6109E-06	2.6821E-04	2.0392E-06	2.7986E-04
607932.13	4207700.31	9.5471E-06	2.6666E-04	1.9361E-06	2.7814E-04
607961.22	4207700.66	9.6802E-06	2.6652E-04	2.1209E-06	2.7832E-04
607917.58	4207700.14	9.4475E-06	2.6148E-04	1.8169E-06	2.7274E-04
607874.72	4207714.33	9.9518E-06	2.6472E-04	1.6025E-06	2.7628E-04
607975.77	4207700.83	9.7785E-06	2.6184E-04	2.1635E-06	2.7378E-04
607903.73	4207699.87	9.3286E-06	2.5346E-04	1.6958E-06	2.6449E-04
607990.32	4207701.01	9.9193E-06	2.5582E-04	2.1628E-06	2.6791E-04
607851.10	4207729.32	1.0521E-05	2.6379E-04	1.5096E-06	2.7582E-04
608004.87	4207701.18	1.0101E-05	2.4934E-04	2.1086E-06	2.6154E-04
607889.36	4207699.60	9.1834E-06	2.4247E-04	1.5702E-06	2.5322E-04
607946.85	4207685.49	8.7687E-06	2.3031E-04	1.7439E-06	2.4083E-04
607932.31	4207685.31	8.6968E-06	2.2894E-04	1.6772E-06	2.3931E-04
607875.00	4207699.33	9.0205E-06	2.2895E-04	1.4478E-06	2.3942E-04
607961.40	4207685.66	8.8400E-06	2.2932E-04	1.7900E-06	2.3995E-04
607917.76	4207685.14	8.6020E-06	2.2498E-04	1.5944E-06	2.3517E-04
607851.10	4207714.32	9.5515E-06	2.3044E-04	1.3758E-06	2.4137E-04
607975.95	4207685.83	8.9243E-06	2.2603E-04	1.8076E-06	2.3676E-04
607904.01	4207684.88	8.4976E-06	2.1897E-04	1.5056E-06	2.2897E-04
607990.50	4207686.01	9.0286E-06	2.2155E-04	1.7923E-06	2.3237E-04
607889.64	4207684.61	8.3731E-06	2.1062E-04	1.4080E-06	2.2041E-04
608005.05	4207686.18	9.1542E-06	2.1668E-04	1.7419E-06	2.2758E-04
607875.28	4207684.34	8.2371E-06	2.0042E-04	1.3096E-06	2.0997E-04
607932.49	4207670.31	7.9804E-06	1.9941E-04	1.4613E-06	2.0885E-04
607851.10	4207699.32	8.7169E-06	2.0315E-04	1.2573E-06	2.1312E-04
607947.03	4207670.49	8.0483E-06	2.0059E-04	1.5040E-06	2.1015E-04
607917.94	4207670.14	7.8991E-06	1.9638E-04	1.4043E-06	2.0568E-04
607961.58	4207670.66	8.1108E-06	1.9991E-04	1.5297E-06	2.0955E-04
607976.13	4207670.83	8.1792E-06	1.9764E-04	1.5338E-06	2.0735E-04
607904.29	4207669.88	7.8044E-06	1.9170E-04	1.3395E-06	2.0084E-04
607829.26	4207718.69	9.4165E-06	2.0325E-04	1.2124E-06	2.1388E-04
607990.68	4207671.01	8.2549E-06	1.9425E-04	1.5133E-06	2.0402E-04
607889.93	4207669.61	7.6935E-06	1.8518E-04	1.2644E-06	1.9414E-04
608005.22	4207671.18	8.3352E-06	1.9021E-04	1.4660E-06	2.0001E-04
607851.10	4207684.32	7.9882E-06	1.8046E-04	1.1502E-06	1.8960E-04
607875.56	4207669.34	7.5725E-06	1.7719E-04	1.1855E-06	1.8595E-04
607932.67	4207655.31	7.3624E-06	1.7572E-04	1.2814E-06	1.8436E-04
607947.21	4207655.49	7.4208E-06	1.7671E-04	1.3084E-06	1.8544E-04
607826.62	4207704.78	8.6400E-06	1.8078E-04	1.1080E-06	1.9053E-04
607961.76	4207655.66	7.4726E-06	1.7626E-04	1.3219E-06	1.8505E-04
607904.57	4207654.88	7.2042E-06	1.6954E-04	1.1944E-06	1.7793E-04
607976.31	4207655.84	7.5255E-06	1.7459E-04	1.3188E-06	1.8344E-04
607890.21	4207654.61	7.1085E-06	1.6439E-04	1.1371E-06	1.7263E-04
607990.86	4207656.01	7.5783E-06	1.7195E-04	1.2971E-06	1.8083E-04
607808.09	4207727.44	9.5334E-06	1.7854E-04	1.0778E-06	1.8915E-04
607851.10	4207669.32	7.3637E-06	1.6142E-04	1.0534E-06	1.6984E-04
608005.40	4207656.18	7.6307E-06	1.6873E-04	1.2562E-06	1.7762E-04
607813.39	4207710.25	8.7133E-06	1.6938E-04	1.0391E-06	1.7913E-04

2025 Operations

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Diesel Vehicle Emissions

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE7	**LHDT1**	10	0.050	0.1	403.2	0.25	1.720E-03	3.79E-06	1.991E-08	
	LHDT2	10	0.031	0.1	403.2	0.25	4.204E-04	9.26E-07	4.865E-09	
	MHDT	10	0.006	0.2	403.2	0.25	3.528E-04	7.77E-07	4.083E-09	
	HHDT	10	0.011	42.7	403.2	0.25	1.209E-01	2.66E-04	1.399E-06	**1.43E-06**
SLINE8	**LHDT1**	10	0.050	0.1	551.2	0.34	2.35E-03	5.18E-06	2.72E-08	
	LHDT2	10	0.031	0.1	551.2	0.34	5.75E-04	1.27E-06	6.65E-09	
	MHDT	10	0.006	0.2	551.2	0.34	4.82E-04	1.06E-06	5.58E-09	
	HHDT	10	0.011	42.7	551.2	0.34	1.65E-01	3.64E-04	1.91E-06	**1.95E-06**
SLINE13	**LHDT1**	10	0.050	0.1	210.9	0.13	9.00E-04	1.98E-06	1.04E-08	
	LHDT2	10	0.031	0.1	210.9	0.13	2.20E-04	4.84E-07	2.54E-09	
	MHDT	10	0.006	0.2	210.9	0.13	1.85E-04	4.06E-07	2.14E-09	
	HHDT	10	0.011	42.7	210.9	0.13	6.32E-02	1.39E-04	7.32E-07	**7.47E-07**
SLINE5	**LDA**	15	0.013	1	565.0	0.35	5.04E-03	1.11E-05	5.84E-08	
	LDT1	15	0.124	0	565.0	0.35	1.95E-04	4.31E-07	2.26E-09	
	LDT2	15	0.008	0	565.0	0.35	1.69E-04	3.71E-07	1.95E-09	
	MDV	15	0.007	0	565.0	0.35	9.21E-04	2.03E-06	1.07E-08	**7.33E-08**
SLINE6	**LDA**	15	0.013	1	192.0	0.12	1.714E-03	3.78E-06	1.984E-08	
	LDT1	15	0.124	0	192.0	0.12	6.642E-05	1.46E-07	7.688E-10	
	LDT2	15	0.008	0	192.0	0.12	5.731E-05	1.26E-07	6.633E-10	
	MDV	15	0.007	0	192.0	0.12	3.129E-04	6.89E-07	3.622E-09	**2.49E-08**

Diesel Vehicle Emissions

Diesel truck Idling Emissions Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor (grams/trip)	Emissions Idling Time (min)	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE9	**LHDT1**	0.001	15	0.1	9.15E-05	2.03E-06	1.06E-09	
	LHDT2	0.001	15	0.0	4.76E-05	1.05E-07	5.50E-10	
	MHDT	0.000	15	0.2	2.04E-05	4.50E-08	2.37E-10	
	HHDT	0.007	15	32.0	2.15E-01	4.73E-04	2.49E-06	**2.49E-06**
SLINE10	**LHDT1**	0.001	15	0.1	9.15E-05	2.02E-07	1.06E-09	
	LHDT2	0.001	15	0.0	4.76E-05	1.05E-07	5.50E-10	
	MHDT	0.000	15	0.2	2.04E-05	4.50E-08	2.37E-10	
	HHDT	0.007	15	32.0	2.15E-01	4.73E-04	2.49E-06	**2.49E-06**
SLINE11	**LHDT1**	0.001	15	0.1	9.15E-05	2.02E-07	1.06E-09	
	LHDT2	0.001	15	0.0	4.76E-05	1.05E-07	5.50E-10	
	MHDT	0.000	15	0.2	2.04E-05	4.50E-08	2.37E-10	
	HHDT	0.007	15	32.0	2.15E-01	4.73E-04	2.49E-06	**2.49E-06**
SLINE12	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	3.64E-05	8.03E-08	4.22E-10	
	MHDT	0.001	15	0.2	2.02E-04	4.46E-07	2.34E-09	
	HHDT	0.000	15	32.0	3.78E-03	8.33E-06	4.38E-08	**4.65E-08**
VOL1	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	3.64E-05	8.03E-08	4.22E-10	
	MHDT	0.001	15	0.2	2.02E-04	4.46E-07	2.34E-09	
	HHDT	0.000	15	32.0	3.78E-03	8.33E-06	4.38E-08	**4.65E-08**
VOL2	**LHDT1**	0.000	15	0.2	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.1	7.29E-05	1.61E-07	8.43E-10	
	MHDT	0.001	15	0.3	4.05E-04	8.92E-07	4.69E-09	
	HHDT	0.000	15	64.1	7.56E-03	1.67E-05	8.75E-08	**9.30E-08**

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Project Operations 24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Segment ID: SLINE1
Travel Distance: 744.8 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.002	0.46	0.00	1.28E-09
LHDT2-DSL	0	0.002	0.46	0.00	3.69E-10
MHDT-DSL	0	0.001	0.46	0.00	1.36E-09
HHDT-DSL	32	0.001	0.46	0.02	2.37E-07
Total	32				**2.40E-07**

Segment ID: SLINE2
Travel Distance: 489.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.002	0.30	0.00	8.41E-10
LHDT2-DSL	0	0.002	0.30	0.00	2.43E-10
MHDT-DSL	0	0.001	0.30	0.00	8.97E-10
HHDT-DSL	32	0.001	0.30	0.01	1.56E-07
Total	32				**1.58E-07**

Segment ID: SLINE3
Travel Distance: 772.5 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.48	0.03	3.11E-07
LHDT2-DSL	0	0.002	0.48	0.00	3.83E-10
MHDT-DSL	0	0.001	0.48	0.00	1.41E-09
HHDT-DSL	32	0.001	0.48	0.02	2.46E-07
Total	32				**5.58E-07**

Segment ID: SLINE4
Travel Distance: 497.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.48	0.03	3.11E-07
LHDT2-DSL	0	0.002	0.48	0.00	3.83E-10
MHDT-DSL	0	0.001	0.48	0.00	1.41E-09
HHDT-DSL	32	0.001	0.48	0.02	2.46E-07
Total	32				**5.58E-07**

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	2.2	0.0	0.1	0.8
SLINE1	0.6	0.0	0.0	0.2
SLINE2	0.6	0.0	0.0	0.2
SLINE3	0.6	0.0	0.0	0.2
SLINE4	0.6	0.0	0.0	0.2

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	744.8	0.46	0.002	3.98E-04	24	4.61E-09
LDT1-DSL	744.8	0.46	0.002	1.85E-06	24	2.14E-11
LDT2-DSL	744.8	0.46	0.001	2.07E-05	24	2.40E-10
MDT-DSL	744.8	0.46	0.001	8.01E-05	24	9.27E-10
Total						**5.79E-09**

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	489.9	0.30	0.002	2.62E-04	24	3.03E-09
LDT1-DSL	489.9	0.30	0.002	1.22E-06	24	1.41E-11
LDT2-DSL	489.9	0.30	0.001	1.36E-05	24	1.58E-10
MDT-DSL	489.9	0.30	0.001	5.27E-05	24	6.10E-10
Total						**3.81E-09**

Offsite Segment ID	SLINE3	Emission Factor @ 35 mph for LDA, LDT, MDT				
	Segment Length (m)	**Segment Length (mi)**	**Emission Factor (g/mi)**	**Emissions (g/day)**	**Operations (hours/day)**	**Emissions (g/sec)**
LDA-DSL	772.5	0.48	0.002	4.13E-04	24	4.78E-09
LDT1-DSL	772.5	0.48	0.002	1.92E-06	24	2.22E-11
LDT2-DSL	772.5	0.48	0.001	2.15E-05	24	2.49E-10
MDT-DSL	772.5	0.48	0.001	8.31E-05	24	9.62E-10
Total						**6.01E-09**

Offsite Segment ID	SLINE4	Emission Factor @ 35 mph for LDA, LDT, MDT				
	Segment Length (m)	**Segment Length (mi)**	**Emission Factor (g/mi)**	**Emissions (g/day)**	**Operations (hours/day)**	**Emissions (g/sec)**
LDA-DSL	497.9	0.31	0.002	2.66E-04	24	3.08E-09
LDT1-DSL	497.9	0.31	0.002	1.24E-06	24	1.43E-11
LDT2-DSL	497.9	0.31	0.001	1.39E-05	24	1.60E-10
MDT-DSL	497.9	0.31	0.001	5.36E-05	24	6.20E-10
Total						**3.87E-09**

DPM 2025

EMFAC Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	**15 mph**	**25 mph**	**35 mph**
LDA	GAS	0.0069	0.0046	0.0024	0.0015
LDT1	GAS	0.0078	0.0052	0.0028	0.0018
LDT2	GAS	0.0067	0.0045	0.0023	0.0015
MDV	GAS	0.0067	0.0045	0.0023	0.0015
LHDT1	GAS	0.0048	0.0032	0.0017	0.0011
LHDT2	GAS	0.0040	0.0026	0.0014	0.0009
MHDT	GAS	0.0043	0.0028	0.0015	0.0009
HHDT	GAS	0.0040	0.0027	0.0014	0.0009
LDA	DSL	0.0167	0.0128	0.0083	0.0063
LDT1	DSL	0.1693	0.1241	0.0760	0.0557
LDT2	DSL	0.0094	0.0080	0.0057	0.0045
MDV	DSL	0.0081	0.0067	0.0046	0.0036
LHDT1	DSL	0.0504	0.0385	0.0248	0.0186
LHDT2	DSL	0.0309	0.0248	0.0168	0.0130
MHDT	DSL	0.0061	0.0051	0.0040	0.0034
HHDT	DSL	0.0113	0.0093	0.0073	0.0063

Idling Emissions (Emission Factors from CalEEMod)
in units of grams/trip

Vehicle Class	**Fuel**	**Vehicle Speed (mph)**	**DPM (grams/trip)**
LHDT1	DSL	Idle	0.000895
LHDT2	DSL	Idle	0.001168
MHDT	DSL	Idle	0.000118
HHDT	DSL	Idle	0.006705

Unmitigated 2025
Diesel Vehicle Concentrations

	X	Y	DPM (ug/m3)
Max	607888.80	4207729.60	2.1550E-04
Construction MIR	607888.8	4207729.6	5.7967E-02
Operational MIR	607888.80	4207729.60	2.1550E-04

X	Y	1 to 6 DPM (ug/m3)	7 to 15 DPM (ug/m3)	Wash/ Entrance DPM (ug/m3)	Total DPM (ug/m3)
607888.80	4207729.60	1.0382E-05	2.0439E-04	7.2613E-07	2.1550E-04
607874.44	4207729.33	1.0169E-05	1.8654E-04	6.5826E-07	1.9737E-04
607889.08	4207714.60	9.3298E-06	1.7406E-04	6.4881E-07	1.8404E-04
607946.67	4207700.48	8.7780E-06	1.6946E-04	7.5466E-07	1.7900E-04
607932.13	4207700.31	8.7333E-06	1.6803E-04	7.1651E-07	1.7748E-04
607961.22	4207700.66	8.8176E-06	1.6834E-04	7.8489E-07	1.7794E-04
607917.58	4207700.14	8.6574E-06	1.6403E-04	6.7237E-07	1.7336E-04
607874.72	4207714.33	9.1887E-06	1.6139E-04	5.9302E-07	1.7117E-04
607975.77	4207700.83	8.8643E-06	1.6469E-04	8.0066E-07	1.7435E-04
607903.73	4207699.87	8.5714E-06	1.5812E-04	6.2757E-07	1.6732E-04
607990.32	4207701.01	8.9288E-06	1.5973E-04	8.0039E-07	1.6946E-04
607851.10	4207729.32	9.8127E-06	1.5664E-04	5.5864E-07	1.6701E-04
608004.87	4207701.18	9.0111E-06	1.5437E-04	7.8031E-07	1.6417E-04
607889.36	4207699.60	8.4729E-06	1.5032E-04	5.8107E-07	1.5937E-04
607946.85	4207685.49	8.0267E-06	1.4575E-04	6.4535E-07	1.5443E-04
607932.31	4207685.31	7.9811E-06	1.4459E-04	6.2067E-07	1.5319E-04
607875.00	4207699.33	8.3676E-06	1.4110E-04	5.3579E-07	1.5000E-04
607961.40	4207685.66	8.0649E-06	1.4511E-04	6.6242E-07	1.5383E-04
607917.76	4207685.14	7.9143E-06	1.4159E-04	5.9003E-07	1.5010E-04
607851.10	4207714.32	8.9308E-06	1.3910E-04	5.0913E-07	1.4854E-04
607975.95	4207685.83	8.1026E-06	1.4263E-04	6.6894E-07	1.5140E-04
607904.01	4207684.88	7.8416E-06	1.3724E-04	5.5718E-07	1.4564E-04
607990.50	4207686.01	8.1455E-06	1.3908E-04	6.6328E-07	1.4789E-04
607889.64	4207684.61	7.7570E-06	1.3139E-04	5.2106E-07	1.3967E-04
608005.05	4207686.18	8.1966E-06	1.3521E-04	6.4462E-07	1.4405E-04
607875.28	4207684.34	7.6664E-06	1.2446E-04	4.8463E-07	1.3262E-04
607932.49	4207670.31	7.3405E-06	1.2620E-04	5.4078E-07	1.3408E-04
607851.10	4207699.32	8.1694E-06	1.2417E-04	4.6527E-07	1.3281E-04
607947.03	4207670.49	7.3808E-06	1.2719E-04	5.5658E-07	1.3513E-04
607917.94	4207670.14	7.2877E-06	1.2392E-04	5.1971E-07	1.3173E-04
607961.58	4207670.66	7.4116E-06	1.2680E-04	5.6608E-07	1.3478E-04
607976.13	4207670.83	7.4399E-06	1.2512E-04	5.6762E-07	1.3313E-04
607904.29	4207669.88	7.2232E-06	1.2057E-04	4.9571E-07	1.2829E-04
607829.26	4207718.69	8.9125E-06	1.2168E-04	4.4867E-07	1.3104E-04
607990.68	4207671.01	7.4666E-06	1.2254E-04	5.6002E-07	1.3056E-04
607889.93	4207669.61	7.1477E-06	1.1605E-04	4.6790E-07	1.2367E-04
608005.22	4207671.18	7.4913E-06	1.1951E-04	5.4253E-07	1.2754E-04
607851.10	4207684.32	7.4996E-06	1.1133E-04	4.2564E-07	1.1925E-04
607875.56	4207669.34	7.0651E-06	1.1066E-04	4.3873E-07	1.1817E-04
607932.67	4207655.31	6.7846E-06	1.1144E-04	4.7422E-07	1.1870E-04
607947.21	4207655.49	6.8168E-06	1.1228E-04	4.8421E-07	1.1958E-04
607826.62	4207704.78	8.1881E-06	1.0955E-04	4.1005E-07	1.1815E-04
607961.76	4207655.66	6.8401E-06	1.1207E-04	4.8920E-07	1.1940E-04
607904.57	4207654.88	6.6818E-06	1.0695E-04	4.4203E-07	1.1407E-04

2030 Operations

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Diesel Vehicle Emissions

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE7	**LHDT1**	10	0.033	0.1	403.2	0.25	1.142E-03	2.52E-06	1.322E-08	
	LHDT2	10	0.021	0.1	403.2	0.25	2.870E-04	6.32E-07	3.322E-09	
	MHDT	10	0.006	0.2	403.2	0.25	3.269E-04	7.20E-07	3.784E-09	
	HHDT	10	0.010	42.7	403.2	0.25	1.073E-01	2.36E-04	1.241E-06	**1.26E-06**
SLINE8	**LHDT1**	10	0.033	0.1	551.2	0.34	1.56E-03	3.44E-06	1.81E-08	
	LHDT2	10	0.021	0.1	551.2	0.34	3.92E-04	8.64E-07	4.54E-09	
	MHDT	10	0.006	0.2	551.2	0.34	4.47E-04	9.84E-07	5.17E-09	
	HHDT	10	0.010	42.7	551.2	0.34	1.47E-01	3.23E-04	1.70E-06	**1.72E-06**
SLINE13	**LHDT1**	10	0.033	0.1	210.9	0.13	5.97E-04	1.32E-06	6.91E-09	
	LHDT2	10	0.021	0.1	210.9	0.13	1.50E-04	3.31E-07	1.74E-09	
	MHDT	10	0.006	0.2	210.9	0.13	1.71E-04	3.77E-07	1.98E-09	
	HHDT	10	0.010	42.7	210.9	0.13	5.61E-02	1.24E-04	6.49E-07	**6.60E-07**
SLINE5	**LDA**	15	0.004	1	565.0	0.35	1.41E-03	3.12E-06	1.64E-08	
	LDT1	15	0.019	0	565.0	0.35	2.95E-05	6.49E-08	3.41E-10	
	LDT2	15	0.007	0	565.0	0.35	1.52E-04	3.36E-07	1.76E-09	
	MDV	15	0.003	0	565.0	0.35	4.73E-04	1.04E-06	5.47E-09	**2.39E-08**
SLINE6	**LDA**	15	0.004	1	192.0	0.12	4.807E-04	1.06E-06	5.564E-09	
	LDT1	15	0.019	0	192.0	0.12	1.001E-05	2.20E-08	1.158E-10	
	LDT2	15	0.007	0	192.0	0.12	5.181E-05	1.14E-07	5.997E-10	
	MDV	15	0.003	0	192.0	0.12	1.606E-04	3.54E-07	1.859E-09	**8.14E-09**

Diesel Vehicle Emissions

Diesel truck Idling Emissions Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor (grams/trip)	Emissions Idling Time (min)	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE9	**LHDT1**	0.001	15	0.1	8.31E-05	1.85E-06	9.62E-10	
	LHDT2	0.001	15	0.0	4.15E-05	9.14E-08	4.80E-10	
	MHDT	0.000	15	0.2	1.06E-05	2.33E-08	1.22E-10	
	HHDT	0.003	15	32.0	1.12E-01	2.47E-04	1.30E-06	**1.30E-06**
SLINE10	**LHDT1**	0.001	15	0.1	8.31E-05	1.83E-07	9.62E-10	
	LHDT2	0.001	15	0.0	4.15E-05	9.14E-08	4.80E-10	
	MHDT	0.000	15	0.2	1.06E-05	2.33E-08	1.22E-10	
	HHDT	0.003	15	32.0	1.12E-01	2.47E-04	1.30E-06	**1.30E-06**
SLINE11	**LHDT1**	0.001	15	0.1	8.31E-05	1.83E-07	9.62E-10	
	LHDT2	0.001	15	0.0	4.15E-05	9.14E-08	4.80E-10	
	MHDT	0.000	15	0.2	1.06E-05	2.33E-08	1.22E-10	
	HHDT	0.003	15	32.0	1.12E-01	2.47E-04	1.30E-06	**1.30E-06**
SLINE12	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	3.31E-05	7.29E-08	3.83E-10	
	MHDT	0.001	15	0.2	1.77E-04	3.89E-07	2.04E-09	
	HHDT	0.000	15	32.0	1.95E-03	4.31E-06	2.26E-08	**2.50E-08**
VOL1	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	3.31E-05	7.29E-08	3.83E-10	
	MHDT	0.001	15	0.2	1.77E-04	3.89E-07	2.04E-09	
	HHDT	0.000	15	32.0	1.95E-03	4.31E-06	2.26E-08	**2.50E-08**
VOL2	**LHDT1**	0.000	15	0.2	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.1	6.62E-05	1.46E-07	7.66E-10	
	MHDT	0.001	15	0.3	3.53E-04	7.78E-07	4.09E-09	
	HHDT	0.000	15	64.1	3.91E-03	8.61E-06	4.52E-08	**5.01E-08**

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Project Operations 24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Segment ID: SLINE1
Travel Distance: 744.8 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.002	0.46	0.00	1.02E-09
LHDT2-DSL	0	0.002	0.46	0.00	3.51E-10
MHDT-DSL	0	0.001	0.46	0.00	1.39E-09
HHDT-DSL	32	0.001	0.46	0.02	2.55E-07
Total	32				**2.57E-07**

Segment ID: SLINE2
Travel Distance: 489.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.002	0.30	0.00	6.73E-10
LHDT2-DSL	0	0.002	0.30	0.00	2.31E-10
MHDT-DSL	0	0.001	0.30	0.00	9.15E-10
HHDT-DSL	32	0.001	0.30	0.01	1.68E-07
Total	32				**1.69E-07**

Segment ID: SLINE3
Travel Distance: 772.5 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.48	0.02	2.49E-07
LHDT2-DSL	0	0.002	0.48	0.00	3.64E-10
MHDT-DSL	0	0.001	0.48	0.00	1.44E-09
HHDT-DSL	32	0.001	0.48	0.02	2.64E-07
Total	32				**5.15E-07**

Segment ID: SLINE4
Travel Distance: 497.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.48	0.02	2.49E-07
LHDT2-DSL	0	0.002	0.48	0.00	3.64E-10
MHDT-DSL	0	0.001	0.48	0.00	1.44E-09
HHDT-DSL	32	0.001	0.48	0.02	2.64E-07
Total	32				**5.15E-07**

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	2.2	0.0	0.1	0.8
SLINE1	0.6	0.0	0.0	0.2
SLINE2	0.6	0.0	0.0	0.2
SLINE3	0.6	0.0	0.0	0.2
SLINE4	0.6	0.0	0.0	0.2

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	744.8	0.46	0.001	3.08E-04	24	3.56E-09
LDT1-DSL	744.8	0.46	0.001	1.33E-06	24	1.54E-11
LDT2-DSL	744.8	0.46	0.001	1.59E-05	24	1.84E-10
MDT-DSL	744.8	0.46	0.001	8.49E-05	24	9.83E-10
Total						**4.75E-09**

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	489.9	0.30	0.001	2.02E-04	24	2.34E-09
LDT1-DSL	489.9	0.30	0.001	8.73E-07	24	1.01E-11
LDT2-DSL	489.9	0.30	0.001	1.05E-05	24	1.21E-10
MDT-DSL	489.9	0.30	0.001	5.59E-05	24	6.46E-10
Total						**3.12E-09**

Offsite Segment ID	SLINE3	Emission Factor @ 35 mph for LDA, LDT, MDT			
	Segment Length (m)	**Segment Length (mi)**	**Emission Factor (g/mi)**	**Emissions (g/day)**	**Operations (hours/day)**	**Emissions (g/sec)**
LDA-DSL	772.5	0.48	0.001	3.19E-04	24	3.70E-09
LDT1-DSL	772.5	0.48	0.001	1.38E-06	24	1.59E-11
LDT2-DSL	772.5	0.48	0.001	1.65E-05	24	1.91E-10
MDT-DSL	772.5	0.48	0.001	8.81E-05	24	1.02E-09
Total						**4.92E-09**

Offsite Segment ID	SLINE4	Emission Factor @ 35 mph for LDA, LDT, MDT			
	Segment Length (m)	**Segment Length (mi)**	**Emission Factor (g/mi)**	**Emissions (g/day)**	**Operations (hours/day)**	**Emissions (g/sec)**
LDA-DSL	497.9	0.31	0.001	2.06E-04	24	2.38E-09
LDT1-DSL	497.9	0.31	0.001	8.87E-07	24	1.03E-11
LDT2-DSL	497.9	0.31	0.001	1.07E-05	24	1.23E-10
MDT-DSL	497.9	0.31	0.001	5.68E-05	24	6.57E-10
Total						**3.17E-09**

DPM 2030

EMFAC Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	**15 mph**	**25 mph**	**35 mph**
LDA	GAS	0.0054	0.0036	0.0019	0.0012
LDT1	GAS	0.0057	0.0038	0.0020	0.0013
LDT2	GAS	0.0052	0.0034	0.0018	0.0011
MDV	GAS	0.0054	0.0036	0.0019	0.0012
LHDT1	GAS	0.0047	0.0031	0.0016	0.0010
LHDT2	GAS	0.0042	0.0028	0.0015	0.0009
MHDT	GAS	0.0044	0.0029	0.0015	0.0010
HHDT	GAS	0.0043	0.0029	0.0015	0.0010
LDA	DSL	0.0043	0.0036	0.0025	0.0020
LDT1	DSL	0.0242	0.0187	0.0122	0.0092
LDT2	DSL	0.0084	0.0072	0.0052	0.0042
MDV	DSL	0.0040	0.0034	0.0025	0.0020
LHDT1	DSL	0.0334	0.0263	0.0174	0.0133
LHDT2	DSL	0.0211	0.0177	0.0125	0.0098
MHDT	DSL	0.0056	0.0048	0.0038	0.0033
HHDT	DSL	0.0100	0.0085	0.0068	0.0058

Idling Emissions (Emission Factors from CalEEMod)
in units of grams/trip

Vehicle Class	**Fuel**	**Vehicle Speed (mph)**	**DPM (grams/trip)**
LHDT1	DSL	Idle	0.000813
LHDT2	DSL	Idle	0.001019
MHDT	DSL	Idle	0.000061
HHDT	DSL	Idle	0.003497

Unmitigated 2030
Diesel Vehicle Concentrations

	X	Y	DPM (ug/m3)
Max	607888.80	4207729.60	1.4770E-04
Construction MIR	607888.8	4207729.6	5.7967E-02
Operational MIR	607888.80	4207729.60	1.4770E-04

X	Y	1 to 6 DPM (ug/m3)	7 to 15 DPM (ug/m3)	Wash/ Entrance DPM (ug/m3)	Total DPM (ug/m3)
607888.80	4207729.60	8.9353E-06	1.3812E-04	6.4149E-07	1.4770E-04
607874.44	4207729.33	8.8088E-06	1.2667E-04	5.8154E-07	1.3606E-04
607889.08	4207714.60	8.0920E-06	1.1687E-04	5.7319E-07	1.2554E-04
607946.67	4207700.48	7.6196E-06	1.1229E-04	6.6670E-07	1.2058E-04
607932.13	4207700.31	7.5836E-06	1.1148E-04	6.3299E-07	1.1970E-04
607961.22	4207700.66	7.6437E-06	1.1156E-04	6.9340E-07	1.1990E-04
607917.58	4207700.14	7.5216E-06	1.0906E-04	5.9400E-07	1.1717E-04
607874.72	4207714.33	8.0056E-06	1.0877E-04	5.2390E-07	1.1730E-04
607975.77	4207700.83	7.6601E-06	1.0936E-04	7.0733E-07	1.1773E-04
607903.73	4207699.87	7.4565E-06	1.0541E-04	5.5442E-07	1.1342E-04
607990.32	4207701.01	7.6763E-06	1.0644E-04	7.0710E-07	1.1482E-04
607851.10	4207729.32	8.6006E-06	1.0692E-04	4.9353E-07	1.1602E-04
608004.87	4207701.18	7.6938E-06	1.0328E-04	6.8936E-07	1.1167E-04
607889.36	4207699.60	7.3889E-06	1.0050E-04	5.1334E-07	1.0841E-04
607946.85	4207685.49	6.9836E-06	9.6508E-05	5.7013E-07	1.0406E-04
607932.31	4207685.31	6.9521E-06	9.5828E-05	5.4832E-07	1.0333E-04
607875.00	4207699.33	7.3221E-06	9.4606E-05	4.7334E-07	1.0240E-04
607961.40	4207685.66	7.0035E-06	9.6086E-05	5.8521E-07	1.0367E-04
607917.76	4207685.14	6.9022E-06	9.3996E-05	5.2125E-07	1.0142E-04
607851.10	4207714.32	7.8481E-06	9.4200E-05	4.4978E-07	1.0250E-04
607975.95	4207685.83	7.0142E-06	9.4570E-05	5.9097E-07	1.0217E-04
607904.01	4207684.88	6.8494E-06	9.1286E-05	4.9224E-07	9.8627E-05
607990.50	4207686.01	7.0198E-06	9.2441E-05	5.8597E-07	1.0005E-04
607889.64	4207684.61	6.7908E-06	8.7591E-05	4.6033E-07	9.4843E-05
608005.05	4207686.18	7.0244E-06	9.0126E-05	5.6948E-07	9.7720E-05
607875.28	4207684.34	6.7304E-06	8.3151E-05	4.2814E-07	9.0309E-05
607932.49	4207670.31	6.4093E-06	8.3561E-05	4.7775E-07	9.0448E-05
607851.10	4207699.32	7.1967E-06	8.3586E-05	4.1104E-07	9.1194E-05
607947.03	4207670.49	6.4343E-06	8.4141E-05	4.9170E-07	9.1067E-05
607917.94	4207670.14	6.3730E-06	8.2162E-05	4.5913E-07	8.8995E-05
607961.58	4207670.66	6.4479E-06	8.3871E-05	5.0010E-07	9.0819E-05
607976.13	4207670.83	6.4535E-06	8.2835E-05	5.0146E-07	8.9790E-05
607904.29	4207669.88	6.3276E-06	8.0066E-05	4.3793E-07	8.6832E-05
607829.26	4207718.69	7.8951E-06	8.2731E-05	3.9637E-07	9.1022E-05
607990.68	4207671.01	6.4519E-06	8.1258E-05	4.9474E-07	8.8205E-05
607889.93	4207669.61	6.2752E-06	7.7197E-05	4.1336E-07	8.3886E-05
608005.22	4207671.18	6.4441E-06	7.9402E-05	4.7930E-07	8.6325E-05
607851.10	4207684.32	6.6200E-06	7.4610E-05	3.7603E-07	8.1606E-05
607875.56	4207669.34	6.2181E-06	7.3731E-05	3.8759E-07	8.0337E-05
607932.67	4207655.31	5.9356E-06	7.3715E-05	4.1895E-07	8.0070E-05
607947.21	4207655.49	5.9536E-06	7.4204E-05	4.2777E-07	8.0585E-05

2040 Operations

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Diesel Vehicle Emissions

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE7	**LHDT1**	10	0.016	0.1	403.2	0.25	5.588E-04	1.23E-06	6.467E-09	
	LHDT2	10	0.014	0.1	403.2	0.25	1.947E-04	4.29E-07	2.254E-09	
	MHDT	10	0.005	0.2	403.2	0.25	2.927E-04	6.45E-07	3.388E-09	
	HHDT	10	0.009	42.7	403.2	0.25	9.685E-02	2.13E-04	1.121E-06	**1.13E-06**
SLINE8	**LHDT1**	10	0.016	0.1	551.2	0.34	7.64E-04	1.68E-06	8.84E-09	
	LHDT2	10	0.014	0.1	551.2	0.34	2.66E-04	5.86E-07	3.08E-09	
	MHDT	10	0.005	0.2	551.2	0.34	4.00E-04	8.81E-07	4.63E-09	
	HHDT	10	0.009	42.7	551.2	0.34	1.32E-01	2.92E-04	1.53E-06	**1.55E-06**
SLINE13	**LHDT1**	10	0.016	0.1	210.9	0.13	2.92E-04	6.44E-07	3.38E-09	
	LHDT2	10	0.014	0.1	210.9	0.13	1.02E-04	2.24E-07	1.18E-09	
	MHDT	10	0.005	0.2	210.9	0.13	1.53E-04	3.37E-07	1.77E-09	
	HHDT	10	0.009	42.7	210.9	0.13	5.07E-02	1.12E-04	5.86E-07	**5.93E-07**
SLINE5	**LDA**	15	0.001	1	565.0	0.35	5.51E-04	1.21E-06	6.38E-09	
	LDT1	15	0.008	0	565.0	0.35	1.20E-05	2.65E-08	1.39E-10	
	LDT2	15	0.007	0	565.0	0.35	1.48E-04	3.25E-07	1.71E-09	
	MDV	15	0.002	0	565.0	0.35	2.41E-04	5.31E-07	2.79E-09	**1.10E-08**
SLINE6	**LDA**	15	0.001	1	192.0	0.12	1.873E-04	4.13E-07	2.168E-09	
	LDT1	15	0.008	0	192.0	0.12	4.084E-06	9.00E-09	4.727E-11	
	LDT2	15	0.007	0	192.0	0.12	5.021E-05	1.11E-07	5.812E-10	
	MDV	15	0.002	0	192.0	0.12	8.199E-05	1.81E-07	9.489E-10	**3.75E-09**

Diesel Vehicle Emissions

Diesel truck Idling Emissions Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor (grams/trip)	Emissions Idling Time (min)	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE9	**LHDT1**	0.001	15	0.1	6.63E-05	1.47E-06	7.67E-10	
	LHDT2	0.001	15	0.0	3.39E-05	7.46E-08	3.92E-10	
	MHDT	0.000	15	0.2	4.85E-06	1.07E-08	5.62E-11	
	HHDT	0.002	15	32.0	5.27E-02	1.16E-04	6.10E-07	**6.11E-07**
SLINE10	**LHDT1**	0.001	15	0.1	6.63E-05	1.46E-07	7.67E-10	
	LHDT2	0.001	15	0.0	3.39E-05	7.46E-08	3.92E-10	
	MHDT	0.000	15	0.2	4.85E-06	1.07E-08	5.62E-11	
	HHDT	0.002	15	32.0	5.27E-02	1.16E-04	6.10E-07	**6.11E-07**
SLINE11	**LHDT1**	0.001	15	0.1	6.63E-05	1.46E-07	7.67E-10	
	LHDT2	0.001	15	0.0	3.39E-05	7.46E-08	3.92E-10	
	MHDT	0.000	15	0.2	4.85E-06	1.07E-08	5.62E-11	
	HHDT	0.002	15	32.0	5.27E-02	1.16E-04	6.10E-07	**6.11E-07**
SLINE12	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	2.64E-05	5.81E-08	3.05E-10	
	MHDT	0.001	15	0.2	1.44E-04	3.18E-07	1.67E-09	
	HHDT	0.000	15	32.0	8.97E-04	1.98E-06	1.04E-08	**1.24E-08**
VOL1	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	2.64E-05	5.81E-08	3.05E-10	
	MHDT	0.001	15	0.2	1.44E-04	3.18E-07	1.67E-09	
	HHDT	0.000	15	32.0	8.97E-04	1.98E-06	1.04E-08	**1.24E-08**
VOL2	**LHDT1**	0.000	15	0.2	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.1	5.28E-05	1.16E-07	6.11E-10	
	MHDT	0.001	15	0.3	2.88E-04	6.35E-07	3.34E-09	
	HHDT	0.000	15	64.1	1.79E-03	3.95E-06	2.08E-08	**2.47E-08**

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Project Operations 24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Segment ID: SLINE1
Travel Distance: 744.8 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.001	0.46	0.00	6.25E-10
LHDT2-DSL	0	0.001	0.46	0.00	3.24E-10
MHDT-DSL	0	0.002	0.46	0.00	1.43E-09
HHDT-DSL	32	0.002	0.46	0.02	2.65E-07
Total	32				**2.68E-07**

Segment ID: SLINE2
Travel Distance: 489.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.001	0.30	0.00	4.11E-10
LHDT2-DSL	0	0.001	0.30	0.00	2.13E-10
MHDT-DSL	0	0.002	0.30	0.00	9.41E-10
HHDT-DSL	32	0.002	0.30	0.02	1.74E-07
Total	32				**1.76E-07**

Segment ID: SLINE3
Travel Distance: 772.5 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.001	0.48	0.01	1.52E-07
LHDT2-DSL	0	0.001	0.48	0.00	3.36E-10
MHDT-DSL	0	0.002	0.48	0.00	1.48E-09
HHDT-DSL	32	0.002	0.48	0.02	2.75E-07
Total	32				**4.29E-07**

Segment ID: SLINE4
Travel Distance: 497.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.001	0.48	0.01	1.52E-07
LHDT2-DSL	0	0.001	0.48	0.00	3.36E-10
MHDT-DSL	0	0.002	0.48	0.00	1.48E-09
HHDT-DSL	32	0.002	0.48	0.02	2.75E-07
Total	32				**4.29E-07**

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	2.2	0.0	0.1	0.8
SLINE1	0.6	0.0	0.0	0.2
SLINE2	0.6	0.0	0.0	0.2
SLINE3	0.6	0.0	0.0	0.2
SLINE4	0.6	0.0	0.0	0.2

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	744.8	0.46	0.001	1.73E-04	24	2.00E-09
LDT1-DSL	744.8	0.46	0.001	7.18E-07	24	8.31E-12
LDT2-DSL	744.8	0.46	0.001	9.19E-06	24	1.06E-10
MDT-DSL	744.8	0.46	0.001	8.96E-05	24	1.04E-09
Total						**3.15E-09**

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	489.9	0.30	0.001	1.14E-04	24	1.31E-09
LDT1-DSL	489.9	0.30	0.001	4.72E-07	24	5.47E-12
LDT2-DSL	489.9	0.30	0.001	6.04E-06	24	7.00E-11
MDT-DSL	489.9	0.30	0.001	5.89E-05	24	6.82E-10
Total						**2.07E-09**

Offsite Segment ID SLINE3 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	772.5	0.48	0.001	1.79E-04	24	2.07E-09
LDT1-DSL	772.5	0.48	0.001	7.45E-07	24	8.62E-12
LDT2-DSL	772.5	0.48	0.001	9.53E-06	24	1.10E-10
MDT-DSL	772.5	0.48	0.001	9.29E-05	24	1.08E-09
Total						**3.27E-09**

Offsite Segment ID SLINE4 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	497.9	0.31	0.001	1.15E-04	24	1.34E-09
LDT1-DSL	497.9	0.31	0.001	4.80E-07	24	5.56E-12
LDT2-DSL	497.9	0.31	0.001	6.14E-06	24	7.11E-11
MDT-DSL	497.9	0.31	0.001	5.99E-05	24	6.93E-10
Total						**2.11E-09**

DPM 2040

EMFAC Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	**15 mph**	**25 mph**	**35 mph**
LDA	GAS	0.0030	0.0020	0.0010	0.0007
LDT1	GAS	0.0031	0.0021	0.0011	0.0007
LDT2	GAS	0.0030	0.0020	0.0010	0.0007
MDV	GAS	0.0033	0.0022	0.0011	0.0007
LHDT1	GAS	0.0043	0.0029	0.0015	0.0010
LHDT2	GAS	0.0045	0.0030	0.0015	0.0010
MHDT	GAS	0.0045	0.0030	0.0015	0.0010
HHDT	GAS	0.0045	0.0030	0.0015	0.0010
LDA	DSL	0.0016	0.0014	0.0010	0.0008
LDT1	DSL	0.0089	0.0076	0.0055	0.0044
LDT2	DSL	0.0080	0.0070	0.0051	0.0041
MDV	DSL	0.0020	0.0017	0.0013	0.0010
LHDT1	DSL	0.0164	0.0136	0.0095	0.0075
LHDT2	DSL	0.0143	0.0124	0.0091	0.0072
MHDT	DSL	0.0051	0.0043	0.0035	0.0030
HHDT	DSL	0.0091	0.0079	0.0064	0.0055

Idling Emissions (Emission Factors from CalEEMod)
in units of grams/trip

Vehicle Class	**Fuel**	**Vehicle Speed (mph)**	**DPM (grams/trip)**
LHDT1	DSL	Idle	0.000648
LHDT2	DSL	Idle	0.000832
MHDT	DSL	Idle	0.000028
HHDT	DSL	Idle	0.001645

Unmitigated 2040
Diesel Vehicle Concentrations

	X	Y	DPM (ug/m3)
Max	607888.80	4207729.60	1.0602E-04
Construction MIR	607888.80	4207729.60	5.7967E-02
Operational MIR	607888.80	4207729.60	1.0602E-04

X	Y	1 to 6 DPM (ug/m3)	7 to 15 DPM (ug/m3)	Wash/Entrance DPM (ug/m3)	Total DPM (ug/m3)
607888.80	4207729.60	7.5778E-06	9.7863E-05	5.7606E-07	1.0602E-04
607874.44	4207729.33	7.4686E-06	9.0250E-05	5.2222E-07	9.8241E-05
607889.08	4207714.60	6.8842E-06	8.2209E-05	5.1472E-07	8.9608E-05
607946.67	4207700.48	6.5370E-06	7.7770E-05	5.9869E-07	8.4906E-05
607932.13	4207700.31	6.4952E-06	7.7326E-05	5.6843E-07	8.4390E-05
607961.22	4207700.66	6.5666E-06	7.7282E-05	6.2268E-07	8.4471E-05
607917.58	4207700.14	6.4316E-06	7.5835E-05	5.3341E-07	8.2800E-05
607874.72	4207714.33	6.8058E-06	7.6840E-05	4.7047E-07	8.4116E-05
607975.77	4207700.83	6.5865E-06	7.5935E-05	6.3519E-07	8.3157E-05
607903.73	4207699.87	6.3669E-06	7.3522E-05	4.9787E-07	8.0387E-05
607990.32	4207701.01	6.6025E-06	7.4207E-05	6.3498E-07	8.1445E-05
607851.10	4207729.32	7.2920E-06	7.6626E-05	4.4319E-07	8.4361E-05
608004.87	4207701.18	6.6163E-06	7.2344E-05	6.1905E-07	7.9579E-05
607889.36	4207699.60	6.3016E-06	7.0345E-05	4.6098E-07	7.7108E-05
607946.85	4207685.49	6.0000E-06	6.6780E-05	5.1198E-07	7.3292E-05
607932.31	4207685.31	5.9644E-06	6.6385E-05	4.9239E-07	7.2842E-05
607875.00	4207699.33	6.2387E-06	6.6435E-05	4.2506E-07	7.3099E-05
607961.40	4207685.66	6.0244E-06	6.6493E-05	5.2552E-07	7.3043E-05
607917.76	4207685.14	5.9131E-06	6.5242E-05	4.6809E-07	7.1623E-05
607851.10	4207714.32	6.6665E-06	6.6908E-05	4.0391E-07	7.3978E-05
607975.95	4207685.83	6.0389E-06	6.5543E-05	5.3069E-07	7.2113E-05
607904.01	4207684.88	5.8603E-06	6.3508E-05	4.4203E-07	6.9810E-05
607990.50	4207686.01	6.0470E-06	6.4254E-05	5.2620E-07	7.0827E-05
607889.64	4207684.61	5.8032E-06	6.1096E-05	4.1338E-07	6.7313E-05
608005.05	4207686.18	6.0523E-06	6.2855E-05	5.1140E-07	6.9419E-05
607875.28	4207684.34	5.7457E-06	5.8145E-05	3.8447E-07	6.4275E-05
607932.49	4207670.31	5.5069E-06	5.7819E-05	4.2902E-07	6.3755E-05
607851.10	4207699.32	6.1242E-06	5.8963E-05	3.6911E-07	6.5456E-05
607947.03	4207670.49	5.5357E-06	5.8159E-05	4.4155E-07	6.4136E-05
607917.94	4207670.14	5.4684E-06	5.6945E-05	4.1230E-07	6.2826E-05
607961.58	4207670.66	5.5538E-06	5.7962E-05	4.4909E-07	6.3965E-05
607976.13	4207670.83	5.5639E-06	5.7306E-05	4.5031E-07	6.3320E-05
607904.29	4207669.88	5.4230E-06	5.5593E-05	3.9326E-07	6.1409E-05
607829.26	4207718.69	6.6995E-06	5.9028E-05	3.5594E-07	6.6083E-05
607990.68	4207671.01	5.5666E-06	5.6329E-05	4.4428E-07	6.2340E-05
607889.93	4207669.61	5.3719E-06	5.3708E-05	3.7120E-07	5.9451E-05
608005.22	4207671.18	5.5631E-06	5.5166E-05	4.3041E-07	6.1159E-05
607851.10	4207684.32	5.6429E-06	5.2364E-05	3.3767E-07	5.8345E-05
607875.56	4207669.34	5.3174E-06	5.1396E-05	3.4806E-07	5.7061E-05
607932.67	4207655.31	5.1069E-06	5.0947E-05	3.7621E-07	5.6430E-05
607947.21	4207655.49	5.1290E-06	5.1231E-05	3.8414E-07	5.6744E-05
607826.62	4207704.78	6.1719E-06	5.2485E-05	3.2531E-07	5.8982E-05
607961.76	4207655.66	5.1422E-06	5.1100E-05	3.8810E-07	5.6630E-05
607904.57	4207654.88	5.0352E-06	4.9162E-05	3.5067E-07	5.4547E-05
607976.31	4207655.84	5.1484E-06	5.0619E-05	3.8718E-07	5.6155E-05

2050 Operations

Mt. Diablo Resource Recovery Truck Maintenance Facility Project
Diesel Vehicle Emissions

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE7	**LHDT1**	10	0.011	0.1	403.2	0.25	3.803E-04	8.38E-07	4.402E-09	
	LHDT2	10	0.013	0.1	403.2	0.25	1.817E-04	4.00E-07	2.103E-09	
	MHDT	10	0.005	0.2	403.2	0.25	2.852E-04	6.28E-07	3.300E-09	
	HHDT	10	0.009	42.7	403.2	0.25	9.455E-02	2.08E-04	1.094E-06	**1.10E-06**
SLINE8	**LHDT1**	10	0.011	0.1	551.2	0.34	5.20E-04	1.15E-06	6.02E-09	
	LHDT2	10	0.013	0.1	551.2	0.34	2.48E-04	5.47E-07	2.88E-09	
	MHDT	10	0.005	0.2	551.2	0.34	3.90E-04	8.59E-07	4.51E-09	
	HHDT	10	0.009	42.7	551.2	0.34	1.29E-01	2.85E-04	1.50E-06	**1.51E-06**
SLINE13	**LHDT1**	10	0.011	0.1	210.9	0.13	1.99E-04	4.38E-07	2.30E-09	
	LHDT2	10	0.013	0.1	210.9	0.13	9.51E-05	2.09E-07	1.10E-09	
	MHDT	10	0.005	0.2	210.9	0.13	1.49E-04	3.29E-07	1.73E-09	
	HHDT	10	0.009	42.7	210.9	0.13	4.95E-02	1.09E-04	5.72E-07	**5.78E-07**
SLINE5	**LDA**	15	0.001	1	565.0	0.35	4.68E-04	1.03E-06	5.41E-09	
	LDT1	15	0.007	0	565.0	0.35	1.12E-05	2.47E-08	1.30E-10	
	LDT2	15	0.007	0	565.0	0.35	1.48E-04	3.26E-07	1.72E-09	
	MDV	15	0.001	0	565.0	0.35	1.92E-04	4.22E-07	2.22E-09	**9.47E-09**
SLINE6	**LDA**	15	0.001	1	192.0	0.12	1.589E-04	3.50E-07	1.839E-09	
	LDT1	15	0.007	0	192.0	0.12	3.804E-06	8.38E-09	4.403E-11	
	LDT2	15	0.007	0	192.0	0.12	5.037E-05	1.11E-07	5.829E-10	
	MDV	15	0.001	0	192.0	0.12	6.513E-05	1.43E-07	7.539E-10	**3.22E-09**

Diesel Vehicle Emissions

Diesel truck Idling Emissions Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor (grams/trip)	Emissions Idling Time (min)	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Emissions for all Vehicles (g/sec)
SLINE9	**LHDT1**	0.001	15	0.1	5.80E-05	1.29E-06	6.71E-10	
	LHDT2	0.001	15	0.0	3.21E-05	7.07E-08	3.71E-10	
	MHDT	0.000	15	0.2	3.64E-06	8.02E-09	4.21E-11	
	HHDT	0.001	15	32.0	3.53E-02	7.77E-05	4.08E-07	**4.09E-07**
SLINE10	**LHDT1**	0.001	15	0.1	5.80E-05	1.28E-07	6.71E-10	
	LHDT2	0.001	15	0.0	3.21E-05	7.07E-08	3.71E-10	
	MHDT	0.000	15	0.2	3.64E-06	8.02E-09	4.21E-11	
	HHDT	0.001	15	32.0	3.53E-02	7.77E-05	4.08E-07	**4.09E-07**
SLINE11	**LHDT1**	0.001	15	0.1	5.80E-05	1.28E-07	6.71E-10	
	LHDT2	0.001	15	0.0	3.21E-05	7.07E-08	3.71E-10	
	MHDT	0.000	15	0.2	3.64E-06	8.02E-09	4.21E-11	
	HHDT	0.001	15	32.0	3.53E-02	7.77E-05	4.08E-07	**4.09E-07**
SLINE12	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	2.31E-05	5.08E-08	2.67E-10	
	MHDT	0.001	15	0.2	1.37E-04	3.01E-07	1.58E-09	
	HHDT	0.000	15	32.0	6.73E-04	1.48E-06	7.79E-09	**9.64E-09**
VOL1	**LHDT1**	0.000	15	0.1	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.0	2.31E-05	5.08E-08	2.67E-10	
	MHDT	0.001	15	0.2	1.37E-04	3.01E-07	1.58E-09	
	HHDT	0.000	15	32.0	6.73E-04	1.48E-06	7.79E-09	**9.64E-09**
VOL2	**LHDT1**	0.000	15	0.2	0.00E+00	0.00E+00	0.00E+00	
	LHDT2	0.001	15	0.1	4.62E-05	1.02E-07	5.34E-10	
	MHDT	0.001	15	0.3	2.73E-04	6.02E-07	3.16E-09	
	HHDT	0.000	15	64.1	1.35E-03	2.96E-06	1.56E-08	**1.93E-08**

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Project Operations 24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Segment ID: SLINE1
Travel Distance: 744.8 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.001	0.46	0.00	5.03E-10
LHDT2-DSL	0	0.002	0.46	0.00	3.33E-10
MHDT-DSL	0	0.002	0.46	0.00	1.44E-09
HHDT-DSL	32	0.002	0.46	0.02	2.66E-07
Total	32				**2.68E-07**

Segment ID: SLINE2
Travel Distance: 489.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	0	0.001	0.30	0.00	3.31E-10
LHDT2-DSL	0	0.002	0.30	0.00	2.19E-10
MHDT-DSL	0	0.002	0.30	0.00	9.45E-10
HHDT-DSL	32	0.002	0.30	0.02	1.75E-07
Total	32				**1.76E-07**

Segment ID: SLINE3
Travel Distance: 772.5 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.001	0.48	0.01	1.23E-07
LHDT2-DSL	0	0.002	0.48	0.00	3.46E-10
MHDT-DSL	0	0.002	0.48	0.00	1.49E-09
HHDT-DSL	32	0.002	0.48	0.02	2.76E-07
Total	32				**4.00E-07**

Segment ID: SLINE4
Travel Distance: 497.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.001	0.48	0.01	1.23E-07
LHDT2-DSL	0	0.002	0.48	0.00	3.46E-10
MHDT-DSL	0	0.002	0.48	0.00	1.49E-09
HHDT-DSL	32	0.002	0.48	0.02	2.76E-07
Total	32				**4.00E-07**

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	Route 1 (Outgoing)	25.0%
SLINE2	Route 2 (Incoming)	25.0%
SLINE3	Route 3 (Outgoing)	25.0%
SLINE4	Route 4 (Incoming)	25.0%
	Total	100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	2.2	0.0	0.1	0.8
SLINE1	0.6	0.0	0.0	0.2
SLINE2	0.6	0.0	0.0	0.2
SLINE3	0.6	0.0	0.0	0.2
SLINE4	0.6	0.0	0.0	0.2

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	744.8	0.46	0.001	1.47E-04	24	1.70E-09
LDT1-DSL	744.8	0.46	0.001	5.97E-07	24	6.90E-12
LDT2-DSL	744.8	0.46	0.001	7.91E-06	24	9.15E-11
MDT-DSL	744.8	0.46	0.001	9.03E-05	24	1.05E-09
Total						**2.85E-09**

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	489.9	0.30	0.001	9.68E-05	24	1.12E-09
LDT1-DSL	489.9	0.30	0.001	3.92E-07	24	4.54E-12
LDT2-DSL	489.9	0.30	0.001	5.20E-06	24	6.02E-11
MDT-DSL	489.9	0.30	0.001	5.94E-05	24	6.88E-10
Total						**1.87E-09**

ATTACHMENT E

Energy Calculations

Mt. Diablo Resource Recovery Truck Maintenance Facility Project
Energy Consumption Summary

Date of Last Revision: December 16, 2020

Summary of Energy Use During Construction		(Annually)
Construction vehicle fuel	5,100	gallons (gasoline, diesel)
Construction equipment fuel	8,954	gallons (diesel)
Construction office trailer electricity	6,674	kilowatt hours

Summary of Energy Use During Proposed Operations		(Annually)
Operational vehicle fuel consumption		
Employee Vehicles	*14,666*	*gallons (gasoline, diesel)*
Trucks	*282,737*	*gallons (gasoline, diesel)*
Visitors/Deliveries	*4,613*	*gallons (gasoline, diesel)*
Total vehicle fuel consumption	302,016	gallons (gasoline, diesel)
Operational natural gas consumption	1,045,050	kilo-British Thermal Units
Operational electricity consumption	404,358	kilowatt hours

Construction Vehicle Fuel Calculations

California Air Resource Board (CARB). 2020. EMFAC2014 Web Database. Website: https://www.arb.ca.gov/emfac/2014/. Accessed Decmeber 14, 2020.

EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Contra Costa
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled
FE = Fuel Economy

							Calculations	
VehClass	MdlYr	Speed	Fuel	Population	VMT (mi/day)	Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE
LDA	Aggregated	Aggregated	GAS	380337.661	14006558	465.5672715	30.0849277	4.2139E+08
LDA	Aggregated	Aggregated	DSL	4254.05435	160879.05	4.201197939	38.2936124	6.1606E+06
LDT1	Aggregated	Aggregated	GAS	28059.6786	986241.09	38.94179415	25.3260311	2.4978E+07
LDT1	Aggregated	Aggregated	DSL	28.0968962	670.33595	0.022756172	29.4573245	1.9746E+04
LDT2	Aggregated	Aggregated	GAS	118240.075	4687318.7	207.9269946	22.5430986	1.0567E+08
LDT2	Aggregated	Aggregated	DSL	202.78264	8986.0886	0.300265337	29.9271593	2.6893E+05
MDV	Aggregated	Aggregated	GAS	86570.3457	3056760.8	184.6288365	16.556248	5.0608E+07
MDV	Aggregated	Aggregated	DSL	1317.25119	58790.976	2.578657698	22.7990618	1.3404E+06
LHDT1	Aggregated	Aggregated	GAS	7047.18719	209041.87	21.64786105	9.65646782	2.0186E+06
LHDT1	Aggregated	Aggregated	DSL	6553.45571	224792.15	12.83678031	17.5115678	3.9365E+06
LHDT2	Aggregated	Aggregated	GAS	1029.63118	38838.395	4.379034379	8.86916885	3.4446E+05
LHDT2	Aggregated	Aggregated	DSL	2257.23875	89485.076	5.633193318	15.8853196	1.4215E+06
MHDT	Aggregated	Aggregated	GAS	712.675844	38848.255	5.988409111	6.48724133	2.5202E+05
MHDT	Aggregated	Aggregated	DSL	4714.43802	229129.25	27.6091001	8.29904793	1.9016E+06
HHDT	Aggregated	Aggregated	GAS	35.4941061	4801.8902	1.009961892	4.75452608	2.2831E+04
HHDT	Aggregated	Aggregated	DSL	4335.87965	595909.43	101.6563277	5.86200038	3.4932E+06

Worker
Weighted Average FE **26.57943384**

Vendor
Weighted Average FE **9.358557153**

Haul
Weighted Average FE **5.853147596**

Mt. Diablo Resource Recovery Truck Maintenance Facility Project—Construction Parameters

Construction
Source: Air Quality/Greenhouse Gas Appendix, CalEEMod Output
Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Construction Schedule

Construction Activity	Construction Phase	Start Date	End Date	Num Days Week	Num Days
Site Preparation	Phase 1	6/1/2021	6/14/2021	5	10
Grading	Phase 1	6/15/2021	7/26/2021	5	30
Paving	Phase 1	7/27/2021	8/23/2021	5	20
Site Preparation	Phase 2	6/1/2023	6/1/2023	5	1
Grading	Phase 2	6/2/2023	6/5/2023	5	2
Building Construction	Phase 2	6/6/2023	10/23/2023	5	100
Paving	Phase 2	9/15/2023	9/21/2023	5	5
Architectural Coating	Phase 2	10/24/2023	10/30/2023	5	5
Site Preparation	Phase 3	6/1/2026	6/1/2026	5	1
Grading	Phase 3	6/2/2026	6/3/2026	5	2
Building Construction	Phase 3	6/4/2026	10/21/2026	5	100
Paving	Phase 3	9/15/2026	9/21/2026	5	5
Architectural Coating	Phase 3	10/24/2026	10/30/2026	5	5

Construction Trips and VMT

	Trips per Day		Total Trips	Construction Trip Length in Miles				Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
Construction Activity	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Number of Days per Phase	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Phase 1																
Site Preparation	30	0	14	10.8	7.3	20	10	300	0	14	3,240	0	280	121.90	0.00	2.39
Grading	30	0	481	10.8	7.3	20	30	900	0	481	9,720	0	9,620	365.70	0.00	82.18
Paving	30	8	4	10.8	7.3	20	20	600	160	4	6,480	1,168	80	243.80	124.81	0.68
Phase 2																
Site Preparation	30	0	4	10.8	7.3	20	1	30	0	4	324	0	80	12.19	0.00	0.68
Grading	30	0	236	10.8	7.3	20	2	60	0	236	648	0	4,720	24.38	0.00	40.32
Building Construction	30	5	10	10.8	7.3	20	100	3,000	500	10	32,400	3,650	200	1,218.99	390.02	1.71
Paving	30	0	14	10.8	7.3	20	5	150	0	14	1,620	0	280	60.95	0.00	2.39
Architectural Coating	30	0	2	10.8	7.3	20	5	150	0	2	1,620	0	40	60.95	0.00	0.34
Phase 3																
Site Preparation	30	0	6	10.8	7.3	20	1	30	0	6	324	0	120	12.19	0.00	1.03
Grading	30	0	151	10.8	7.3	20	2	60	0	151	648	0	3,020	24.38	0.00	25.80
Building Construction	30	12	16	10.8	7.3	20	100	3,000	1,200	16	32,400	8,760	320	1,218.99	936.04	2.73
Paving	30	0	12	10.8	7.3	20	5	150	0	12	1,620	0	240	60.95	0.00	2.05
Architectural Coating	30	0	2	10.8	7.3	20	5	150	0	2	1,620	0	40	60.95	0.00	0.34

Total Project Construction VMT (miles)
125,282

Phase 1 Construction VMT (miles)
30,588

Phase 2 Construction VMT (miles)
45,582

Phase 3 Construction VMT (miles)
49,112

Total Project Fuel Consumption (gallons)
5,099.8

Phase 1 Fuel Consumption (gallons)
941.5

Phase 2 Fuel Consumption (gallons)
1,812.9

Phase 3 Fuel Consumption (gallons)
2,345.4

Construction Equipment Fuel Calculation

Mt. Diablo Resource Recovery Truck Maintenance Facility Project

Construction Schedule

CalEEMod Run	Construction Activity	Start Date	End Date	Days per Week	Working Days
Phase 1	Site Preparation	6/1/2021	6/14/2021	5	10
Phase 1	Grading	6/15/2021	7/26/2021	5	30
Phase 1	Paving	7/27/2021	8/23/2021	5	20
Phase 2	Site Preparation	6/1/2023	6/1/2023	5	1
Phase 2	Grading	6/2/2023	6/5/2023	5	2
Phase 2	Building Construction	6/6/2023	10/23/2023	5	100
Phase 2	Paving	9/15/2023	9/21/2023	5	5
Phase 2	Architectural Coating	10/24/2023	10/30/2023	5	5
Phase 3	Site Preparation	6/1/2026	6/1/2026	5	1
Phase 3	Grading	6/2/2026	6/3/2026	5	2
Phase 3	Building Construction	6/4/2026	10/21/2026	5	100
Phase 3	Paving	9/15/2026	9/21/2026	5	5
Phase 3	Architectural Coating	10/24/2026	10/30/2026	5	5

Construction Equipment

Phase Name/Construction Activity	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	HP Hours	Fuel (gallons/HP-hour)	Diesel Fuel Usage
Phase 1									
Site Preparation	Rubber Tired Dozers	3	8	247	0.40	10	23712	0.020	485.18
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37	10	11484.8	0.019	218.21
								Site Preparation	*703.39*
Grading	Excavators	2	8	158	0.38	30	28819.2	0.020	576.38
Grading	Graders	1	8	187	0.41	30	18400.8	0.021	389.05
Grading	Rubber Tired Dozers	1	8	247	0.40	30	23712	0.020	485.18
Grading	Scrapers	2	8	367	0.48	30	84556.8	0.025	2,112.48
								Grading	*3,563.10*
Paving	Pavers	2	8	130	0.42	20	17472	0.022	375.87
								Paving	*375.87*
Phase 2									
Site Preparation	Graders	1	8	187	0.41	1	613.36	0.021	12.97
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1	287.12	0.019	5.49
								Site Preparation	*18.46*
Grading	Concrete/Industrial Saws	1	8	81	0.73	2	946.08	0.042	39.67
Grading	Rubber Tired Dozers	1	1	247	0.40	2	197.6	0.020	4.04
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37	2	861.36	0.019	16.46
								Grading	*60.18*
Building Construction	Cranes	1	4	231	0.29	100	26796	0.015	399.05
Building Construction	Forklifts	2	6	89	0.20	100	21360	0.021	444.48
Building Construction	Tractors/Loaders/Backhoes	2	8	97	0.37	100	57424	0.019	1,097.53
								Building Construction	*1,941.07*
Paving	Cement and Mortar Mixers	4	6	9	0.56	5	604.8	0.032	19.37
Paving	Pavers	1	7	130	0.42	5	1911	0.022	41.11
Paving	Rollers	1	7	80	0.38	5	1064	0.019	20.66
Paving	Tractors/Loaders/Backhoes	1	7	97	0.37	5	1256.15	0.019	24.01
								Paving	*105.15*
Architectural Coating	Air Compressors	1	6	78	0.48	5	1123.2	0.028	31.02
								Architectural Coating	*31.02*
Phase 3									
Site Preparation	Graders	1	8	187	0.41	1	613.36	0.021	12.97
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1	287.12	0.019	5.49
								Site Preparation	*18.46*
Grading	Concrete/Industrial Saws	1	8	81	0.73	2	946.08	0.042	39.67
Grading	Rubber Tired Dozers	1	1	247	0.40	2	197.6	0.020	4.04
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37	2	861.36	0.019	16.46
								Grading	*60.18*
Building Construction	Cranes	1	4	231	0.29	100	26796	0.015	399.05
Building Construction	Forklifts	2	6	89	0.20	100	21360	0.021	444.48
Building Construction	Tractors/Loaders/Backhoes	2	8	97	0.37	100	57424	0.019	1,097.53
								Building Construction	*1,941.07*
Paving	Cement and Mortar Mixers	4	6	9	0.56	5	604.8	0.032	19.37
Paving	Pavers	1	7	130	0.42	5	1911	0.022	41.11
Paving	Rollers	1	7	80	0.38	5	1064	0.019	20.66
Paving	Tractors/Loaders/Backhoes	1	7	97	0.37	5	1256.15	0.019	24.01
								Paving	*105.15*
Architectural Coating	Air Compressors	1	6	78	0.48	5	1123.2	0.028	31.02
								Architectural Coating	*31.02*
							Total Construction Equipment Fuel Consumption (gallons)		**8,954.10**

Equipment assumptions are provided in the CalEEMod output files.
Source of fuel usage estimates in gallons per HP-hour: California Air Resource Board (ARB). 2020. OFFROAD2014 (v1.0.7) Emissions Inventory
Website: https://www.arb.ca.gov/orion/. Accessed December 12, 2020.
Region Type: County
Region: Contra Costa
Calendar Year: 2021
Scenario: All Adopted Rules - Exhaust

Construction Office Electricity Calculation

Energy Appendix: CalEEMod Typical Construction Trailer
Typical Construction Trailer - Contra Costa County, Annual

kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity

Annual	6,566 kWh/yr
Phase 1 Construction	**1,241 kWh/yr**
Phase 2 Construction	**2,717 kWh/yr**
Phase 3 Construction	**2,717 kWh/yr**
Total Construction	**6,674 kWh/yr**

Construction Schedule

Phase 1	
Start	6/1/2021
End	8/9/2021
Total Calendar Days	69
Years	0.19
Phase 2	
Start	6/1/2023
End	10/30/2023
Total Calendar Days	151
Years	0.41
Phase 3	
Start	6/1/2026
End	10/30/2026
Total Calendar Days	151
Years	0.41

Operational Fuel Calculation—Employee Vehicles (Passenger Vehicles)

California Air Resource Board (CARB). 2020. EMFAC2014 Web Database. Website: https://www.arb.ca.gov/emfac/2014/. Accessed December 12, 2020.

EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Contra Costa
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Given *Calculations*

VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
LDA	Aggregated	Aggregated	GAS	380337.661	14006557.71	465.5672715	30.08492772	421386276.4
LDA	Aggregated	Aggregated	DSL	4254.054347	160879.0454	4.201197939	38.29361238	6160639.805
LDT1	Aggregated	Aggregated	GAS	28059.67855	986241.0891	38.94179415	25.32603108	24977572.48
LDT1	Aggregated	Aggregated	DSL	28.09689616	670.3359452	0.022756172	29.45732452	19746.30347
LDT2	Aggregated	Aggregated	GAS	118240.0747	4687318.748	207.9269946	22.54309863	105666688.9
LDT2	Aggregated	Aggregated	DSL	202.7826401	8986.088558	0.300265337	29.92715926	268928.1034
MDV	Aggregated	Aggregated	GAS	86570.34572	3056760.812	184.6288365	16.55624804	50608490.19
MDV	Aggregated	Aggregated	DSL	1317.251187	58790.97628	2.578657698	22.79906182	1340379.103

Employee Vehicles (Passenger Vehicles)
Weighted Average FE (miles/gallon) 26.5794

Total VMT—Employee Vehicles
Source: AQ/GHG Appendix, CalEEMod Output
Unmitigated Project Operations - Employee Trips, Building, and Area - Contra Costa County, Annual

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	138.00	10.62	0.00	389,822	389,822
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	138.00	10.62	0.00	389,822	389,822

	Annual VMT (miles)	Fuel Consumption	
Total VMT—Employee Vehicles	389,822	14,666	gallons per year

Proposed Operation Fuel Calculation—Trucks

California Air Resource Board (CARB). 2020. EMFAC2014 Web Database. Website: https://www.arb.ca.gov/emfac/2014/. Accessed December 12, 2020.

EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Contra Costa
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Given *Calculations*

VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
HHDT	Aggregated	Aggregated	GAS	35.49410612	4801.890157	1.009961892	4.754526082	22830.712
HHDT	Aggregated	Aggregated	DSL	4335.879651	595909.4323	101.6563277	5.862000384	3493221.3
							HHDT	
							Weighted Average FE	**5.8531476**

Fuel Economy Summary—Trucks

Source: AQ/GHG Appendix, CalEEMod Output
Unmitigated Project Operations - Project Truck Operations - Contra Costa County, Annual

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	130.00	20.00	0.00	1,654,900	1,654,900
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	130.00	20.00	0.00	1,654,900	1,654,900

Vehicle Class	FE	Percent of Vehicle Type Classification	Truck VMT (miles)	Fuel Consumption (gallons/year)
HHDT	5.853147596	100%	1,654,900	282,736.76

Operational Fuel Calculation—Visitors/Deliveries

California Air Resource Board (CARB). 2020. EMFAC2014 Web Database. Website: https://www.arb.ca.gov/emfac/2014/. Accessed December 12, 2020.

EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Contra Costa
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Given *Calculations*

VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
LDA	Aggregated	Aggregated	GAS	380337.661	14006557.71	465.5672715	30.08492772	421386276.4
LDA	Aggregated	Aggregated	DSL	4254.054347	160879.0454	4.201197939	38.29361238	6160639.805
LDT1	Aggregated	Aggregated	GAS	28059.67855	986241.0891	38.94179415	25.32603108	24977572.48
LDT1	Aggregated	Aggregated	DSL	28.09689616	670.3359452	0.022756172	29.45732452	19746.30347
LDT2	Aggregated	Aggregated	GAS	118240.0747	4687318.748	207.9269946	22.54309863	105666688.9
LDT2	Aggregated	Aggregated	DSL	202.7826401	8986.088558	0.300265337	29.92715926	268928.1034
MDV	Aggregated	Aggregated	GAS	86570.34572	3056760.812	184.6288365	16.55624804	50608490.19
MDV	Aggregated	Aggregated	DSL	1317.251187	58790.97628	2.578657698	22.79906182	1340379.103
LHDT1	Aggregated	Aggregated	GAS	7047.187186	209041.8735	21.64786105	9.656467815	2018606.124
LHDT1	Aggregated	Aggregated	DSL	6553.455705	224792.1488	12.83678031	17.51156781	3936462.957
LHDT2	Aggregated	Aggregated	GAS	1029.631179	38838.39532	4.379034379	8.869168855	344464.2862
LHDT2	Aggregated	Aggregated	DSL	2257.238747	89485.07633	5.633193318	15.88531962	1421499.038
MHDT	Aggregated	Aggregated	GAS	712.6758445	38848.25506	5.988409111	6.487241326	252018.0057
MHDT	Aggregated	Aggregated	DSL	4714.43802	229129.245	27.6091001	8.29904793	1901554.587
HHDT	Aggregated	Aggregated	GAS	35.49410612	4801.890157	1.009961892	4.754526082	22830.712
HHDT	Aggregated	Aggregated	DSL	4335.879651	595909.4323	101.6563277	5.862000384	3493221.321
MCY	Aggregated	Aggregated	GAS	18026.0343	137693.9314	3.743267877	36.7844183	5064991.17
MH	Aggregated	Aggregated	GAS	2020.545623	17031.97115	2.570457449	6.626046723	112854.6366
MH	Aggregated	Aggregated	DSL	565.7507902	4957.165162	0.514748623	9.630264062	47738.80951
OBUS	Aggregated	Aggregated	GAS	404.9510033	23731.6387	3.595085666	6.601133019	156655.7038
OBUS	Aggregated	Aggregated	DSL	213.6893012	16794.05531	2.326478796	7.218658231	121230.5456
SBUS	Aggregated	Aggregated	GAS	80.22290382	4024.339842	0.338972138	11.87218473	47777.70601
SBUS	Aggregated	Aggregated	DSL	1715.44664	65306.78783	9.021228558	7.23923437	472771.1431
UBUS	Aggregated	Aggregated	GAS	151.1235255	22499.59681	4.534938186	4.961389966	111629.2739
UBUS	Aggregated	Aggregated	DSL	155.7471153	23187.96686	5.235838728	4.428701505	102692.5837

Visitors/Deliveries (CalEEMod Default Fleet Mix)
Weighted Average FE (miles/gallon) **25.4957**

Total VMT—Employee Vehicles
Source: AQ/GHG Appendix, CalEEMod Output
Unmitigated Project Operations - Visitors/Deliveries - Contra Costa County, Annual

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	47.00	47.00	0.00	117,615	117,615
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	47.00	47.00	0.00	117,615	117,615

	Annual VMT (miles)	Fuel Consumption	
Total VMT—Visitors/Deliveries	117,615	4,613	gallons per year

Project Operations Natural Gas Use

Source: AQ/GHG Appendix, CalEEMod Output
Unmitigated Project Operations - Employee Trips, Building, and Area
Contra Costa County, Annual

kBTU/yr = kilo-British Thermal Units/year

CalEEMod Land Use	Natural Gas Use (kBTU/yr)
Automobile Care Center	488,901
City Park	0
Gasoline/Service Station	7,448
General Light Industry	514,938
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Parking Lot	0
Unrefrigerated Warehouse-No Rail	33,763
Total	**1,045,050 kBTU/yr**

Project Operations Electricity Use

Source: AQ/GHG Appendix, CalEEMod Output
Unmitigated Project Operations - Employee Trips, Building, and Area
Contra Costa County, Annual

kWh/yr = kilowatt hours per year

CalEEMod Land Use	Electricity Use (kWh/yr)	
Automobile Care Center	153,083	
City Park	0	
Gasoline/Service Station	2,332	
General Light Industry	161,235	
Other Asphalt Surfaces	0	
Other Non-Asphalt Surfaces	0	
Parking Lot	53,361	
Unrefrigerated Warehouse-No Rail	34,347	
Total	**404,358**	**kWh/yr**

Existing Operations Fuel Calculation— Existing Trucks (Truck Operations Being Relocated as Part of the Project)

California Air Resource Board (CARB). 2020. EMFAC2014 Web Database. Website: https://www.arb.ca.gov/emfac/2014/. Accessed December 12, 2020.

EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Contra Costa
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Given *Calculations*

VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
HHDT	Aggregated	Aggregated	GAS	35.49410612	4801.890157	1.009961892	4.754526082	22830.712
HHDT	Aggregated	Aggregated	DSL	4335.879651	595909.4323	101.6563277	5.862000384	3493221.3

	HHDT
Weighted Average FE	**5.8531476**

Fuel Economy Summary—Existing Trucks

Source: AQ/GHG Appendix, CalEEMod Output
Existing Truck Operations (2021 Scenario) - Contra Costa County, Annual

Vehicle Class	FE	Percent of Vehicle Type Classification	Truck VMT (miles)	Fuel Consumption (gallons/year)
HHDT	5.853147596	100%	1,605,500	274,296.86

Existing Natural Gas Use

Source: AQ/GHG Appendix, CalEEMod Output
Existing Truck Operations (2021 Scenario)
Contra Costa County, Annual

kBTU/yr = kilo-British Thermal Units/year

CalEEMod Land Use	Natural Gas Use (kBTU/yr)
Unrefrigerated Warehouse-No Rail	33,763
Total	**33,763 kBTU/yr**

Existing Electricity Use

Source: AQ/GHG Appendix, CalEEMod Output
Existing Truck Operations (2021 Scenario)
Contra Costa County, Annual

kWh/yr = kilowatt hours per year

CalEEMod Land Use	Electricity Use (kWh/yr)
Unrefrigerated Warehouse-No Rail	34,347
Total	**34,347 kWh/yr**

Typical Construction Trailer

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.72	1000sqft	0.02	720.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted CO2e to reflect updated factors and compliance with RPS (see the CO2e Intensity Factor Adjustments sheet for source and calculations).

Land Use - Upper range of typical single-wide mobile office trailer = 720 square feet.

Construction Phase - Typical construction trailer for energy use estimates - estimates would be included in the operational component of the results

Off-road Equipment - Zeroed out construction equipment

Off-road Equipment - Zeroed out construction equipment

Vehicle Trips - Run for energy estimation only

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.3177	2.3177	1.8000e-004	5.0000e-005	2.3360
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.1272	0.1678	4.1800e-003	1.0000e-004	0.3025
Total	**3.2500e-003**	**5.8000e-004**	**5.0000e-004**	**0.0000**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.1766**	**2.4449**	**2.6215**	**0.0124**	**1.5000e-004**	**2.9755**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.3177	2.3177	1.8000e-004	5.0000e-005	2.3360
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.1272	0.1678	4.1800e-003	1.0000e-004	0.3025
Total	**3.2500e-003**	**5.8000e-004**	**5.0000e-004**	**0.0000**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.1766**	**2.4449**	**2.6215**	**0.0124**	**1.5000e-004**	**2.9755**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.6887	1.6887	1.7000e-004	3.0000e-005	1.7033
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.6887	1.6887	1.7000e-004	3.0000e-005	1.7033
NaturalGas Mitigated	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6290	0.6290	1.0000e-005	1.0000e-005	0.6327
NaturalGas Unmitigated	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6290	0.6290	1.0000e-005	1.0000e-005	0.6327

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	12837.6	1.6887	1.7000e-004	3.0000e-005	1.7033
Total		**1.6887**	**1.7000e-004**	**3.0000e-005**	**1.7033**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	12837.6	1.6887	1.7000e-004	3.0000e-005	1.7033
Total		**1.6887**	**1.7000e-004**	**3.0000e-005**	**1.7033**

Offsite Segment ID SLINE3 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	772.5	0.48	0.001	1.53E-04	24	1.77E-09
LDT1-DSL	772.5	0.48	0.001	6.19E-07	24	7.16E-12
LDT2-DSL	772.5	0.48	0.001	8.20E-06	24	9.49E-11
MDT-DSL	772.5	0.48	0.001	9.37E-05	24	1.08E-09
Total						**2.95E-09**

Offsite Segment ID SLINE4 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	497.9	0.31	0.001	9.84E-05	24	1.14E-09
LDT1-DSL	497.9	0.31	0.001	3.99E-07	24	4.62E-12
LDT2-DSL	497.9	0.31	0.001	5.29E-06	24	6.12E-11
MDT-DSL	497.9	0.31	0.001	6.04E-05	24	6.99E-10
Total						**1.90E-09**

DPM 2050

EMFAC Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	**15 mph**	**25 mph**	**35 mph**
LDA	GAS	0.0026	0.0017	0.0009	0.0006
LDT1	GAS	0.0026	0.0017	0.0009	0.0006
LDT2	GAS	0.0026	0.0017	0.0009	0.0006
MDV	GAS	0.0027	0.0018	0.0009	0.0006
LHDT1	GAS	0.0045	0.0030	0.0015	0.0010
LHDT2	GAS	0.0045	0.0030	0.0015	0.0010
MHDT	GAS	0.0045	0.0030	0.0015	0.0010
HHDT	GAS	0.0045	0.0030	0.0015	0.0010
LDA	DSL	0.0014	0.0012	0.0009	0.0007
LDT1	DSL	0.0081	0.0071	0.0052	0.0042
LDT2	DSL	0.0081	0.0070	0.0051	0.0041
MDV	DSL	0.0016	0.0014	0.0010	0.0008
LHDT1	DSL	0.0111	0.0097	0.0070	0.0056
LHDT2	DSL	0.0134	0.0117	0.0085	0.0068
MHDT	DSL	0.0049	0.0042	0.0034	0.0029
HHDT	DSL	0.0088	0.0078	0.0064	0.0055

Idling Emissions (Emission Factors from CalEEMod)
in units of grams/trip

Vehicle Class	**Fuel**	**Vehicle Speed (mph)**	**DPM (grams/trip)**
LHDT1	DSL	Idle	0.000567
LHDT2	DSL	Idle	0.000788
MHDT	DSL	Idle	0.000021
HHDT	DSL	Idle	0.001101

Unmitigated 2050
Diesel Vehicle Concentrations

	X	Y	DPM (ug/m3)
Max	607888.80	4207729.60	9.4301E-05
Construction MIR	607888.80	4207729.60	5.7967E-02
Operational MIR	607888.80	4207729.60	9.4301E-05

X	Y	1 to 6 DPM (ug/m3)	7 to 15 DPM (ug/m3)	Wash/ Entrance DPM (ug/m3)	Total DPM (ug/m3)
607888.80	4207729.60	7.1613E-06	8.6579E-05	5.6133E-07	9.4301E-05
607874.44	4207729.33	7.0535E-06	8.0056E-05	5.0887E-07	8.7619E-05
607889.08	4207714.60	6.5099E-06	7.2474E-05	5.0156E-07	7.9486E-05
607946.67	4207700.48	6.2018E-06	6.8042E-05	5.8339E-07	7.4828E-05
607932.13	4207700.31	6.1580E-06	6.7704E-05	5.5390E-07	7.4416E-05
607961.22	4207700.66	6.2339E-06	6.7623E-05	6.0676E-07	7.4464E-05
607917.58	4207700.14	6.0934E-06	6.6480E-05	5.1977E-07	7.3094E-05
607874.72	4207714.33	6.4314E-06	6.7882E-05	4.5844E-07	7.4772E-05
607975.77	4207700.83	6.2566E-06	6.6522E-05	6.1895E-07	7.3398E-05
607903.73	4207699.87	6.0281E-06	6.4551E-05	4.8514E-07	7.1064E-05
607990.32	4207701.01	6.2752E-06	6.5141E-05	6.1874E-07	7.2035E-05
607851.10	4207729.32	6.8800E-06	6.8160E-05	4.3186E-07	7.5472E-05
608004.87	4207701.18	6.2914E-06	6.3652E-05	6.0322E-07	7.0547E-05
607889.36	4207699.60	5.9621E-06	6.1867E-05	4.4920E-07	6.8278E-05
607946.85	4207685.49	5.6946E-06	5.8402E-05	4.9889E-07	6.4595E-05
607932.31	4207685.31	5.6571E-06	5.8089E-05	4.7981E-07	6.4226E-05
607875.00	4207699.33	5.8988E-06	5.8522E-05	4.1420E-07	6.4835E-05
607961.40	4207685.66	5.7214E-06	5.8153E-05	5.1208E-07	6.4387E-05
607917.76	4207685.14	5.6046E-06	5.7143E-05	4.5612E-07	6.3204E-05
607851.10	4207714.32	6.2934E-06	5.9263E-05	3.9358E-07	6.5950E-05
607975.95	4207685.83	5.7386E-06	5.7367E-05	5.1712E-07	6.3623E-05
607904.01	4207684.88	5.5511E-06	5.5688E-05	4.3073E-07	6.1670E-05
607990.50	4207686.01	5.7496E-06	5.6321E-05	5.1275E-07	6.2583E-05
607889.64	4207684.61	5.4934E-06	5.3642E-05	4.0281E-07	5.9538E-05
608005.05	4207686.18	5.7578E-06	5.5186E-05	4.9832E-07	6.1442E-05
607875.28	4207684.34	5.4354E-06	5.1114E-05	3.7464E-07	5.6924E-05
607932.49	4207670.31	5.2252E-06	5.0565E-05	4.1805E-07	5.6208E-05
607851.10	4207699.32	5.7845E-06	5.2054E-05	3.5968E-07	5.8198E-05
607947.03	4207670.49	5.2559E-06	5.0835E-05	4.3026E-07	5.6521E-05
607917.94	4207670.14	5.1853E-06	4.9840E-05	4.0176E-07	5.5427E-05
607961.58	4207670.66	5.2765E-06	5.0659E-05	4.3761E-07	5.6373E-05
607976.13	4207670.83	5.2893E-06	5.0113E-05	4.3880E-07	5.5841E-05
607904.29	4207669.88	5.1391E-06	4.8701E-05	3.8320E-07	5.4223E-05
607829.26	4207718.69	6.3178E-06	5.2396E-05	3.4684E-07	5.9061E-05
607990.68	4207671.01	5.2950E-06	4.9308E-05	4.3292E-07	5.5036E-05
607889.93	4207669.61	5.0874E-06	4.7096E-05	3.6171E-07	5.2545E-05
608005.22	4207671.18	5.2948E-06	4.8345E-05	4.1941E-07	5.4059E-05
607851.10	4207684.32	5.3326E-06	4.6115E-05	3.2904E-07	5.1776E-05
607875.56	4207669.34	5.0326E-06	4.5111E-05	3.3916E-07	5.0483E-05

Health Risk Assessment

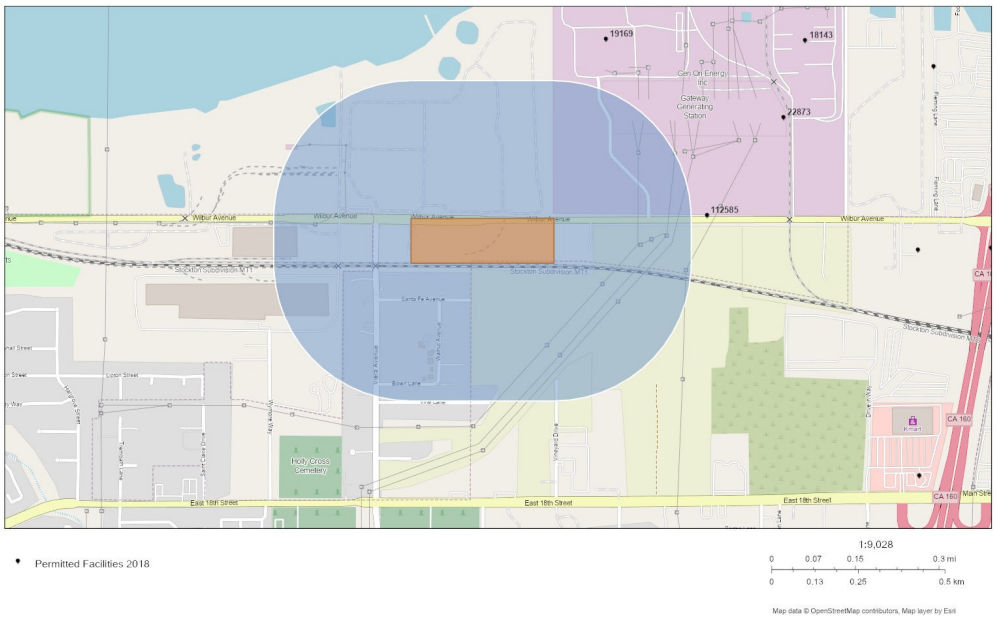
Attachment C: Additional Information to Support Cumulative Analysis

Stationary Source Risk & Hazards Screening Report (1,300-foot buffer from project boundary)

Area of Interest (AOI) Information

Area : 10,485,361.73 ft²

Dec 14 2020 19:00:23 Pacific Standard Time



https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=238...

Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Facilities 2018	0	N/A	N/A

Note: The estimated risk and hazard impacts from these sources would be expected to be substantially lower when site specific Health Risk Screening Assessments are conducted.

The screening level map is not recommended for evaluating sensitive land uses such as schools, senior centers, day cares, and health facilities.

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Appendix C CULTURAL RESOURCES INVENTORY REPORT

Mt. Diablo Resource Recovery Maintenance Facility Project

Cultural Resources Inventory Report

November 2, 2020

Prepared for:

City of Antioch
200 H Street
Antioch, CA 94509

Prepared by:

Stantec Consulting Services Inc.
1383 North McDowell Boulevard, Suite 250
Petaluma, CA 94954

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Acronyms and Abbreviations

AB 52	Assembly Bill 52
API	Area of Potential Impact
CCR	California Code of Regulations
CHRIS	California Historical Resources Information System
City	City of Antioch
CEQA	California Environmental Quality Act
CRHR	California Register of Historical Resources
NAHC	Native American Heritage Commission
NWIC	Northwest Information Center
PRC	Public Resources Code
SLF	Sacred Lands File
Stantec	Stantec Consulting, Inc.
TCR	Tribal Cultural Resources

Executive Summary

Stantec Consulting Services Inc. (Stantec) prepared this cultural resources inventory on behalf of the City of Antioch for the proposed Mt. Diablo Resources Recovery Maintenance Facility Project. This study, conducted in September 2020, includes the results of a record search, desktop review of available literature, Native American outreach and consultation, and a pedestrian archaeological field survey. The pedestrian survey was performed by Stantec archaeologist Katherine Holst. Stantec archaeologist Leven Kraushaar, who meets the Secretary of the Interior's Standards and Guidelines for Archaeology (36 Code of Federal Regulations [CFR] Part 61), prepared this report. No previously recorded cultural resources were identified within the Area of Potential Impact (API) during the record search, literature review, and Native American consultation. A portion of a rail line (P-07-000806/CA-CCO-732H) previously evaluated as not eligible for listing on the National Register of Historic Places (NRHP) or the California Register of Historical Resources (CRHR), was identified within the API during the survey. No other resources were recorded. The Project is therefore not expected to impact cultural resources.

1.0 PROJECT LOCATION AND DESCRIPTION

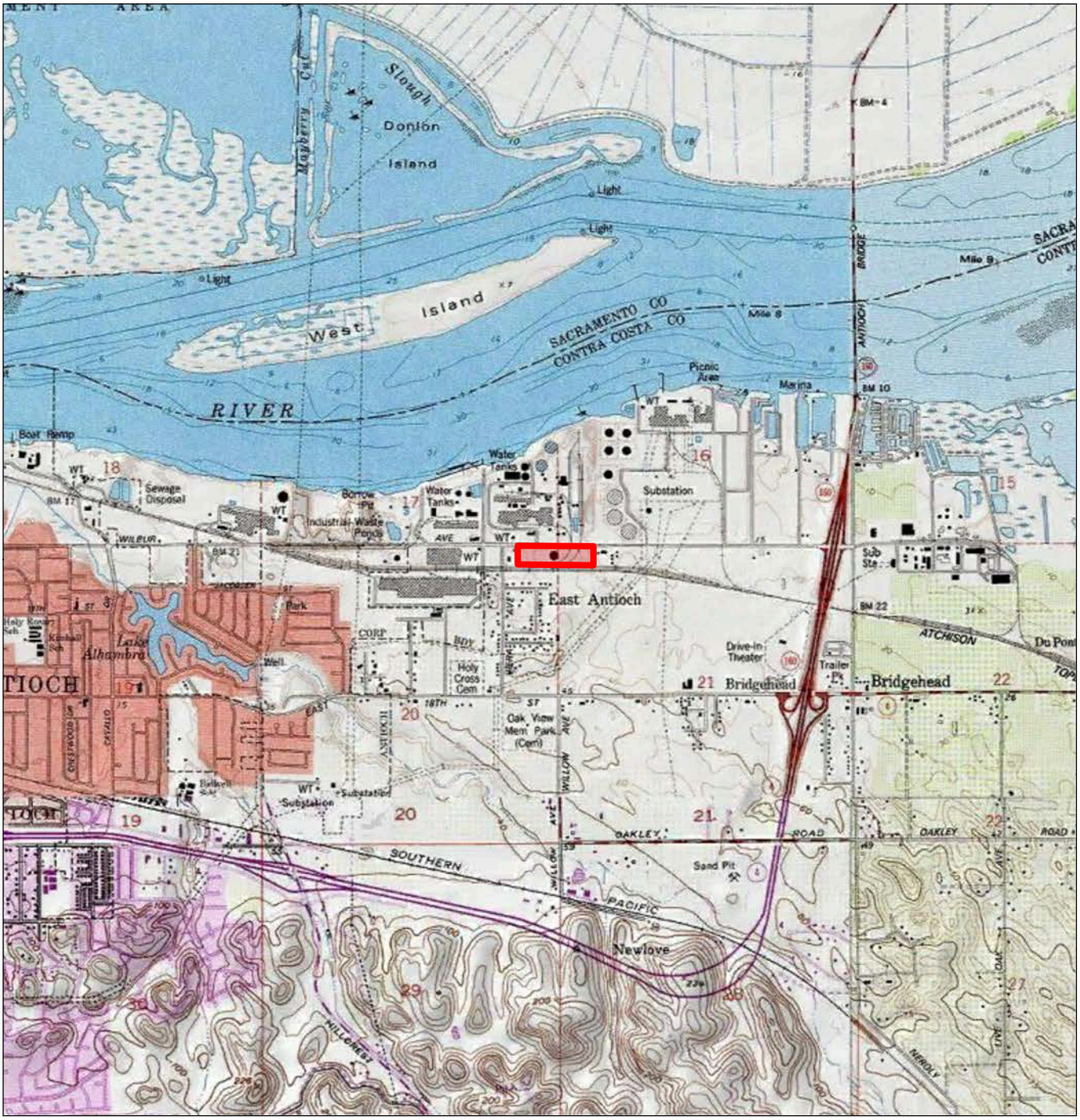
The City of Antioch proposes the Mt. Diablo Resource Recovery Maintenance Facility Project (Project) in the City of Antioch, Contra Costa County, California (Figure 1). The Project consists of the construction of a truck maintenance facility on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue. The Project site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

The Project will proceed in three phases:

- Phase I proposes establishing a conditional use permit to allow a truck terminal facility land use designation over the entire parcel. Initially, the existing structure would be used as an interim truck maintenance facility and approximately 3.5 acres of the property would be used for truck and employee parking. A fueling island and wash station would also be built on the site.
- Phase II proposes the construction of a new maintenance facility on the western portion of the property, including an approximately 18,000 square foot metal building with 15,000 square feet of service bays and 3,000 square feet of office space, dispatch offices, restrooms, break rooms, locker rooms, and parts storage.
- Phase III proposes the construction of additional improvements on the western portion of the property to facilitate additional operations and provide vehicle and equipment storage.

Area of Potential Impacts

The Project Area of Potential Impacts (API) encompasses all areas of potential ground disturbance, including excavation, access, and staging and layout areas. Vertical disturbances, such as may be required for excavations for building foundations and the construction of associated underground utilities, are also considered within the API. The total area of the API is approximately 10.28 acre (Figure 2).





Project Location

0.0 0.5 1.0
Miles
(At original document size of 8.5x11)

N

Stantec

Project Location
Contra Costa County, CA

Prepared by LK on 2020-09-17
TR by AR on 2020-09-17

Client/Project
City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Figure No.
1

Title
Project Location & Vicinity

Revised: 2020-09-17 By: lkraushaar

V:\1857\Active\185705125\01_management\proposal\From_Resource_Leads\Cultural

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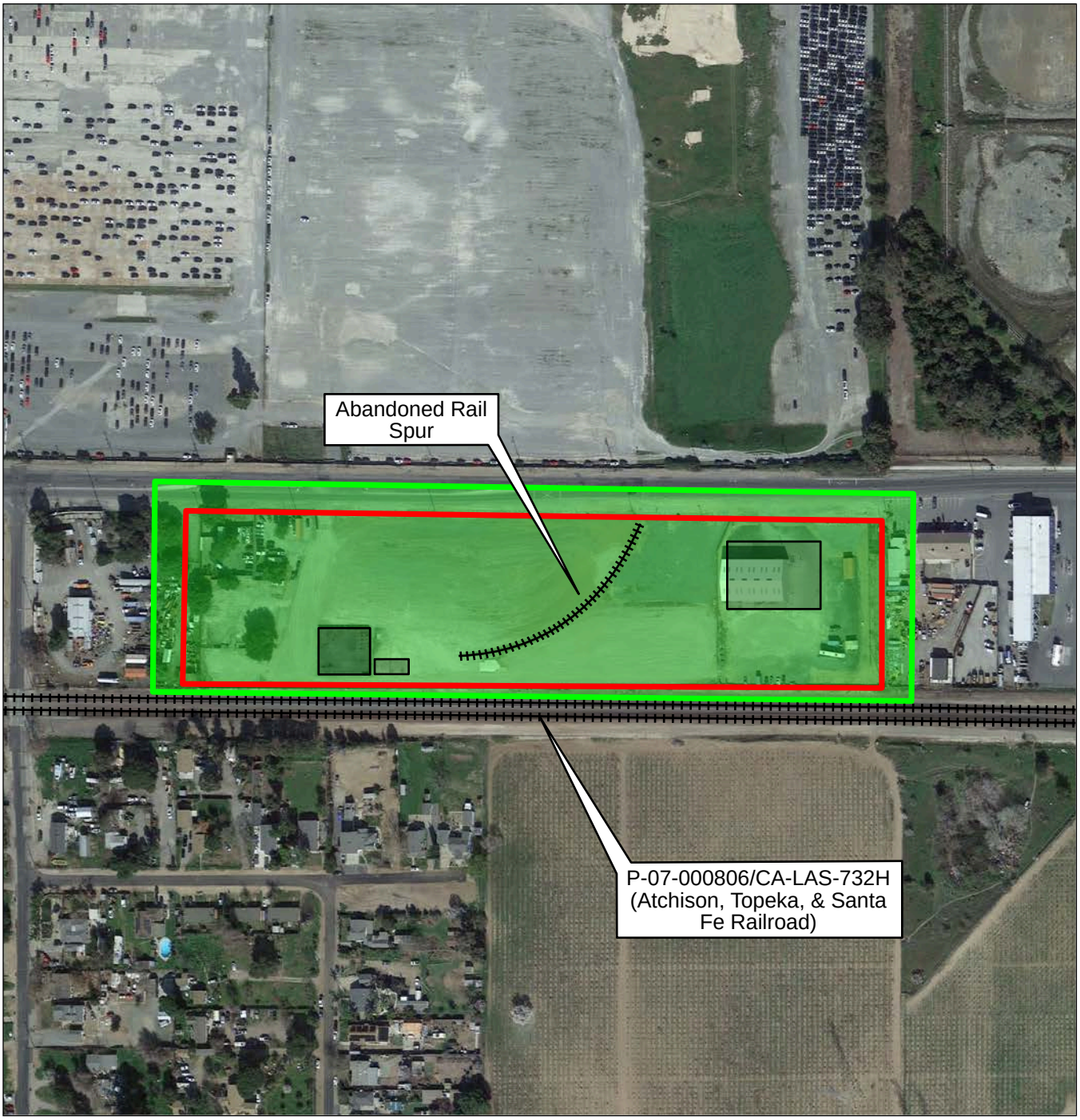



Area of Potential Impact

Survey Coverage

Railroad Tracks

Poured Concrete Slabs

0 250 500
Feet
(At original document size of 8.5x11)

N

Stantec

Project Location
Contra Costa County, CA

Prepared by LK on 2020-09-17
TR by AR on 2020-09-17

Client/Project
City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Figure No.
2

Title
Survey Coverage & Findings

Revised: 2020-09-17 By: lkraushaar

V:\18857\Active\185705125\01_management\proposal\From_Resource_Leads\Cultural

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

2.0 REGULATORY CONTEXT

This cultural resources inventory was conducted to satisfy the requirements of the California Environmental Quality Act (CEQA) of 1970 as amended and the CEQA Guidelines, codified in Title 14 of the California Code of Regulations (CCR), which provides agencies guidance for compliance with environmental regulations. The Project requires a conditional use permit to allow for the truck terminal facility. The Project is therefore subject CEQA requirements with the City of San Antioch acting as the Lead Agency.

2.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT

Historical and archaeological resources are afforded consideration and protection by CEQA (14 CCR Section 21083.2, 14 CCR Section 15064). CEQA Guidelines define significant cultural resources under two regulatory designations: historical resources and unique archaeological resources.

A historical resource is a “resource listed in, or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (CRHR);” or “a resource listed in a local register of historical resources or identified as significant in a historical resource survey meeting the requirements of Section 5024.1(g) of the Public Resources Code (PRC);” or “any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California, provided the agency’s determination is supported by substantial evidence in light of the whole record” (14 CCR Section 15064.5[a][3]).

Historical resources automatically listed in the CRHR include California cultural resources listed in or formally determined to be eligible for the National Register and California Historical Landmarks list from No. 770 onward (PRC 5024.1[d]). Locally listed resources are entitled to a presumption of significance unless a preponderance of evidence in the record indicates otherwise.

Under CEQA, a resource is generally considered historically significant if it meets the criteria for listing in the CRHR.

2.2 ASSEMBLY BILL 52 AND TRIBAL CULTURAL RESOURCES

Assembly Bill (AB) 52 establishes a formal role for California Native American tribes in the CEQA process. CEQA lead agencies are required to consult with tribes about potential Tribal Cultural Resources (TCR) in the project area, the potential significance of project impacts, the development of project alternatives, and the type of environmental document that should be prepared.

3.0 CULTURAL SETTING

3.1 PREHISTORIC AND ETHNOGRAPHIC OVERVIEW

The Project is within the traditional tribal territory of the Bay Miwok, or *Saclan*, one of the five linguistic divisions of Eastern Miwok peoples (Levy 1978; Kroeber 1925; Map 1). Linguistic evidence suggests that the Eastern Miwok have inhabited the region for a long period of time, perhaps as early as the Middle Horizon of California prehistory (4,000 to 1,500 year before present) (Levy 1978; Breschini 1983). Around the time of European contact, the Bay Miwok occupied the eastern portions of Contra Costa County from Walnut Creek to the Sacramento-San Joaquin Delta (Levy 1978).

The foremost political unit of the Bay Miwok was the tribelet, an independent nation with defined geographical boundaries. Within their territory, each tribelet occupied one or more semi-permanent settlements and several seasonally occupied camps. Members of the tribelet moved between camps to fish, hunt, and gather resources as they became locally available (Levy 1978). The nearest ethnographically recorded villages, *Julpun* and *Ompin*, were located approximately 1.75 miles north-northeast and 4.45 miles north-northwest of the API, respectively (Bennyhoff 1977); however, knowledge of individual tribelets and settlement locations is fragmentary due to rapid depopulation and relocation occurring throughout the 19th century (Levy 1978).

Within villages and camps, Miwok structures at lower elevations usually consisted of conical frames thatched with brush, grass, or tules (*Schoenoplectus acutus and californicus*). Larger semisubterranean and circular brush structures were also constructed for communal use at village sites, and granaries were built for the storage of gathered food, primarily acorns from several types of oak (*Quercus spp.*) (Levy 1978). The Miwok also collected buckeye (*Aesculus californica*), hazelnut (*Corylus cornuta*), and pine nuts from digger pine (*Pinus sabiniana*) and sugar pine (*Pinus lambertiana*). A wide variety of seeds were also collected when available. Important terrestrial animal foods included mule deer (*Oedocoileus hemionus*), tule elk (*Cervuus nannodes*), and pronghorn antelope (*Antilocapra americana*). Salmon and trout (*Oncorhynchus spp.*), sturgeon (*Acipenser transmontanus*), and lamprey (*Lampetra tridentata*) were also important food species for all divisions of the Eastern Miwok (Levy 1978), and would have been especially important for indigenous peoples in the vicinity of the API due to local environmental conditions and the proximity of wetlands (Tang 2009).

After initial contacts with Spanish explorers, the Bay Miwok were among the first indigenous people to be gathered into the Spanish missions. Subsequent influxes of Euro-Americans drove many of the remaining native inhabitants to hide in the delta, and later conflicts ended with the confiscation of Miwok lands by the United States government. Miwok populations, estimated to have been around 19,500 in 1808, rapidly declined to around 670 by 1910 (Cook 1943).

3.2 HISTORIC OVERVIEW

The historic period in Contra Costa County begins with the earliest incursions of Spanish explorers. The first of these expeditions to pass through the Antioch area was led by Don Pedro Fages and Padre Juan Crespi in 1772. Following favorable reports by early explorers, a series of 21 Spanish missions were founded throughout California, the nearest of which, Mission San Jose de Guadalupe in Fremont, is approximately 33 miles southwest of the API.

After Mexico obtained independence from Spain in 1821, the Mexican government divided former mission lands into large land grants known as *ranchos* and transferred ownership to private individuals. The API is not located within one of these former Mexican land grants. The nearest rancho, Los Medanos, is approximately 1.85 miles west of the (Beck and Haas 1974), and no development associated with Los Medanos appears to have occurred in the Project vicinity.

With the signing of the Treaty of Guadalupe Hidalgo at the conclusion of the Mexican-American War in 1848, Mexico was forced to cede California to the United States. Soon after, two of the earliest American settlers, the Smith brothers, arrived. The brothers bought land near Antioch from John Marsh to establish Smith's Landing, an outpost providing supplies and services to gold miners. The City of Antioch was founded soon after in 1850 to 1851 and incorporated in 1872, becoming the oldest city in Contra Costa County (Tang 2009).

Coal was discovered south of Antioch in the 1850s, and the area's coal mining industry briefly flourished (City of Antioch 2009). Through the 1860s and 1870s, however, grain production overtook coal to become the foundation of the local economy. Railroads, originally built to support coal mining, arrived in 1878, ultimately contributing to the expansion of the agricultural sector and supporting industrial development in the region (City of Antioch 2009). The general economic boom experienced during and after World War II spurred large-scale growth in Antioch, and the development of the US highway system and the expansion of deep-water shipping continued to support economic and population growth through the mid-20th century and to the present day (City of Antioch 2009).

4.0 METHODS AND FINDINGS

4.1 NATIVE AMERICAN CONSULTATION

On September 17, 2020, Stantec sent an email with a Project description and a map depicting the API to the Native American Heritage Commission (NAHC) requesting a review of the Sacred Lands File (SLF) for Native American cultural resources that might be affected by the Project. The NAHC responded on September 18, 2020 stating that no sacred sites or TCRs had been identified within the API.

The NAHC provided a list of thirteen (13) Native American individuals and organizations to contact for additional information about TCRs in the Project vicinity:

- Irene Zwierlein (Chairperson, Amah Mutsun Tribal Band of Mission San Juan Bautista)
- Merlene Sanchez (Chairperson, Guidiville Indian Rancheria)
- Ann Marie Sayers (Chairperson, Indian Canyon Mutsun Band of Costanoan)
- Kanyon Sayers-Roods (MLD Contact, Indian Canyon Mutsun Band of Costanoan)
- Monica Arellano (Muwekma Ohlone Indian Tribe of the SF Bay Area)
- Katherine Erolinda Perez (Chairperson, North Valley Yokuts Tribe)
- Timothy Perez (MLD Contact, North Valley Yokuts Tribe)

- Andrew Galvan (The Ohlone Indian Tribe)
- Jesus Tarango (Chairperson, Wilton Rancheria)
- Ralph Hatch (Cultural Preservation Department, Wilton Rancheria)
- Antonio Ruiz (Cultural Resources Officer, Wilton Rancheria)
- Dahlton Brown (Director of Administration, Wilton Rancheria)
- Corrina Gould (Chairperson, The Confederated Villages of Lisjan)

Stantec sent certified letters to each of the individuals and organizations identified by the NAHC on October 1, 2020. The letters contained a description of the Project and Project location, a map of the Project area, and an invitation to consult on the Project. Follow up phone calls were made to each contact on October 22, 2020. At that time, Chairperson Zwierlein recommended providing cultural sensitivity training to construction personnel prior to the commencement of Project activities and having an archaeologist assess any potential resources identified during construction. On November 2, 2020, a description of the Project description and invitation to consult were sent to all remaining contacts. As of November 2, 2020, no additional responses have been received. All documents related to Native American outreach and consultation can be found in Appendix A.

4.2 RECORD SEARCH AND DESKTOP REVIEW

Professional research staff at the Northwest Information Center (NWIC) of the California Historical Resources Information Center (CHRIS) at Sonoma State University, Rohnert Park conducted a search of all available records for the API and a 0.25-mile buffer around the API on September 17, 2020 (NWIC file no. 20-0515). The search also included a review of the Office of Historic Preservation's California Historical Landmarks database, the National Register of Historic Places, and available historic topographic maps, Bureau of Land Management General Land Office plat maps, and aerial photographs.

Four cultural resources studies have been conducted within the API. An additional thirteen (13) studies were identified within 0.25-mile of the API (Table 1).

Table 1. Previous Cultural Resources Studies Within 0.25-Mile of the API

Study Number	Author	Year	Title	Location
S-11826	Theodoratus, Dorothy J., Mary Pyle Peters, Clinton M. Blount, Pamela J. McGuire, Richard D. Ambrose, Michael Christ, Billy J. Peck, and Myrna Saxe	1980	Montezuma I and II Cultural Resources	API
S-13797	Holman, Miley P.	1991	Archaeological Field Inspection of the APC Project Area, Antioch, Contra Costa County, California	API
S-30387	Tang, "Tom" Bai, Michael Hogan, Josh Smallwood, and Terri Jacquemain	2005	Historical Resources Compliance Report, Burlington Northern Santa Fe Railway Double Track Project (Segment 2), Oakley (MP 1146.1) to Port Chicago (MP 1164.4), In and Near the Cities of Oakley, Antioch, and Pittsburg, and the Port Chicago Naval Weapons Station, Contra Costa County, California	API

Study Number	Author	Year	Title	Location
S-35861	Tang, “Tom” Bai	2009	Historic Property Survey Report, Proposed Undertaking to Upgrade the Capacity of the Burlington Northern Santa Fe (BNSF) Railway's Mainline from Mile Post (MP) 1146.1 to MP 1164.4, Between the City of Oakley and the Port Chicago Naval Weapons Station in Contra Costa County	API
S-18440	West, G. James, and Patrick Welch	1996	Class II Archaeological Survey of the Contra Costa Canal, Contra Costa County, California	0.25-mile buffer
S-22464	Jones and Stokes Associates, Inc.	1999	Cultural Resource Inventory Report for the Williams Communications, Inc. Fiber Optic Cable System Installation Project, Pittsburg to Sacramento, California	0.25-mile buffer
S-23665	Quivik, Fredric L.	2000	Determination of Eligibility for the Contra Costa Power Plant	0.25-mile buffer
S-23674	Moratto, Michael J., Richard M. Pettigrew, Barry A. Price, Lester A. Ross, Randall F. Schalk, Rick Atwell, Andrew Bailey, Gary Bowyer, Robert U. Bryson, Tim Canaday, Dianne Gardner, William Hildebrandt, Kurt T. Katsura, Clayton G. Lebow, Pat Mikkelsen, Scott Mumma, Lynda Sekora, Nancy D. Sharp, Craig Skinner, Lou Ann Speulda, Sharon Waechter, and Judith A. Willig	1994	Archaeological Investigations, PGT-PG&E Pipeline Expansion Project, Idaho, Washington, Oregon, and California: Volume 1 Project Overview, Research Design and Archaeological Inventory	0.25-mile buffer
S-24015	Ashkar, Shahira	2001	Cultural Resource Inventory Report for the Montezuma Enhancement Site, Southern Energy's Multispecies Habitat Conservation Plan for Pittsburg and Contra Costa Power Plants, Solano and Contra Costa Counties, California	0.25-mile buffer
S-27049	St. Clair, Michelle, and John Holson	2003	Archaeological Survey Report for the Delta Diablo Sanitation District Bridgehead Improvements Project, City of Antioch, Contra Costa County	0.25-mile buffer
S-29311	Dalldorf, Graham	2004	Letter Report of Archaeological Consultation for the Black Liquor Pond, East Mill Site, Gaylord Container Company, 2603 Wilbur Avenue, Antioch, California	0.25-mile buffer
S-30579	Busby, Colin I.	2004	Cultural Resources Report, Delta Energy Center Site (DEC) and Associated Linears, Cities of Pittsburg and Antioch, Contra Costa County, California, California Energy Commission (CEC), Project 98-AFC-3C	0.25-mile buffer
S-34412	Wohlgemuth, Eric	2005	Archaeological Reconnaissance of the Pacific Gas and Electric Company 230 kV Delta Transmission Line Reconductoring Project, Solano, Sacramento, and Contra Costa Counties, California	0.25-mile buffer
S-36622	Siskin, Barbra, Cassidy DeBaker, and Jennifer Lang	2008	Cultural Resources Investigation and Architectural Evaluation for the Contra Costa to Las Positas Reconductoring of the 230 kV Transmission Line, Contra Costa County and Alameda County, California	0.25-mile buffer
S-38392	Whitaker, Adrian	2010	PG&E Contra-Costa to Moraga Reconductoring Project	0.25-mile buffer
S-44292	Beck, Karin, Mark Hale, and Ben Elliott	2013	Cultural Resource Report, California Energy Commission Condition of Certification CUL-4, Contra Costa County, California (08-AFC-3C)	0.25-mile buffer
S-46909	Rahimi-Fike, Aisha	2015	Delta Diablo Recycled Water System Expansion Project, Historical Resources Inventory and Evaluation Report, Contra Costa County, California	0.25-mile buffer

The record search did not identify any previously recorded resources within the API. Four (4) historic-period resources were identified within 0.25-mile of the API (Table 2).

Table 2. Previously Recorded Cultural Resources Within 0.25-Mile of the API

Primary Number	Trinomial	Age	Resource Name	Location
P-07-000806	CA-CCO-732H	Historic-Period	Atchison, Topeka, and Santa Fe Railroad	0.25-mile buffer
P-07-000853	n/a	Historic-Period	Contra Costa Power Plant	0.25-mile buffer
P-07-002951	n/a	Historic-Period	Contra Costa Las Positas Transmission Line	0.25-mile buffer
P-07-004688	n/a	Historic-Period	Contra Costa-Moraga Transmission Line	0.25-mile buffer

4.3 FIELD METHODS

On September 25, 2020, Stantec archaeologist Katherine Holst conducted a pedestrian survey of the API to identify and record any potential cultural resources within the study area (see Figure 2). The entire parcel and all accessible areas within 50 feet of the parcel were surveyed in north-south oriented transects spaced at approximately 15 meters. Observations were recorded in written field notes and digital photographs.

All exposed surfaces were examined for evidence of prehistoric or historic-period archaeological sites or buried cultural deposits. Evidence of prehistoric deposits may include, but is not limited to, changes in soil color and texture, carbon, ash, stone tools (e.g. projectile points, scrapers, and knives), fire affected rock, and fragments of bone, shell, and flaked or ground stone. Evidence of historic-period resources may include, but is not limited to, alignments of stone or brick, foundation elements, earthworks, cans with soldered seams, and fragments of ceramic, glass, metal, and brick. The presence of certain plants (e.g. fruit and nut trees and ornamental plants) may also indicate historic-period activities. No subsurface testing was undertaken during the current survey; however, all areas of recent disturbance, such as from rodent activity and vehicle ruts, were closely examined.

4.3.1 Survey Results

The lot is located at 2600 Wilbur Avenue, Antioch, Contra Costa, California. It is roughly rectangular, oriented east to west between Wilbur Avenue and the Southern Pacific/Union Pacific and Burlington Northern-Santa Fe railroad tracks. A fifty-foot buffer was surveyed at the west and east ends of the property. The northern edge of the property was surveyed to the edge of the paved surface of Wilbur Avenue. Areas outside of the API to the south were surveyed to the edge of the railroad. The railroad alignment was not fully surveyed due to safety concerns. Ballast and tracks are intact, and the line appears active.

Surfaces within the yard have mainly been graded and covered with imported angular and subangular ¾-inch gravel. Modern structures, including one large warehouse, two sheds, freight boxes, and fenced staging areas are present at the site. Several poured concrete slabs of various sizes were also observed, including those under or adjacent to existing structures. The concrete slabs associated with existing structures appear to have been recently constructed. The remaining slabs are of indeterminate age but are likely associated with modern development based on the materials present.

Where observed at the surface, native soils consist of tan/buff to brown loam with light vegetation. Modern refuse is sparsely scattered across the site. Fragments of green, brown, colorless, amber, cobalt, and amethyst glass were

also observed scattered sparsely across the surface of the API. While cobalt and amethyst glass are historic-period materials, the fragments present within the API appear to have been introduced with imported gravels and/or mechanically spread across the site during grading. These materials likely do not represent intact historic-period deposits.

One curved section of railroad track bisects the site. The track section appears to be a remnant of a rail spur that previously provided access to the main line (P-07-000806/CA-CCO-732H) from the parcel and areas north of the site. The southwestern portion of the rail spur has been removed, and the connection to the main line has been terminated (see Figure 2). The rail spur is part of the rail network associated with P-07-000806/CA-CCO-732H, the Atchison, Topeka, and Santa Fe Railroad. The entire line has been determined ineligible for the NRHP or the CRHR. The spur is therefore not a historical resource for the purposes of CEQA.



Photograph 1: Facing west, overview of the yard entrance from Wilbur Avenue.



Photograph 2: Facing east, overview of the yard entrance from Wilbur Avenue.



Photograph 3: Facing northwest, the main gate east of existing facilities.



Photograph 4: Facing north, primary existing structure.



Photograph 5: Facing southeast, shipping containers on the east side of the parcel.



Photograph 6: Facing southeast, utility pole in the southeast corner of the parcel with historic-period transmission line (background) outside of the API.



Photograph 7: Facing north, overview of moderately undisturbed soils on east side of parcel.



Photograph 8: Facing west, overview of a section of corrugated sheet metal wall on the southern edge of the parcel.



Photograph 9: Facing north, tracks on a disconnected railroad spur entering the API from Wilbur Avenue.



Photograph 10: Facing southeast, tracks extending through the yard along the abandoned spur.



Photograph 11: Facing southwest, detail of tracks and intact wooden ties.



Photograph 12: Facing east, west terminus of the railroad spur within the yard.



Photograph 13: Facing west, existing concrete pad on the west side of the yard.



Photograph 14: Facing southwest, utility pole in southwest corner of parcel.



Photograph 15: Facing southeast, railroad ties in the corner of a fenced area in the southeast corner of the parcel.



Photograph 16: Facing north, one oak tree between two fenced areas in the west end of the parcel.



Photograph 17: Facing west, a small oak stand in west end of the parcel with vehicles associated with a neighboring private towing company.



Photograph 18: Facing east, overview of the western entrance to the parcel from Wilbur Avenue with historic-period steel lattice transmission line structures visible in background outside of the API.



Photograph 19: Facing east, railroad tracks parallel to the south edge of the API from Viera Avenue.

5.0 SUMMARY AND CONCLUSIONS

A record search, literature review, Native American outreach and consultation, and pedestrian survey were completed as part of this study. The records search did not identify any cultural resources in the API. A rail spur was identified during the survey. The spur is associated with P-07-000806/CA-CCO-732H (Atchison, Topeka, and Santa Fe Railroad), which has been determined to be ineligible for listing on the NRHP or CRHR. The railroad is therefore not considered a resource for the purposes of CEQA and does not require further management consideration. No additional prehistoric or historic-period cultural resources were identified during the archaeological pedestrian survey. Due to the high levels of previous disturbance, no intact cultural resources will likely be impacted by Project activities.

5.1 INADVERTENT DISCOVERY

There is always a possibility that subsurface archaeological deposits exist in the Project area since archaeological sites may be buried and show no surface manifestation. Prehistoric resources include, but are not limited to, chert or obsidian flakes; projectile points; mortars; pestles; and dark friable soil containing bone dietary debris, heat-affected rock, or human burials. Historic resources may include stone or adobe foundations or walls; structures and remains with square nails; and refuse deposits or bottle dumps, which are often located on the surface or in old wells or privies.

Stantec recommends that if previously unidentified cultural resources are encountered during Project implementation, altering the materials and their context shall be avoided. A professional archaeologist shall be contacted to evaluate the nature of the find within 24 hours of the discovery. A 50-foot buffer shall be put around the discovery, and Project personnel should not collect, move, or touch cultural resources until the assessment can be made.

5.2 HUMAN REMAINS

Section 7050 of the California Health and Safety Code states that it is a misdemeanor to knowingly disturb a human burial. Although unlikely, if human remains are encountered, all work must stop in the immediate vicinity of the discovered remains. The Humboldt County Coroner and a qualified archaeologist must be notified immediately so that an evaluation can be performed (PRC 7050). If the remains are deemed to be prehistoric or Native American, the Coroner must contact the NAHC so that a “Most Likely Descendant” can be designated and to provide further recommendations regarding treatment of the remains.

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APPENDICES

Appendix A NATIVE AMERICAN CONSULTATION DOCUMENTS

Native American Outreach Correspondence* Record for the City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project			
Contact & Affiliation	**Date of Contact**	**Method of Contact**	**Description**
NAHC	09/17/2020	Email	A description of the Project and the Project location were sent to the NAHC along with a Sacred Lands File Search and Native American Contacts List Request Form.
	09/18/2020	Email	The NAHC responded with negative search results and a list of thirteen (13) Native American organizations for further consultation.
Irenne Zwierlein, Chairperson Amah Mutsun Tribal Band of Mission San Juan Bautista	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	Ms. Zwierlein answered a call placed to the number provided by the NAHC. She recommended that sensitivity training be provided to construction personnel prior to construction and that an archaeologist assess any potential cultural resources encountered during construction.
Merlene Sanchez, Chairperson Guidiville Indian Rancheria	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. A voice message with Project information, a contact phone number, and a request for a comment was left in the Tribal voicemail box.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Anne Marie Sayers, Chairperson Indian Canyon Mutsun Band of Costanoan	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. A voice message with Project information, a contact phone number, and a request for a comment was left in the Tribal voicemail box.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Kanyon Sayers-Roods Indian Canyon Mutsun Band of Costanoan	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. A voice message with Project information, a contact phone number, and a request for a comment was left in the Tribal voicemail box.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Monica Arellano Muwekma Ohlone Indian Tribe of the San Francisco Bay Area	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. The Tribal voicemail box was full.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Katherine Perez, Chairperson North Valley Yokuts Tribe	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. A voice message with Project

Native American Outreach Correspondence* Record for the City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project			
Contact & Affiliation	**Date of Contact**	**Method of Contact**	**Description**
			information, a contact phone number, and a request for a comment was left in the Tribal voicemail box.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Timothy Perez, MLD Contact North Valley Yokuts Tribe	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. The Tribal voicemail box was full.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Corrina Gould, Chairperson The Confederated Villages of Lisjan	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. A voice message with Project information, a contact phone number, and a request for a comment was left in the Tribal voicemail box.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Dahlton Brown, Director of Administration Wilton Rancheria	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. A voice message with Project information, a contact phone number, and a request for a comment was left in the Tribal voicemail box.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Antonio Ruiz, Cultural Resources Officer Wilton Rancheria	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. A voice message with Project information, a contact phone number, and a request for a comment was left in the Tribal voicemail box.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Ralph Hatch, Cultural Preservation Department Wilton Rancheria	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. A voice message with Project information, a contact phone number, and a request for a comment was left in the Tribal voicemail box.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
Jesus Tarango, Chairperson Wilton Rancheria	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.

Native American Outreach Correspondence* Record for the City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project			
Contact & Affiliation	**Date of Contact**	**Method of Contact**	**Description**
Andrew Galvan The Ohlone Indian Tribe	10/22/2020	Telephone	A call placed to the number provided by the NAHC went unanswered. A voice message with Project information, a contact phone number, and a request for a comment was left in the Tribal voicemail box.
	11/02/2020	Email	An email was sent to the address provided by the NAHC. The email included a Project description, contact information, and an invitation to consult on the Project.
	10/01/2020	Certified Letter	A certified letter was sent to the address provided by the NAHC inviting the Tribe to consult on the Project. A Project description and location maps were included.
	11/01/2020	Email	An email with a Project description and location map was sent to Mr. Galvan. Mr. Galvan has identified e-mail as his preferred method of contact. In accordance with his wishes, no follow-up phone call was made.

*Correspondence was conducted by Stantec Archaeologist Leven Kraushaar, MA.

Kraushaar, Leven

From: Kraushaar, Leven
Sent: Thursday, September 17, 2020 2:31 PM
To: nahc@nahc.ca.gov
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility
Attachments: mt_diablo_truck_facility_20200917-b.kmz; Sacred-Lands-File-NA-Contact-Form_MtDiablo.pdf; mt_diablo_truck_facility_fig_1_location_&_vicinity_20200917_reduced.pdf

Good morning,

Stantec Consulting Services, Inc. is preparing a cultural resources inventory for the proposed City of Antioch Resource Recovery Maintenance Facility Project. We are requesting a search of the Sacred Lands File and a list of Native American contacts for the project area. The project is centered at approximately Lat./Long. 38.011680°, -121.769198° and can be found in Township T2N, Range R2E, Sections 20 and 21 on the Antioch North, CA USGS quadrangle map. A map and KMZ of the project location are attached as well as a Sacred Lands File and Native American Contacts List Request form. Please feel free to contact me if you need any additional information.

Thank you,
Leven

Leven Kraushaar MA
Archaeologist

Stantec
1383 North McDowell Blvd., Ste. 250
Petaluma, CA 94954
(707) 318-8233
Cell: (707) 835-3630
leven.kraushaar@stantec.com

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility

County: Contra Costa County

USGS Quadrangle Name: Antioch North, CA

Township: T2N Range: R2E Section(s): S20 & S21

Company/Firm/Agency: Stantec Consulting Services, Inc.

Street Address: 1383 North McDowell Boulevard, Ste. 250

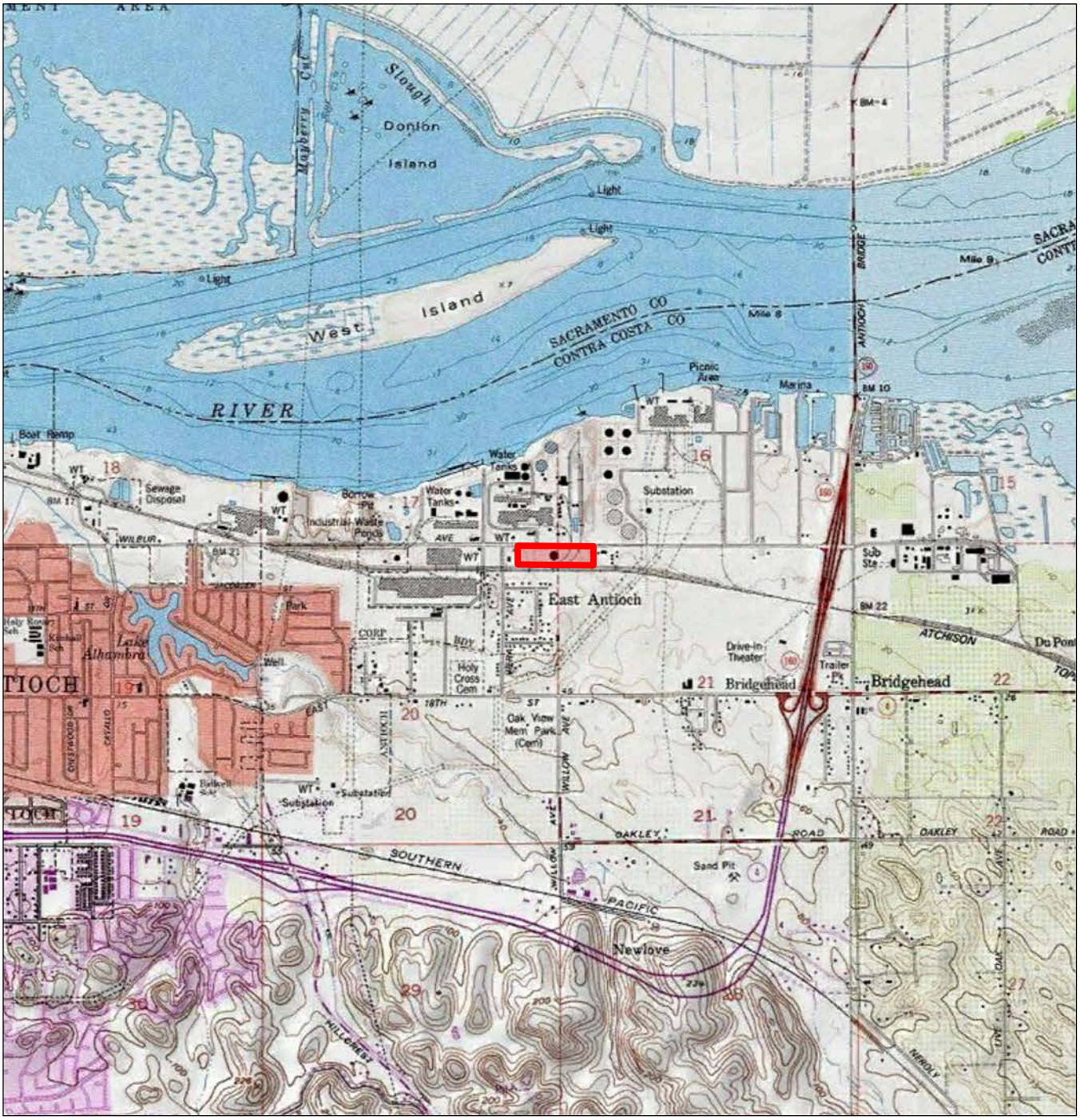
City:Petaluma, CA Zip: 94954

Phone: (707) 318-8233

Fax n/a

Email: Leven.Kraushaar@stantec.com

Project Description: Stantec is preparing a cultural resources inventory for the construction of the Mt. Diablo Resource Recovery Maintenance Facility.





Project Location

0.0 0.5 1.0
Miles
(At original document size of 8.5x11)

N

Stantec

Project Location
Contra Costa County, CA

Prepared by LK on 2020-09-17
TR by AR on 2020-09-17

Client/Project
City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Figure No.
1

Title
Project Location & Vicinity

Revised: 2020-09-17 By: lkraushaar

V:\1857\Active\185705125\01_management\proposal\From_Resource_Leads\Cultural

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

NATIVE AMERICAN HERITAGE COMMISSION

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Reginald Pagaling
Chumash

SECRETARY
Merri Lopez-Keifer
Luiseño

PARLIAMENTARIAN
Russell Attebery
Karuk

COMMISSIONER
Marshall McKay
Wintun

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Julie Tumamait-Stenslie
Chumash

COMMISSIONER
[**Vacant**]

COMMISSIONER
[**Vacant**]

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

September 18, 2020

Leven Kraushaar, MA, Archaeologist
Stantec Consulting, Inc.

Via Email to: leven.kraushaar@stantec.com

Re: City of Antioch, Mt. Diablo Resource Recovery Maintenance Facility Project, Contra Costa County

Dear Mr. Kraushaar:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Sarah.Fonseca@nahc.ca.gov.

Sincerely,

Sarah Fonseca
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Contra Costa County
9/18/2020

Amah MutsunTribal Band of Mission San Juan Bautista
Irenne Zwierlein, Chairperson
789 Canada Road — Costanoan
Woodside, CA, 94062
Phone: (650) 851 - 7489
Fax: (650) 332-1526
amahmutsuntribal@gmail.com

Guidiville Indian Rancheria
Merlene Sanchez, Chairperson
P.O. Box 339 — Pomo
Talmage, CA, 95481
Phone: (707) 462 - 3682
Fax: (707) 462-9183
admin@guidiville.net

Indian Canyon Mutsun Band of Costanoan
Ann Marie Sayers, Chairperson
P.O. Box 28 — Costanoan
Hollister, CA, 95024
Phone: (831) 637 - 4238
ams@indiancanyon.org

Kanyon Sayers-Roods, MLD Contact
1615 Pearson Court — Costanoan
San Jose, CA, 95122
Phone: (408) 673 - 0626
kanyon@kanyonkonsulting.com

Muwekma Ohlone Indian Tribe of the SF Bay Area
Monica Arellano,
20885 Redwood Road, Suite 232 — Costanoan
Castro Valley, CA, 94546
Phone: (408) 205 - 9714
marellano@muwekma.org

North Valley Yokuts Tribe
Katherine Perez, Chairperson
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 887 - 3415 — Yokut
canutes@verizon.net

North Valley Yokuts Tribe
Timothy Perez, MLD Contact
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 662 - 2788 — Yokut
huskanam@gmail.com

The Ohlone Indian Tribe
Andrew Galvan,
P.O. Box 3388 — Bay Miwok
Fremont, CA, 94539 — Ohlone
Phone: (510) 882 - 0527 — Patwin
Fax: (510) 687-9393 — Plains Miwok
chochenyo@AOL.com

Wilton Rancheria
Jesus Tarango, Chairperson
9728 Kent Street — Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
Fax: (916) 683-6015
jtarango@wiltonrancheria-nsn.gov

Wilton Rancheria
Ralph Hatch, Cultural Preservation Department
9415 Rancheria Drive — Miwok
Wilton, CA, 95693
rhatch@wiltonrancheria-nsn.gov

Wilton Rancheria
Antonio Ruiz, Cultural Resources Officer
9728 Kent Street — Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
aruiz@wiltonrancheria-nsn.gov

Wilton Rancheria
Dahlton Brown, Director of Administration
9728 Kent Street — Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
dbrown@wiltonrancheria-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed City of Antioch, Mt. Diablo Resource Recovery Maintenance Facility Project, Contra Costa County.

The Confederated Villages of Lisjan
Corrina Gould, Chairperson
10926 Edes Avenue
Oakland, CA, 94603
Phone: (510) 575 - 8408
cvltribe@gmail.com

Bay Miwok
Ohlone
Delta Yokut

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

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Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Ralph Hatch, Cultural Preservation Department
Wilton Rancheria
9415 Rancheria Drive
Wilton, CA, 95693

Dear Mr. Hatch,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

The City of Antioch proposes the Mt. Diablo Resource Recovery Maintenance Facility Project (Project) in the City of Antioch, Contra Costa County, California. The Project consists of the construction of a truck maintenance facility on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue in Antioch. The Project site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

The Project will proceed in three phases:

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Your name appears on a list of individuals provided by the NAHC who may know more about the cultural resources of the area. Stantec respectfully requests any information you can provide on the location and nature of resources that may be within or immediately adjacent to the Project, especially prehistoric archaeological sites and features, historic-era resources, and any sacred lands or locations of importance or continuing use to the Native American community.

Reference: **City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project**

Any information you have would greatly assist in our efforts to identify all areas of concern. We recognize that the nature and location of these resources is sensitive information and will treat it accordingly.

Please send written comment to me at 1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954, or by email to leven.kraushaar@stantec.com. I can also be reached by phone at (707) 318-8233.

Regards,

Stantec Consulting Services, Inc.

Leven Kraushaar MA
Archaeologist
Phone: (707) 318-8233
Leven.Kraushaar@stantec.com

Attachment: Project Location Map

Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Irenne Zwierlein, Chairperson
Amah Mutsun Tribal Band of Mission San Juan Bautista
789 Canada Road
Woodside, CA 94062

Dear Chairperson Zwierlein,

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Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Jesus Tarango, Chairperson
Wilton Rancheria
9728 Kent Street
Elk Grove, CA, 95624

Dear Chairperson Tarango,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

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Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Kanyon Sayers-Roods, MLD Contact
1615 Pearson Court
San Jose, CA, 95122

Dear Ms. Sayers-Roods,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

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Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Merlene Sanchez, Chairperson
Guidiville Indian Rancheria
P.O. Box 339
Talmage, CA, 95481

Dear Chairperson Sanchez,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

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1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Corrina Gould, Chairperson
The Confederated Villages of Lisjan
10926 Edes Avenue
Oakland, CA, 94603

Dear Chairperson Gould,

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Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Ann Marie Sayers, Chairperson
Indian Canyon Mutsun Band of Costanoan
P.O. Box 28
Hollister, CA, 95024

Dear Chairperson Sayers,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

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Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Dahlton Brown, Director of Administration
Wilton Rancheria
9728 Kent Street
Elk Grove, CA, 95624

Dear Mr. Brown,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

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Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Antonio Ruiz, Cultural Resources Officer
Wilton Rancheria
9728 Kent Street
Elk Grove, CA, 95624

Dear Mr. Ruiz,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

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Stantec Consulting Services, Inc.

Leven Kraushaar MA
Archaeologist
Phone: (707) 318-8233
Leven.Kraushaar@stantec.com

Attachment: Project Location Map

Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Monica Arellano
Muwekma Ohlone Indian Tribe of the SF Bay Area
20885 Redwood Road, Suite 232
Castro Valley, CA, 94546

Dear Ms. Arellano,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

The City of Antioch proposes the Mt. Diablo Resource Recovery Maintenance Facility Project (Project) in the City of Antioch, Contra Costa County, California. The Project consists of the construction of a truck maintenance facility on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue in Antioch. The Project site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

The Project will proceed in three phases:

- Phase I proposes establishing a conditional use permit to allow a truck terminal facility land use designation over the entire parcel. Initially, the existing structure would be used as an interim truck maintenance facility and approximately 3.5 acres of the property would be used for truck and employee parking. A fueling island and wash station would also be built on the site.
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A formal records search performed at the Northwest Information Center of the California Historical Resources Information System did not identify any previously recorded prehistoric cultural resources within the Project area. The results of a search of the Sacred Lands File performed by the Native American Heritage Commission (NAHC) were negative.

Your name appears on a list of individuals provided by the NAHC who may know more about the cultural resources of the area. Stantec respectfully requests any information you can provide on the location and nature of resources that may be within or immediately adjacent to the Project, especially prehistoric archaeological sites and features, historic-era resources, and any sacred lands or locations of importance or continuing use to the Native American community.

Reference: **City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project**

Any information you have would greatly assist in our efforts to identify all areas of concern. We recognize that the nature and location of these resources is sensitive information and will treat it accordingly.

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Attachment: Project Location Map

Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Timothy Perez, MLD Contact
North Valley Yokuts Tribe
P.O. Box 717
Linden, CA, 95236

Dear Mr. Perez,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

The City of Antioch proposes the Mt. Diablo Resource Recovery Maintenance Facility Project (Project) in the City of Antioch, Contra Costa County, California. The Project consists of the construction of a truck maintenance facility on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue in Antioch. The Project site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Attachment: Project Location Map

Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Andrew Galvan
The Ohlone Indian Tribe
P.O. Box 3388
Fremont, CA, 94539

Dear Mr. Galvan,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

The City of Antioch proposes the Mt. Diablo Resource Recovery Maintenance Facility Project (Project) in the City of Antioch, Contra Costa County, California. The Project consists of the construction of a truck maintenance facility on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue in Antioch. The Project site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Attachment: Project Location Map

Stantec Consulting Services, Inc.
1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954

October 1, 2020
File: 185705125

Attention: Katherine Perez, Chairperson
North Valley Yokuts Tribe
P.O. Box 717
Linden, CA, 95236

Dear Chairperson Perez,

Reference: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

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Regards,

Stantec Consulting Services, Inc.

Leven Kraushaar MA
Archaeologist
Phone: (707) 318-8233
Leven.Kraushaar@stantec.com

Attachment: Project Location Map

Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: 'ams@indiancanyon.org'
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Chairperson Sayers,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Sincerely,
Leven

Leven Kraushaar MA
Archaeologist

Stantec
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Petaluma, CA 94954
(707) 318-8233
Cell: (707) 835-3630
leven.kraushaar@stantec.com

Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: kanyon@kanyonkonsulting.com
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Kanyon Sayers-Roods,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Sincerely,
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leven.kraushaar@stantec.com

Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: admin@guidiville.net
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Chairperson Sanchez,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Archaeologist

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leven.kraushaar@stantec.com

Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: cvltribe@gmail.com
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Chairperson Gould,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: dbrown@wiltonrancheria-nsn.gov
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Director Brown,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Archaeologist

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Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: aruiz@wiltonrancheria-nsn.gov
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Mr. Ruiz,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: rhatch@wiltonrancheria-nsn.gov
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Mr. Hatch,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: marellano@muwekma.org
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Monica Arellano,

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Cell: (707) 835-3630
leven.kraushaar@stantec.com

Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:14 AM
To: Andrew Galvan
Subject: Mt. Diablo Resource Recovery Maintenance Facility
Attachments: mt_diablo_185705125_cultural_report_20201001_fig_1.pdf; mt_diablo_185705125_cultural_report_20201001_fig_2.pdf

Andy,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

The Project will proceed in three phases:

- Phase I proposes establishing a conditional use permit to allow a truck terminal facility land use designation over the entire parcel. Initially, the existing structure would be used as an interim truck maintenance facility and approximately 3.5 acres of the property would be used for truck and employee parking. A fueling island and wash station would also be built on the site.
- Phase II proposes the construction of a new maintenance facility on the western portion of the property, including an approximately 18,000 square foot metal building with 15,000 square feet of service bays and 3,000 square feet of office space, dispatch offices, restrooms, break rooms, locker rooms, and parts storage.
- Phase III proposes the construction of additional improvements on the western portion of the property to facilitate additional operations and provide vehicle and equipment storage.

A formal records search was performed at the Northwest Information Center of the California Historical Resources Information System. The records search did not identify any previously recorded prehistoric cultural resources within the project area. The project area was then surveyed by an archaeologist, and no new resources were identified. The results of a Sacred Lands File search performed by the Native American Heritage Commission (NAHC) were also negative, but the NAHC contacts list suggested that you may know more about cultural resources at this location.

Stantec respectfully requests any information you can provide on the location and nature of any cultural resources that may be within or immediately adjacent to the project. Please feel free to contact me with any information or concerns you have regarding the project. Written comment can be sent to me at 1383 North McDowell Boulevard, Suite 250, Petaluma, CA 94954 or by email to leven.kraushaar@stantec.com. I can also be reached by phone at (707) 318-8233.

Sincerely,
Leven

Leven Kraushaar MA
Archaeologist

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Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: 'canutes@verizon.net'
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Chairperson Perez,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Leven

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Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: huskanam@gmail.com
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Mr. Perez,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Sincerely,
Leven

Leven Kraushaar MA
Archaeologist

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Kraushaar, Leven

From: Kraushaar, Leven
Sent: Monday, November 2, 2020 10:40 AM
To: jtarango@wiltonrancheria-nsn.gov
Subject: City of Antioch Mt. Diablo Resource Recovery Maintenance Facility Project

Dear Chairperson Tarango,

The City of Antioch is proposing the Mt. Diablo Resource Recovery Maintenance Facility Project, which may be in your area of concern. The project is on an approximately 10.28-acre parcel located at 2600 Wilbur Avenue and consists of the construction of a truck maintenance facility. The site is currently zoned M2, Heavy Industrial, and is partially improved with an existing 9,600 square foot enclosed warehouse built in 2010 and 10,000 square feet of paved parking surfaces.

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Sincerely,
Leven

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Appendix D GEOTECHNICAL INVESTIGATION

Stevens Ferrone & Bailey Engineering Company, Inc

Geotechnical Engineering
Engineering Geology
Storm Water Management
Construction Observation & Testing Services

January 21, 2020

GEOTECHNICAL INVESTIGATION
SITE DEVELOPMENT AT 2600 WILBUR AVENUE
ANTIOCH, CALIFORNIA
SFB PROJECT NO. 880-1

Prepared For:

Mt Diablo Resource Recovery
P.O. Box 5397
Concord, CA 94524

Prepared By:

Stevens, Ferrone & Bailey Engineering Company, Inc.

Jonathan Bailey, P.E., G.E.
Civil/Geotechnical Engineer

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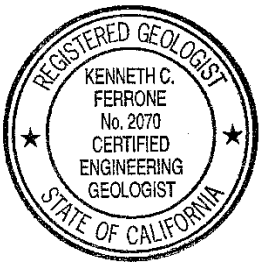
Civil/Geotechnical Engineer
Certified Engineering Geologist







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1.0 INTRODUCTION

This report presents the results of our geotechnical investigation for the proposed commercial building project to be located at 2600 Wilbur Avenue in Antioch, California, as shown on the Site Plan, Figure 1. The purpose of our investigation was to evaluate the geotechnical conditions at the site and provide recommendations regarding the geotechnical engineering aspects of the project.

Based on the information indicated on the Site Plan, as well as information provided by Mr. Bob Hammons of Mt. Diablo Resource Recovery, it is our understanding that the project will consist of developing the site for two at-grade buildings with associated paved truck access driveways and parking areas. Nominal grading is anticipated.

The conclusions and recommendations provided in this report are based upon the information presented above; Stevens, Ferrone & Bailey Engineering Company, Inc. (SFB) should be consulted if any changes to the project occur to assess if the changes affect the validity of this report.

2.0 SCOPE OF WORK

This investigation included the following scope of work:

- Reviewed published and unpublished geotechnical and geological literature relevant to the site;
- Reviewed aerial images of the site and surrounding area;
- Performed a reconnaissance of the site and surrounding area;
- Reviewed the results of eight exploratory borings performed by GeoSolve to maximum exploration depths of about 30 feet;
- Performed a subsurface exploration program to log four Cone Penetrometer Tests (CPTs) as well as log and sample four hand auger exploratory borings;
- Performed laboratory testing of samples retrieved from the borings;
- Performed engineering analysis of the field and laboratory data;
- Performed site specific liquefaction potential analyses; and
- Prepared this report.

The data obtained and the analyses performed were for the purpose of providing geotechnical design and construction criteria for site earthwork, underground utilities, drainage, building foundations, and pavements. Evaluating the potential for flooding and toxicity potential assessment of onsite materials or groundwater (including mold) was beyond our scope of work.

3.0 SITE INVESTIGATION

Reconnaissance of the site and surrounding area were performed by SFB on December 18, 2019. Four Cone Penetrometer Tests (CPTs) as well as four hand auger exploratory borings were performed by SFB on December 23, 2019; the CPTs extended to depths of about 50 feet. Previously, eight exploratory borings were performed by GeoSolve to depths of about 30 feet. The approximate locations of all CPTs and borings are shown on the Site Plan, Figure 1. Logs of our CPTs and borings and details regarding our field investigation are included in Appendix A. The results of our laboratory tests are discussed in Appendix B. The logs of the borings by GeoSolve are included in Appendix C.

It should be noted that changes in the surface and subsurface conditions can occur over time as a result of either natural processes or human activity and may affect the validity of the conclusions and recommendations in this report.

3.1 Surface

At the time of our investigation and as shown on Figure 1, the site was relatively level and was bounded by Wilbur Avenue on the north, a railroad easement with railroad tracks on the south, and commercial developments to the east and west. Numerous storage containers, various vehicles, construction equipment, debris piles, fencing, and pavements existed throughout the site. Portions of the site were paved and unpaved. A large metal building existed in the eastern part of the site and was partially surrounded by concrete and asphalt pavement. Several trees existed in the western part of the site.

3.2 Subsurface

Based on the results of the borings, sandy, gravelly, and clayey fill materials generally blanketed the site to depths varying from about 6 inches to 5-1/2 feet below the ground surface. Outside of the fill material areas, the borings encountered surficial loose to medium dense sands. These surficial fills and soils are heterogenous and have variable compression and expansion characteristics. Underlying these surficial fills and soils, the borings and CPTs primarily encountered fine- to medium-grained sands with interbeds of silts and clays to the maximum depth explored of about 50 feet.

Detailed descriptions of the materials encountered in our exploratory CPTs and borings are presented on the logs in Appendix A. Our attached boring logs and related information depict location specific subsurface conditions encountered during our field investigation. The

approximate locations of our CPTs and borings were determined using pacing or landmark references and should be considered accurate only to the degree implied by the method used.

3.3 Groundwater

Groundwater was encountered in all of the GeoSolve borings at depths between 20 and 25 feet at the time of drilling. Pore water pressure dissipation tests were performed in CPT-1 and CPT-4 and depths of 31.7 and 47.7 feet, respectively. The dissipation tests indicate groundwater at depths of about 25 feet in CPT-1 and 29 feet in CPT-4. It should be noted that the borings might not have been left open for a sufficient period of time to establish equilibrium groundwater conditions. In addition, fluctuations in the groundwater level could occur due to change in seasons, variations in rainfall, and other factors.

3.4 Hydrologic Soil Group

The surface soils of the site have been mapped as Delhi sand (2 to 9 percent slopes) by USDA Web Soil Survey (WSS)[1]. These soils are assigned to Hydrologic Soil Group A by USDA Natural Resources Conservation Service (NRCS); the soils have been categorized as having high to very high transmission rates (Ksat, 5.95 to 19.98 inches per hour). The Group A soil is defined as having a high infiltration rate (low runoff potential) when thoroughly wet and may consist mainly of deep, well drained to excessively drained sands or gravelly sands.

3.5 Geology and Seismicity

According to Helley, and Graymer (1997)[2], the site is underlain by Dune Sand (Pleistocene and Holocene) as well as artificial fill materials. Dune Sand consists of fine-grained, very well-sorted, well-drained, eolian deposits of northeastern Contra Costa County. Artificial fill consists of man-made deposit of various materials and ages. Generally, some artificial fill is considered to be compacted and quite firm, but fills placed before 1965 are generally considered to be not compacted and consist simply of dumped materials.

Nilsen[3] does not map the site as being impacted by landslides and the site and surrounding areas are relatively level to gently sloping; therefore, the potential for landsliding impacting the site is very low.

---

[1] http://websoilsurvey.sc.egov.usda.gov, accessed 12/26/2019.

[2] Helley, and Graymer, 1997, *Quaternary Geology of Contra Costa County, California, and Surrounding Areas*, USGS Open File Report 97-98.

[3] Nilsen, 1975, Preliminary Photointerpretation Map of Landslide and Other Surficial Deposits of Part of the Antioch North 7-1/2' Quadrangle, Solano and Contra Costa Counties, California, U.S. Geological Survey Open File Map 75-277-2.

The project site is located in the San Francisco Bay Area that is considered one of the most seismically active regions in the United States. Significant earthquakes have occurred in the San Francisco Bay Area and are believed to be associated with crustal movements along a system of sub-parallel fault zones that generally trend in a northwesterly direction. The site is not located within an Alquist-Priolo Earthquake Fault Zone as designated by the State of California[4], therefore the potential for ground surface rupture due to a fault crossing the site is very low.

Earthquake intensities will vary throughout the San Francisco Bay Area, depending upon numerous factors including the magnitude of earthquake, the distance of the site from the causative fault, and the type of materials underlying the site. The U.S. Geological Survey (2016) indicated that there is a 72 percent chance of at least one magnitude 6.7 or greater earthquake striking the San Francisco Bay region before 2043[5]. Therefore, the site will probably be subjected to at least one moderate to severe earthquake that will cause strong ground shaking.

According to the U.S. Geological Survey's Unified Hazard Tool and applying the Dynamic: Conterminous U.S. 2014 model (v4.2.0, accessed 12/26/2019), the resulting deaggregation calculations indicate that the site has a 10% probability of exceeding a peak ground acceleration of about 0.42g in 50 years (design basis ground motion based on stiff soil condition; mean return time of 475 years). The actual ground surface acceleration might vary depending upon the local seismic characteristics of the underlying bedrock and the overlying unconsolidated soils.

3.6 Liquefaction

Soil liquefaction is a phenomenon primarily associated with saturated, cohesionless, soil layers located close to the ground surface. These soils lose strength during cyclic loading, such as imposed by earthquakes. During the loss of strength, the soil acquires mobility sufficient to permit both horizontal and vertical movements. Soils that are most susceptible to liquefaction are clean, loose, uniformly graded, saturated, fine-grained sands that lie close to the ground surface. The site has been mapped by the State of California as being located within a Seismic Hazard Zone delineated for liquefaction[6].

SFB performed CPT-based liquefaction analyses based on procedures described by the Southern California Earthquake Center (SCEC, Martin and Lew, 1999), EERI Monograph 12 (2008)[7],

---

[4]Hart and Bryant, *Fault-Rupture Hazard Zones in California*, CDMG Special Publication 42, Interim Revision 2007.
[5]Aagard, et al, 2016, *Earthquake Outlook for the San Francisco Bay Region 2014-2043*, U.S. Geological Survey Fact Sheet 2016-3020, revised August 2016 (version 1.1)
[6] State of California, California Geological Survey, *Earthquake Zones of Required Investigation, Antioch North Quadrangle*, Official Map, Released April 4, 2019.
[7] Idriss & Boulanger, 2008, *Soil Liquefaction During Earthquakes*, Earthquake Engineering Research Institute, MNO-12.

updated CPT based liquefaction triggering procedures (2014)[8], CPT applications guide by Robertson (2001)[9], and in accordance with the California Geological Survey's (CGS) Special Publication 117A guidelines. We also evaluated the liquefaction potential of fine-grained soils using criteria published by Boulanger and Idriss (2006)[10]. As required by the 2019 California Building Code (CBC), a peak ground acceleration from a Maximum Considered Earthquake (MCE) was used in our liquefaction analyses; the MCE peak ground acceleration has a 2% probability of being exceeded in a 50-year period (mean return time of 2,475 years). Applying the ASCE 7-16 Standard for Risk Category II (accessed 12/26/2019)[11], the Maximum Considered Earthquake site modified ground acceleration (PGA_m) for the site is 0.657g with a mean Earthquake Magnitude of 6.5. The results of our liquefaction analyses are provided in Appendix D.

The results of the CPT based liquefaction analyses indicate that the more cohesionless saturated soil layers (layers located below the highest measured groundwater level of 20 feet below the ground surface) encountered by the CPTs have a moderate to high potential for liquefying when subjected to a Maximum Considered Earthquake (MCE) event. Our analyses indicate that in the area of CPT-1 and CPT-2 (the eastern building site) total vertical ground surface settlements ranging from about 3-1/4 to 4 inches could occur as a result of an MCE event. In the area of CPT-3 and CPT-4 (the western building site), our analyses indicate that total vertical ground surface settlements ranging from about 1-3/4 to 2-1/2 inches could occur as a result of an MCE event. Differential ground surface settlement is commonly assumed to be approximately half the total values over a distance of about 30 feet.

The liquefaction analyses also indicate that a loss of footing foundation bearing capacity will occur as a result of the surface manifestation of liquefaction induced ground rupture such as sand boils and surface fissures; the actual ground surface damage will vary depending on the thickness of the overlying non-liquefiable soils and the underlying liquefiable soils[12].

---

[8] Boulanger & Idriss, 2014, *CPT and SPT Based Liquefaction Triggering Procedures*, Center for Geotechnical Modeling, Report No. UCD/CGM-14/01, April 2014.

[9]Robertson et al., 2001, *Cone Penetration Testing, Geotechnical Applications Guide, Third Edition.*

[10] Boulanger and Idriss, 2006, *Liquefaction Susceptibility Criteria for Silts and Clays*, Journal of Geotechnical and Geoenvironmental Engineering, November 2006.

[11] https://seismicmaps.org, OSHPD, U.S. Seismic Design Maps.

[12]Ishihara, K., 1985, *Stability of Natural Deposits During Earthquakes*, Proceedings of the Eleventh International Conference on Soil Mechanics and Foundation Engineering, San Francisco, CA Volume 1, p. 321-376, August.

4.0 CONCLUSIONS AND RECOMMENDATIONS

It is our opinion that the site is suitable for the proposed project from a geotechnical engineering standpoint. The conclusions and recommendations presented in this report should be incorporated in the design and construction of the project to reduce soil or foundation related issues. The following are the primary geotechnical considerations for development of the site.

FILL AND SUFICIAL SOIL RE-COMPACTION: The surficial fills and soils that mantle the site are heterogenous and have variable compression and expansion characteristics. According to the borings, the fill materials extend to depths varying from about 6 inches to 5-1/2 feet below the ground surface. In order to provide support of the planned improvements (such as fills, foundations, roadways, and parking areas), we recommend over-excavating the existing site grades to depths of about 2 feet, scarifying and re-compacting the bottom 12 inches in-place, and replacing the excavation with compacted fill materials. Where fills are deeper than 3 feet in thickness (such as in the area of Boring B-2), we recommend the entire thickness of fill be removed and re-compacted. Over-excavations should be performed so that no more than 5 feet of differential fill thickness will occur below proposed building foundations. Removed soil can be used as new fill provided it is placed and compacted in accordance with the recommendations presented in this report. The extent of the fill removal and re-compaction may vary across the site and should be determined in the field by SFB at the time of the earthwork operations.

LIQUEFACTION: As described previously in this report, our analyses indicate that in the area of CPT-1 and CPT-2 (the eastern building site) total vertical ground surface settlements ranging from about 3-1/4 to 4 inches could occur as a result of a Maximum Considered Earthquake (MCE) event. In the area of CPT-3 and CPT-4 (the western building site), our analyses indicate that total vertical ground surface settlements ranging from about 1-3/4 to 2-1/2 inches could occur as a result of an MCE event. Differential ground surface settlement is commonly assumed to be approximately half the total values over a distance of about 30 feet. The liquefaction analyses also indicate that a loss of shallow foundation bearing capacity (such as footing foundations) can occur as a result of the surface manifestation of liquefaction induced ground rupture such as sand boils and surface fissures; the actual ground surface damage will vary depending on the thickness of the overlying non-liquefiable soils and the underlying liquefiable soils[13].

To reduce the liquefaction effects on buildings, we recommend the building foundations consist of post-tensioned slabs or thickened mat slabs capable of resisting the differential ground surface settlements. These magnitudes of differential settlements could occur directly below the building

[13]Ishihara, K., 1985, *Stability of Natural Deposits During Earthquakes*, Proceedings of the Eleventh International Conference on Soil Mechanics and Foundation Engineering, San Francisco, CA Volume 1, p. 321-376, August.

foundation (over a distance of about 30 feet) creating a "cupping" shape of the underlying supporting subgrade. The current building code requires buildings to resist these types of settlements without harm to the inhabitants.

Be aware that after a liquefaction event, damage to elements of the buildings can occur that require repair and/or replacement. We recommend pipelines (such as gas lines, sanitary sewers, and water services) be properly designed to compensate for the settlement caused by the liquefaction of the underlying supporting soils. It should be noted that after a liquefaction event, phenomena such as sand boils, ground cracking, and differential movement of overlying improvements such as driveways, roadways, and utilities can occur and will likely require repair.

CORROSION POTENTIAL: Two onsite soil samples were tested for pH (ASTM D4972), chlorides (ASTM D4327), sulfates (ASTM D4327), sulfides (ASTM D4658M), resistivity at 100% saturation (ASTM G57), and Redox potential (ASTM D1498) for use in evaluating the potential for corrosion on concrete and buried metal such as utilities and reinforcing steel. The results of the tests are included in Appendix B including a brief summary of the test results. We recommend these test results and summary be forwarded to your underground contractors, pipeline designers, and foundation designers and contractors. Please be aware that we are not corrosion protection experts; we recommend corrosion protection measures be designed and constructed so that all concrete and metal is protected against corrosion for the life of the project. We also recommend additional testing be performed if the corrosion test results are deemed insufficient by the designers of the corrosion protection measures. Also, landscaping soils typically contain fertilizers and other materials than can be highly corrosive to metals and concrete; landscaping soils commonly are in contact with foundations. Consideration should be given to testing the corrosion potential characteristics of proposed landscaping soils and other types of imported or modified soils and forwarding the results to your corrosion protection designers and installers.

ADDITIONAL RECOMMENDATIONS: Detailed drainage, earthwork, foundation, and pavement recommendations for use in design and construction of the project are presented below. We recommend SFB review the project design and specifications to verify that the recommendations presented in this report have been properly interpreted and implemented in the design, plans, and specifications. We also recommend SFB be retained to provide consulting services and to perform construction observation and testing services during the construction phase of the project to observe and test the implementation of our recommendations, and to provide supplemental or revised recommendations in the event conditions different than those described in this report are encountered. We assume no responsibility for misinterpretation of our recommendations. The risk of costly designs, construction, and maintenance can be greatly reduced if SFB is retained during the design and construction process to verify that our recommendations have been properly implemented and to provide supplemental recommendations when needed.

It is the responsibility of the contractors to provide safe working conditions at the site at all times. We recommend all OSHA regulations be followed, and excavation safety be ensured at all times. It is beyond our scope of work to provide excavation safety designs.

4.1 Earthwork

4.1.1 Clearing and Site Preparation

The site should be cleared of all obstructions including designated structures and their associated foundations, fencing, designated utilities and pipelines and their associated backfill, designated pavements, designated trees and shrubs and their entire root systems, and debris. Holes resulting from the removal of underground obstructions extending below the proposed finish grade should be cleared and backfilled with fill materials as specified in **Section 4.1.4, *Fill Material***, and compacted to the requirements in **Section 4.1.5, *Compaction***. Tree roots may extend to depths of about 3 to 4 feet. Wells and septic systems, if any, should be abandoned in accordance with Contra Costa County standards.

From a geotechnical standpoint, any existing trench backfill materials, clay or concrete pipes, pavements, and concrete that are removed can be used as new fill onsite provided debris is removed and it is broken up to meet the size requirement for fill material in **Section 4.1.4, *Fill Material***. We recommend fill materials composed of broken up concrete or asphalt concrete not be located within 2 feet of the ground surface in yard areas. Consideration should be given to placing these materials below pavements, directly under building footprints, or in deeper excavations. We recommend backfilling operations for any excavations be performed under the observation and testing of SFB.

Portions of the site containing heavy surface vegetation that is not removed during clearing should be stripped to an appropriate depth to remove these materials. The amount of actual stripping should be determined in the field by SFB at the time of construction. Stripped materials should be removed from the site or stockpiled for later use in landscaping, if desired.

4.1.2 Fill and Surficial Soil Re-Compaction

We recommend the surface soils and all existing fill materials be over-excavated and re-compacted. We estimate the process will consist of removing the upper two feet of surface soils, scarifying and re-compacting the bottom 12 inches, and placing moisture-conditioned, compacted engineered fill over the properly prepared subgrade. Where fills are deeper than 3 feet in thickness (such as in the area of Boring B-2), we recommend the entire thickness of fill be removed and re-

compacted. Over-excavations should be performed so that no more than 5 feet of differential fill thickness exists below the proposed building foundations.

Removed soil materials may be used as new fill onsite provided it satisfies the recommendations provided in **Section 4.1.4, *Fill Material***. Compaction should be performed in accordance with the recommendations in **Section 4.1.5, *Compaction***.

The extent of the removal and re-compaction will vary across the site and should be determined in the field by SFB at the time of the earthwork operations.

4.1.3 Subgrade Preparation

After the completion of clearing, site preparation, and soil/fill re-compaction, soil exposed in areas to receive improvements (such as structural fill, building foundations, driveways, exterior flatwork, and pavements) should be scarified to a depth of about 12 inches, moisture conditioned to approximately 2 to 3 percent over optimum water content, and compacted to the requirements for structural fill.

If building pads or pavement subgrade are allowed to remain exposed to sun, wind or rain for an extended period of time, or are disturbed by borrowing animals, the exposed subgrade or pavement subgrade may need to be reconditioned (moisture conditioned and/or scarified and recompacted) prior to foundation or pavement construction. SFB should be consulted on the need for subgrade reconditioning when the subgrade is left exposed for extended periods of time.

4.1.4 Fill Material

From a geotechnical and mechanical standpoint, onsite soils and existing fills having an organic content of less than 3 percent by volume can be used as new fill. Fill should not contain rocks or lumps larger than 6 inches in greatest dimension with not more than 15 percent larger than 2.5 inches. If required, imported fill should have a plasticity index of 12 or less and have a significant amount of cohesive fines.

In addition to the mechanical properties specifications, all imported fill material should have a resistivity (100% saturated) no less than the resistivity for the onsite soils, a pH of between approximately 6.0 and 8.5, a total water soluble chloride concentration less than 300 ppm, and a total water soluble sulfate concentration less than 500 ppm. We recommend import samples be submitted for corrosion and geotechnical testing at least two weeks prior to being brought onsite.

4.1.5 Compaction

We recommend structural fill be compacted to at least 90 percent relative compaction, as determined by ASTM D1557 (latest edition). We recommend the new fill be moisture conditioned approximately 2 to 3 percent over optimum water content. The upper 6 inches of subgrade soils beneath pavements should be compacted to at least 95 percent relative compaction. Fill material should be spread and compacted in lifts not exceeding approximately 8 to 12 inches in uncompacted thickness.

4.1.6 Utility Trench Backfill

Pipeline trenches should be backfilled with fill placed in lifts of approximately 8 inches in uncompacted thickness. Thicker lifts can be used provided the method of compaction is approved by SFB and the required minimum degree of compaction is achieved. Backfill should be placed by mechanical means only. Jetting is not permitted.

Onsite trench backfill should be compacted to at least 90 percent relative compaction. Imported sand trench backfill should be compacted to at least 95 percent relative compaction and sufficient water is added during backfilling operations to prevent the soil from "bulking" during compaction. The upper 3 feet of trench backfill in foundation, slab, and pavement areas should be entirely compacted to at least 95 percent relative compaction. To reduce piping and settlement of overlying improvements, we recommend rock bedding and rock backfill (if used) be completely surrounded by a filter fabric such as Mirafi 140N (or equivalent); alternatively, filter fabric would not be necessary if Caltrans Class 2 permeable material is used in lieu of rock bedding and rock backfill.

4.1.7 Exterior Flatwork

We recommend that exterior slabs (such as patios and sidewalks) be placed directly on the properly compacted fills. We do not recommend using aggregate base, gravel, or crushed rock below these improvements. If imported granular materials are placed below these elements, subsurface water can seep through the granular materials and cause the underlying soils to saturate, pipe, and/or heave. Prior to placing concrete, subgrade soils should be moisture conditioned to increase their moisture content to approximately 2 to 3 percent above laboratory optimum moisture (ASTM D-1557).

We recommend reinforcing exterior slabs with steel bars in lieu of wire mesh. To reduce potential crack formation, we recommend the installation of #4 bars spaced at approximately 24 inches on center in both directions. Score joints and expansion joints should be used to control cracking and allow for expansion and contraction of the concrete slabs. We recommend appropriate flexible, relatively impermeable fillers be used at all cold/expansion joints. The installation of dowels at all expansion and cold joints will reduce differential slab movements; if used, the dowels should be

at least 30 inches long and should be spaced at a maximum lateral spacing of 24 inches. Although exterior slabs that are adequately reinforced will still crack, trip hazards requiring replacement of the slabs will be reduced if the slabs are properly reinforced. We recommend you consult with your contractors to prepare procedures and methods to control the concrete cracking.

4.1.8 Construction During Wet Weather Conditions

If construction proceeds during or shortly after wet weather conditions, the moisture content of the onsite soils could be significantly above optimum. Consequently, subgrade preparation, placement and/or reworking of onsite soil or fills as structural fill might not be possible. Alternative wet weather construction recommendations can be provided by our representative in the field at the time of construction, if appropriate. All the drainage measures recommended in this report should be implemented and maintained during and after construction, especially during wet weather conditions.

4.1.9 Surface Drainage, Irrigation, and Landscaping

Ponding of surface water must not be allowed on pavements, adjacent to foundations, at the top or bottom of slopes, and at the top or adjacent to retaining walls. Ponding of water should also not be allowed on the ground surface adjacent to or near exterior slabs, including driveways, walkways, and patios. Surface water should not be allowed to flow over the top of slopes, down slope faces, or over retaining walls.

We recommend positive surface gradients of at least 2 percent be provided adjacent to foundations to direct surface water away from the foundations and toward suitable discharge facilities. Roof downspouts and landscaping drainage inlets should be connected to solid pipes that discharge the collected water into appropriate water collection facilities. We recommend the surface drainage be designed in accordance with the latest edition of the California Building Code.

In order to reduce differential foundation movements, landscaping (where used) should be placed uniformly adjacent to the foundation and exterior slabs. We recommend trees be no closer to the structure or exterior slabs than half the mature height of the tree; in no case should tree roots be allowed to extend near or below the foundations or exterior slabs.

Drainage inlets should be provided within enclosed planter areas and the collected water should be discharged onto pavement, into drainage swales, or into storm water collection systems. In order to reduce the potential for heaving, consideration should be given to lining enclosed planting areas and collecting the accumulated surface water in subdrain pipes that discharge to appropriate collection facilities. The drainage should be designed and constructed so that the moisture content of the soils surrounding the foundations do not become elevated and no ponding of water occurs. The inlets should be kept free of debris and be lower in elevation than the adjacent ground surface.

We recommend regular maintenance of the drainage systems be performed, including maintenance prior to rainstorms. The inspection should include checking drainage patterns to make sure they are performing properly, making sure drainage systems and inlets are functional and not clogged, and checking that erosion control measures are adequate for anticipated storm events. Immediate repairs should be performed if any of these measures appears to be inadequate.

Irrigation should be performed in a uniform, systematic manner as equally as possible on all sides of the foundations and exterior slabs to maintain moist soil conditions. Over-watering must be avoided. To reduce moisture changes in the natural soils and fills in landscaped areas, we recommend that drought resistant plants and low flow watering systems be used. All irrigation systems should be regularly inspected for leakage.

4.1.10 Storm Water Runoff Structures

To satisfy local and state permit requirements, most new development projects must control pollutant sources and reduce, detain, retain, and/or treat specified amounts of storm water runoff. The intent of these types of improvements is to conserve and incorporate on-site natural features, together with constructed hydrologic controls, to more closely mimic pre-development hydrology and watershed processes.

We recommend storm water collection improvements that are designed to detain, retain, and/or treat water such as bio-swales, bio-basins, porous pavement structures, and water detention basins, be lined on the sides with a relatively impermeable membrane in order to reduce water seepage and the potential for damage and distress to other infrastructure improvements (such as pavements, foundations, and walkways) which can occur as a result of volumetric soil/fill changes (heaving and shrinking of the surrounding soil/fill). We recommend a relatively impermeable membrane such as STEGO Wrap 15-mil or equivalent be installed along the sides of these facilities that direct the collected water into subdrain pipes. The membrane should be lapped and sealed in accordance with the manufacture's specifications, including taping joints where pipes penetrate the membrane. A subdrain pipe should be used at the base of the infiltration materials to collect accumulated water and transmit the water to an appropriate facility.

Soil filter materials within basins and swales will consolidate over time causing long-term ground surface settlement. Additional filling within the basins and swales over time will be needed to maintain design surface elevations. The soil filter materials, infiltration testing and procedures, and associated compaction requirements should be specified by the Civil Engineer and shown in detail on the grading and improvement plans.

Sidewalls (the excavation sides of basins/swales prior to infilling with the soil mix) of earthen swales and basins steeper than 2:1 (horizontal to vertical) will experience downward and lateral movements that can cause significant ground surface movements, including movement of adjacent improvements such as foundations, utilities, pavements, driveways, walkways, and curbs and gutters. The magnitude and rate of movement depends upon the swale and basin backfill material type and compaction. To reduce the potential for damaging movements, we recommend 2:1 sidewall slopes be used for earthen swales and basins, sidewalks be setback at least 3 feet from the top of the slope, creep sensitive improvements (such as roadway curbs) be setback at least 5 feet from the top of the slopes, or the slopes/sidewalls be appropriately restrained using an engineered retaining system, such as deepened curbs and foundations that are designed to resist lateral earth pressures and act as a retaining wall.

SFB should be consulted regarding the use, locations, and design of storm water detention and filtration facilities. We also recommend SFB observe and document the installation of liners, subdrain pipes, and soil filter materials during construction for conformance to the recommendations in this report and the development's plans and specifications.

4.1.11 Future Maintenance

In order to reduce water created issues, we recommend regular maintenance of the site and open space areas be performed, including maintenance prior to rainstorms. Maintenance should include the re-compaction of loosened soils, collapsing and infilling holes with compacted soils or low strength sand/cement grout, removal and control of digging animals, modifying storm water drainage patterns to allow for sheet flow into drainage inlets or ditches rather than concentrated flow or ponding, removal of debris within drainage ditches and inlets, and immediately repairing any erosion or soil flow. The inspection should include checking drainage patterns, making sure drainage systems are functional and not clogged, and erosion control measures are adequate for anticipated storm events. Immediate repair should be performed if any of these measures appears to be inadequate. Temporary and permanent erosion and sediment control measures should be installed over any exposed soils immediately after repairs are made.

Differential movement of exterior slabs can occur over time as a result of numerous factors. We recommend homeowners perform inspections and maintenance of the slabs, including infilling significant cracks, providing fillers at slab offsets, and replacing slabs if severely damaged.

4.1.12 Additional Recommendations

We recommend the drainage, irrigation, landscaping, and maintenance recommendations provided in this report be forwarded to your designers and contractors, and we recommend they be included in disclosure statements given to the development owners.

4.2 Foundation Support

4.2.1 General

We recommend the buildings be supported on either structural mat foundations or post-tensioned slab-on-grade foundations. The foundations should bear directly upon properly prepared subgrade. Recommendations for subgrade preparation are described previously in **Sections 4.1.2 and 4.1.3** of this report. Prior to the concrete pour, we recommend the moisture content of the subgrade materials be approximately 2 to 3 percent above laboratory optimum moisture. If the building pads are left exposed for an extended period of time prior to constructing foundations, we recommend SFB be contacted for recommendations to re-condition the pads in order provide adequate building support.

We recommend the buildings in the area of CPT-1 and CPT-2 (the eastern building site) be designed to resist a differential settlement of 2 inches. We recommend the buildings in the area of CPT-3 and CPT-4 (the western building site) be designed to resist a differential settlement of 1-1/4 inches. These differential settlements could occur directly below a building foundation (over a distance of about 30 feet) creating a "cupping" shape of the underlying supporting subgrade.

A vapor retarder must be placed between the subgrade soils and the bottom of the foundation slabs-on-grade. We recommend the vapor retarder consist of a single layer of Stego Wrap Vapor Barrier 15 mil Class A or equivalent provided the equivalent satisfies the following criteria: a permeance as tested before and after mandatory conditioning of less than 0.01 Perms and strength of Class A as determined by ASTM E 1745 (latest edition), and a thickness of at least 15 mils. Installation of the vapor retarder should conform to the latest edition of ASTM E 1643 (latest edition) and the manufacturers requirements, including all joints should be lapped at least 6 inches and sealed with Stego Tape or equal in accordance with the manufacturer's specifications. Protrusions where pipes or conduit penetrate the membranes should be sealed with either one or a combination of Stego Tape, Stego Mastic, Stego Pipe Boots, or a product of equal quality as determined by the manufacturer's instructions and ASTM E 1643. Care must be taken to protect the membrane from tears and punctures during construction. We do not recommend placing sand or gravel over the membrane.

Concrete slabs retain moisture and often take many months to dry; construction water added during the concrete pour further increases the curing time. If the slabs are not allowed to completely cure prior to constructing the super-structure, the concrete slabs will expel water vapor and the vapor will be trapped under impermeable flooring. All concrete shrinks during curing which results in cracks. We recommend you consult with your concrete slab designers and concrete contractors regarding methods to reduce the potential for differential concrete curing and cracking.

In order to reduce the potential for vapor transmission through the concrete slab, we recommend the concrete mix design for the slabs have a maximum water/cement ratio of 0.45. If a higher water/cement ratio is being considered, we recommend higher vapor transmission be taken into account in the design and construction of the building. The actual water/cement ratio may need to be reduced if the concentration of soluble sulfates or chlorides in the supporting subgrade is detrimental to the concrete and/or reinforcing steel. The results of sulfate and chloride testing of onsite soil samples are included under separate cover.

In order to generate full vertical and passive resistance, at least 10 feet of soil cover must be provided between the face of the foundations and the face of slopes, as measured horizontally. The portion of the foundation or wall located closer than 10 feet from the face of slopes should be ignored in both the vertical and lateral load design. Where foundations are located adjacent to utility trenches, the foundation bearing surface should bear below an imaginary 1 horizontal to 1 vertical plane extending upward from the bottom edge of the adjacent utility trench. Alternatively, the foundation reinforcing could be increased to span the area defined above assuming no soil support is provided.

Lateral loads, such as derived from earthquakes and wind, can be resisted by friction between the post-tensioned slab foundation bottom and the supporting subgrade. A friction coefficient of 0.25 is considered applicable.

We recommend the slab foundations be entirely surrounded by uniform, properly drained soils; if differing conditions will exist that will cause differential soil moisture adjacent or below the slabs, or if portions of the foundations will be located adjacent to relatively dry or wet soils, then we should be consulted and modifications to the values below would need to be modified in writing. Please refer to **Section 4.1.9, *Surface Drainage, Irrigation, and Landscaping***, for additional recommendations.

We recommend SFB review the foundation drawings and specifications prior to submittal to verify that the recommendations provided in this report have been used and properly interpreted in the design of the foundations. In addition, we recommend all concrete and reinforcing steel be protected against corrosion; the results of corrosion testing are included in Appendix B.

4.2.2 Post-Tensioned Slabs

The post-tensioned slab thickness should be determined by the Structural Engineer, however we recommend the post-tensioned slabs be at least 10 inches thick. An allowable bearing pressure of 1,500 pounds per square foot can be used for localized point and line loads. Deflection of the slab foundations should not exceed the values recommended in the most recent PTI Manual. We

recommend the slab-subgrade friction values provided in the most recent PTI Manual be used in order to determine the friction that might be expected to exist during tendon stressing.

An experienced Structural Engineer should design the post-tensioned slabs to resist the differential soil movement. The preliminary soil design parameters presented below were generated using the procedures presented in the Post-Tensioning Institute (PTI) design manual and PTI published specifications, and the PTI preferred computer program VOLFLO was employed to simulate the wetting and drying scenarios of the soils beneath the post-tensioned slabs.

SWELLING MODE

	Center Lift	Edge Lift
Edge Moisture Variation Distance (e_m)	9.0 feet	5.0 feet
Differential Soil Movement (y_m)	0.5 inch	1.0 inch

We recommend SFB review the foundation drawings and specifications prior to submittal to verify that the recommendations provided in this report have been used and properly interpreted in the design of the slabs.

4.2.3 Mat Slabs

If a thickened, steel reinforced, mat slab is used to support the buildings, we recommend the actual thickness of the mat slab be determined by the Structural Engineer. The subgrade materials beneath the slabs should be considered to have an effective Plasticity Index of 15 percent. An allowable dead plus live load bearing pressure of 1,500 pounds per square foot (psf) can be used for the mat slab foundation. An allowable bearing pressure of about 2,000 psf can be used for localized areas of the slab that are supported directly on the subgrade. The slab should be designed in accordance with California Building Code requirements.

4.2.4 Seismic Design Criteria

The following parameters were calculated using the U.S. Seismic Design Map program[14], and were based on the site being located at approximate latitude 38.011652°N and longitude 121.769107°W. For seismic design using the 2019 California Building Code (CBC), we recommend the following seismic design parameters be used. These values are based on the applying the ASCE 7-16 model and assuming the structures are categorized as Risk Category II.

[14]https://seismicmaps.org/ (accessed 12/26/19)

Seismic Design Parameter	Design Value
Site Class	D
S_S	1.452
S_1	0.498
S_{MS}	1.452
S_{M1}	Null (See Section 11.4.8 of ASCE 7-16)
S_{DS}	0.968
S_{D1}	Null (See Section 11.4.8 of ASCE 7-16)
SDC	Null (See Section 11.4.8 of ASCE 7-16)
F_a	1
F_v	Null (See Section 11.4.8 of ASCE 7-16)
PGA_M	0.657

4.3 Pavements

4.3.1 Asphalt Concrete

Based on the results of laboratory testing of onsite materials, we recommend that an R-value of 30 be used in preliminary asphalt concrete pavement design. We recommend additional R-value tests be performed once the pavement subgrade is established to confirm the R-value used in the design. Pavement subgrade completely composed of sandy and gravelly fills will result in higher R-values and thinner pavement sections.

We developed the following alternative preliminary pavement sections using Topic 608 of the State of California Department of Transportation Highway Design Manual, the recommended R-value, and typical traffic indices for commercial developments. The pavement thicknesses shown below are SFB's recommended minimum values.

PRELIMINARY PAVEMENT DESIGN ALTERNATIVES SUBGRADE R-VALUE = 30			
Location	Pavement Components		Total Thickness (inches)
	Asphalt Concrete (inches)	Class 2 Aggregate Base (inches)	
T.I. = 4.5 (auto & light truck parking)	3.0	6.0	9.0
T.I. = 5.0 (truck parking)	3.0	7.0	10.0
T.I. = 6.0 (access ways)	3.0	9.0	12.0

If the pavements are planned to be placed prior to or during construction, the traffic indices and pavement sections may not be adequate for support of what is typically more frequent and heavier construction traffic. If the pavement sections will be used for construction access by heavy trucks or construction equipment (especially fork lifts with support footings), SFB should be consulted to provide recommendations for alternative pavement sections capable of supporting the heavier use and heavier loads. If requested, SFB can provide recommendations for a phased placement of the asphalt concrete to reduce the potential for mechanical scars caused by construction traffic in the finished grade. Preliminary pavement sections should be revised, if necessary, when actual traffic indices are known and pavement subgrade elevations are determined.

Pavement baserock and asphalt concrete should be compacted to at least 95 percent relative compaction. The asphalt concrete compacted unit weight should be determined using Caltrans Test Method 308-A or ASTM Test Method D1188. Asphalt concrete should also satisfy the S-value requirements by Caltrans.

We recommend regular maintenance of the asphalt concrete be performed at approximately five year intervals. Maintenance may include sand slurry sealing, crack filling, and chip seals as necessary. If regular maintenance is not performed, the asphalt concrete layer could experience premature degradation requiring more extensive repairs.

5.0 CONDITIONS AND LIMITATIONS

SFB is not responsible for the validity or accuracy of information, analyses, test results, or designs provided to SFB by others or prepared by others. The analysis, designs, opinions, and recommendations submitted in this report are based in part upon the data obtained from our field work and upon information provided by others. Site exploration and testing characterizes subsurface conditions only at the locations where the explorations or tests are performed; actual subsurface conditions between explorations or tests may be different than those described in this report. Variations of subsurface conditions from those analyzed or characterized in this report are not uncommon and may become evident during construction. In addition, changes in the condition of the site can occur over time as a result of either natural processes (such as earthquakes, flooding, or changes in ground water levels) or human activity (such as construction adjacent to the site, dumping of fill, or excavating). If changes to the site's surface or subsurface conditions occur since the performance of the field work described in this report, or if differing subsurface conditions are encountered, we should be contacted immediately to evaluate the differing conditions to assess if the opinions, conclusions, and recommendations provided in this report are still applicable or should be amended.

We recommend SFB be retained to provide geotechnical services during design, reviews, earthwork operations, paving operations, and foundation installation to confirm and observe compliance with the design concepts, specifications and recommendations presented in this report. Our presence will also allow us to modify design if unanticipated subsurface conditions are encountered or if changes to the scope of the project, as defined in this report, are made.

This report is a design document that has been prepared in accordance with generally accepted geological and geotechnical engineering practices for the exclusive use of Mt Diablo Resource Recovery and their consultants for specific application to the proposed 2600 Wilbur Avenue development project in Antioch, California, and is intended to represent our design recommendations to Mt Diablo Resource Recovery for specific application to the 2600 Wilbur Avenue project. The conclusions and recommendations contained in this report are solely professional opinions. It is the responsibility of Mt Diablo Resource Recovery to transmit the information and recommendations of this report to those designing and constructing the project. We will not be responsible for the misinterpretation of the information provided in this report. We recommend SFB be retained to review geological and geotechnical aspects of the construction calculations, specifications, and plans; we should also be retained to participate in prebid and preconstruction conferences to clarify the opinions, conclusions, and recommendations contained in this report.

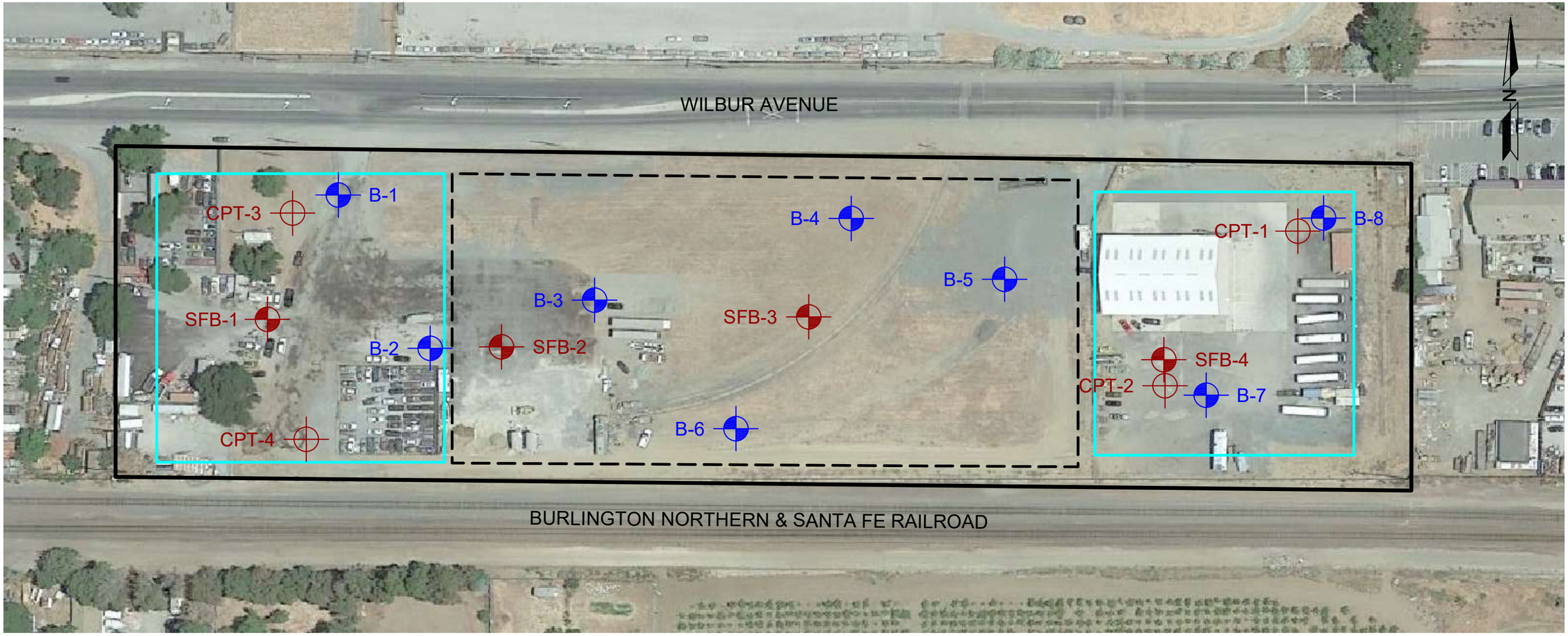
It should be understood that advancements in the practice of geotechnical engineering and engineering geology, or discovery of differing surface or subsurface conditions, may affect the validity of this report and are not uncommon. SFB strives to perform its services in a proper and professional manner with reasonable care and competence but we are not infallible. Geological engineering and geotechnical engineering are disciplines that are far less exact than other engineering disciplines; therefore we should be consulted if it is not completely understood what the limitations to using this report are.

In the event that there are any changes in the nature, design or location of the project, as described in this report, or if any future additions are planned, the conclusions and recommendations contained in this report shall not be considered valid unless we are contacted in writing, the project changes are reviewed by us, and the conclusions and recommendations presented in this report are modified or verified in writing. The opinions, conclusions, and recommendations contained in this report are based upon the description of the project as presented in the introduction section of this report.

This report does not necessarily represent all of the information that has been communicated by us to Mt Diablo Resource Recovery and their consultants during the course of this engagement and our rendering of professional services to Mt Diablo Resource Recovery. Reliance on this report by parties other than those described above must be at their own risk unless we are first consulted as to the parties' intended use of this report and only after we obtain the written consent of Mt Diablo Resource Recovery to divulge information that may have been communicated to Mt Diablo Resource Recovery. We cannot accept consequences for use of segregated portions of this report.

Please refer to Appendix E for additional guidelines regarding use of this report.

FIGURE



KEY*

SFB-4 — LOCATION OF SFB HAND AUGER BORING (12/23/19)

CPT-4 — LOCATION OF SFB CONE PENETRATION TEST (12/23/19)

PROPERTY BOUNDARY

*ALL LOCATIONS ARE APPROXIMATE

B-8 — LOCATION OF EXPLORATORY BORING BY GEOSOLVE (11/22/19 & 11/23/19)

LOCATION OF PROPOSED BUILDINGS

LOCATION OF PROPOSED AUTO/TRUCK PARKING AND ACCESS

BASE: Property boundary provided by Bob Hammons and overlayed on a Google Earth image dated 6/23/18.

APPROXIMATE SCALE: 1" = 100'

0 100' 200'

DATE
January 2020
PROJECT NO.
880-1

Stevens Ferrone & Bailey Engineering Company, Inc
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Concord, CA 94520
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SITE PLAN

2600 WILBUR AVENUE
Antioch, California

FIGURE 1

APPENDIX A

Field Investigation

APPENDIX A
Field Investigation

Reconnaissance of the site and surrounding area were performed by SFB on December 18, 2019. Subsurface exploration was performed using a truck-mounted CPT rig in order to collect necessary information for liquefaction analyses as well as a hand auger in order to collect surficial soil/fill samples for laboratory testing. Four Cone Penetration Tests (CPT's) were advanced on December 23, 2019 to a maximum depth of about 50 feet. Our representative who performed the hand augers on December 23, 2019 continuously logged the soils encountered in the borings in the field. The soils are described in general accordance with the Unified Soil Classification System (ASTM D2487). A description of the CPT process, the logs of CPT's, the logs of the hand auger borings, and a key for the classification of the soil (Figure A-1) are included as part of this appendix.

Representative samples were obtained from our hand auger exploratory borings in order to collect surficial soil/fill samples appropriate to the investigation. All samples were transmitted to our offices for evaluation and appropriate testing.

The attached CPT logs as well as the hand auger boring logs and related information show our interpretation of the subsurface conditions at the dates and locations indicated, and it is not warranted that they are representative of subsurface conditions at other locations and times.

December 27, 2019

Stevens, Ferrone & Bailey
Attn: Ken Ferrone & Nikos Sofianos

Subject: CPT Site Investigation
2600 Wilbur Ave.
Antioch, California
GREGG Project Number: D2194148

Dear Mr. Ferrone:

The following report presents the results of GREGG Drilling Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	UVOST Laser Induced Fluorescence	(UVOST)	☐
5	Groundwater Sampling	(GWS)	☐
6	Soil Sampling	(SS)	☐
7	Vapor Sampling	(VS)	☐
8	Pressuremeter Testing	(PMT)	☐
9	Vane Shear Testing	(VST)	☐
10	Dilatometer Testing	(DMT)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact me at 714-863-0988.

Sincerely,
Gregg Drilling, LLC.

CPT Reports Team
Gregg Drilling, LLC.

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (feet)	Depth of Groundwater Samples (feet)	Depth of Soil Samples (feet)	Depth of Pore Pressure Dissipation Tests (feet)
CPT-01	12/23/2019	50.20	-	-	31.7
CPT-02	12/23/2019	50.20	-	-	-
CPT-03	12/23/2019	50.20	-	-	-
CPT-04	12/23/2019	50.20	-	-	47.7

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Copies of ASTM Standards are available through www.astm.org

Cone Penetration Testing Procedure (CPT)

Gregg Drilling carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, *Figure CPT*.

The cone takes measurements of tip resistance (q_c), sleeve resistance (f_s), and penetration pore water pressure (u_2). Measurements are taken at either 2.5 or 5 cm intervals during penetration to provide a nearly continuous profile. CPT data reduction and basic interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are stored electronically for further analysis and reference. All CPT soundings are performed in accordance with revised ASTM standards (D 5778-12).

The 5mm thick porous plastic filter element is located directly behind the cone tip in the u_2 location. A new saturated filter element is used on each sounding to measure both penetration pore pressures as well as measurements during a dissipation test (*PPDT*). Prior to each test, the filter element is fully saturated with oil under vacuum pressure to improve accuracy.

When the sounding is completed, the test hole is backfilled according to client specifications. If grouting is used, the procedure generally consists of pushing a hollow tremie pipe with a "knock out" plug to the termination depth of the CPT hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.

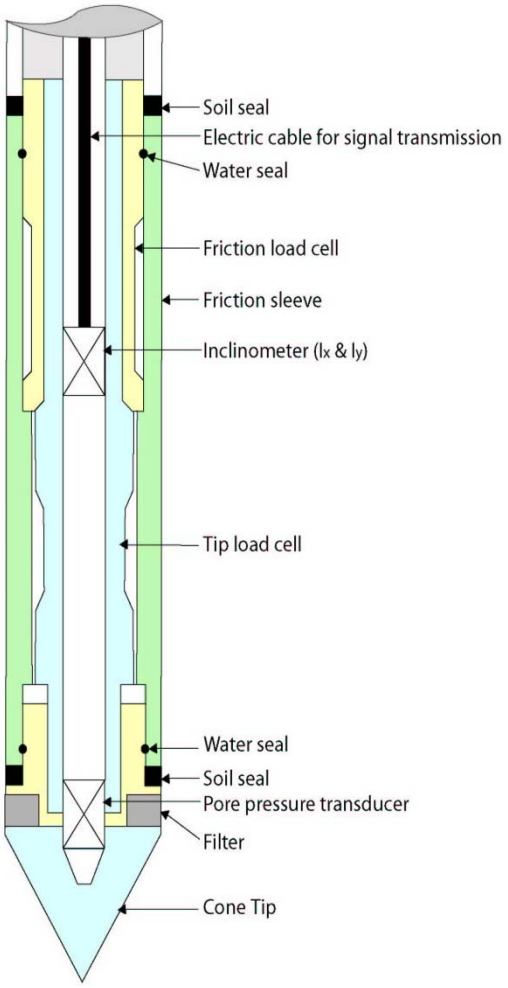


Figure CPT

Gregg 15cm^2 Standard Cone Specifications

Dimensions	
Cone base area	15 cm^2
Sleeve surface area	225 cm^2
Cone net area ratio	0.80
Specifications	
Cone load cell	
Full scale range	180 kN (20 tons)
Overload capacity	150%
Full scale tip stress	120 MPa (1,200 tsf)
Repeatability	120 kPa (1.2 tsf)
Sleeve load cell	
Full scale range	31 kN (3.5 tons)
Overload capacity	150%
Full scale sleeve stress	1,400 kPa (15 tsf)
Repeatability	1.4 kPa (0.015 tsf)
Pore pressure transducer	
Full scale range	7,000 kPa (1,000 psi)
Overload capacity	150%
Repeatability	7 kPa (1 psi)

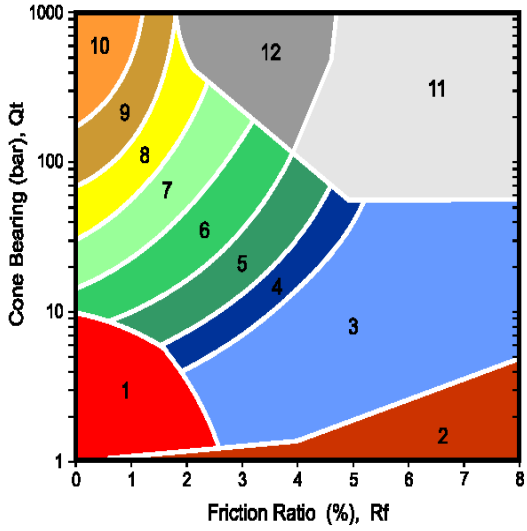
Note: The repeatability during field use will depend somewhat on ground conditions, abrasion, maintenance and zero load stability.

Cone Penetration Test Data & Interpretation

The Cone Penetration Test (CPT) data collected are presented in graphical and electronic form in the report. The plots include interpreted Soil Behavior Type (SBT) based on the charts described by Robertson (1990). Typical plots display SBT based on the non-normalized charts of Robertson et al (1986). For CPT soundings deeper than 30m, we recommend the use of the normalized charts of Robertson (1990) which can be displayed as SBTn, upon request. The report also includes spreadsheet output of computer calculations of basic interpretation in terms of SBT and SBTn and various geotechnical parameters using current published correlations based on the comprehensive review by Lunne, Robertson and Powell (1997), as well as recent updates by Professor Robertson (Guide to Cone Penetration Testing, 2015). The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Gregg Drilling & Testing Inc. does not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and does not assume any liability for use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software. Some interpretation methods require input of the groundwater level to calculate vertical effective stress. An estimate of the in-situ groundwater level has been made based on field observations and/or CPT results, but should be verified by the user.

A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Note that it is not always possible to clearly identify a soil type based solely on q_t, f_s, and u_2. In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the correct soil behavior type.



ZONE		SBT
1		Sensitive, fine grained
2		Organic materials
3		Clay
4		Silty clay to clay
5		Clayey silt to silty clay
6		Sandy silt to clayey silt
7		Silty sand to sandy silt
8		Sand to silty sand
9		Sand
10		Gravely sand to sand
11		Very stiff fine grained*
12		Sand to clayey sand*

*over consolidated or cemented

Figure SBT (After Robertson et al., 1986) – Note: Colors may vary slightly compared to plots

Cone Penetration Test (CPT) Interpretation

Gregg uses a proprietary CPT interpretation and plotting software. The software takes the CPT data and performs basic interpretation in terms of soil behavior type (SBT) and various geotechnical parameters using current published empirical correlations based on the comprehensive review by Lunne, Robertson and Powell (1997). The interpretation is presented in tabular format using MS Excel. The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Gregg does not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and does not assume any liability for any use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software.

The following provides a summary of the methods used for the interpretation. Many of the empirical correlations to estimate geotechnical parameters have constants that have a range of values depending on soil type, geologic origin and other factors. The software uses 'default' values that have been selected to provide, in general, conservatively low estimates of the various geotechnical parameters.

Input:

1 Units for display (Imperial or metric) (atm. pressure, p_a = 0.96 tsf or 0.1 MPa)
2 Depth interval to average results (ft or m). Data are collected at either 0.02 or 0.05m and can be averaged every 1, 3 or 5 intervals.
3 Elevation of ground surface (ft or m)
4 Depth to water table, z_w (ft or m) – input required
5 Net area ratio for cone, a (default to 0.80)
6 Relative Density constant, C_{Dr} (default to 350)
7 Young's modulus number for sands, α (default to 5)
8 Small strain shear modulus number
  a. for sands, S_G (default to 180 for SBT_n 5, 6, 7)
  b. for clays, C_G (default to 50 for SBT_n 1, 2, 3 & 4)
9 Undrained shear strength cone factor for clays, N_{kt} (default to 15)
10 Over Consolidation ratio number, k_{ocr} (default to 0.3)
11 Unit weight of water, (default to γ_w = 62.4 lb/ft^3 or 9.81 kN/m^3)

Column

1 Depth, z, (m) – CPT data is collected in meters
2 Depth (ft)
3 Cone resistance, q_c (tsf or MPa)
4 Sleeve resistance, f_s (tsf or MPa)
5 Penetration pore pressure, u (psi or MPa), measured behind the cone (i.e. u_2)
6 Other – any additional data
7 Total cone resistance, q_t (tsf or MPa) $q_t = q_c + u\,(1-a)$

8	Friction Ratio, R_f (%)	$R_f = (f_s/q_t) \times 100\%$
9	Soil Behavior Type (non-normalized), SBT	see note
10	Unit weight, γ (pcf or kN/m^3)	based on SBT, see note
11	Total overburden stress, σ_v (tsf)	$\sigma_{vo} = \sigma\, z$
12	In-situ pore pressure, u_o (tsf)	$u_o = \gamma_w (z - z_w)$
13	Effective overburden stress, σ'_{vo} (tsf)	$\sigma'_{vo} = \sigma_{vo} - u_o$
14	Normalized cone resistance, Q_{t1}	$Q_{t1} = (q_t - \sigma_{vo}) / \sigma'_{vo}$
15	Normalized friction ratio, F_r (%)	$F_r = f_s / (q_t - \sigma_{vo}) \times 100\%$
16	Normalized Pore Pressure ratio, B_q	$B_q = u - u_o / (q_t - \sigma_{vo})$
17	Soil Behavior Type (normalized), SBT_n	see note
18	SBT_n Index, I_c	see note
19	Normalized Cone resistance, Q_{tn} (n varies with I_c)	see note
20	Estimated permeability, k_{SBT} (cm/sec or ft/sec)	see note
21	Equivalent SPT N_{60}, blows/ft	see note
22	Equivalent SPT $(N_1)_{60}$ blows/ft	see note
23	Estimated Relative Density, D_r, (%)	see note
24	Estimated Friction Angle, ϕ', (degrees)	see note
25	Estimated Young's modulus, E_s (tsf)	see note
26	Estimated small strain Shear modulus, Go (tsf)	see note
27	Estimated Undrained shear strength, s_u (tsf)	see note
28	Estimated Undrained strength ratio	s_u/σ_v'
29	Estimated Over Consolidation ratio, OCR	see note

Notes:

1 Soil Behavior Type (non-normalized), SBT (Lunne et al., 1997 and table below)

2 Unit weight, γ either constant at 119 pcf or based on Non-normalized SBT (Lunne et al., 1997 and table below)

3 Soil Behavior Type (Normalized), SBT_n Lunne et al. (1997)

4 SBT_n Index, I_c $I_c = ((3.47 - \log Q_{t1})^2 + (\log F_r + 1.22)^2)^{0.5}$

5 Normalized Cone resistance, Q_{tn} (n varies with Ic)

$Q_{tn} = ((q_t - \sigma_{vo})/pa)\ (pa/(\sigma'_{vo})^n$ and recalculate I_c, then iterate:

When $I_c < 1.64$, n = 0.5 (clean sand)
When $I_c > 3.30$, n = 1.0 (clays)
When $1.64 < I_c < 3.30$, $n = (I_c - 1.64)0.3 + 0.5$
Iterate until the change in n, $\Delta n < 0.01$

6 Estimated permeability, k_{SBT} based on Normalized SBT_n (Lunne et al., 1997 and table below)

7 Equivalent SPT N_{60}, blows/ft Lunne et al. (1997)

$$\frac{(q_t/p_a)}{N_{60}} = 8.5\left(1 - \frac{I_c}{4.6}\right)$$

8 Equivalent SPT $(N_1)_{60}$ blows/ft $(N_1)_{60} = N_{60}\, C_N$,
where $C_N = (pa/\sigma'_{vo})^{0.5}$

9 Relative Density, D_r, (%) $D_r^2 = Q_{tn} / C_{Dr}$
Only SBT_n 5, 6, 7 & 8 *Show 'N/A' in zones 1, 2, 3, 4 & 9*

10 Friction Angle, ϕ', (degrees) $\tan\phi' = \frac{1}{2.68}\left[\log\left(\frac{q_c}{\sigma'_{vo}}\right) + 0.29\right]$
Only SBT_n 5, 6, 7 & 8 *Show'N/A' in zones 1, 2, 3, 4 & 9*

11 Young's modulus, E_s $E_s = \alpha\, q_t$
Only SBT_n 5, 6, 7 & 8 *Show 'N/A' in zones 1, 2, 3, 4 & 9*

12 Small strain shear modulus, Go

a. $G_o = S_G\,(q_t\ \sigma'_{vo}\ pa)^{1/3}$ *For SBT_n 5, 6, 7*

b. $G_o = C_G\, q_t$ *For SBT_n 1, 2, 3& 4*

Show 'N/A' in zones 8 & 9

13 Undrained shear strength, s_u $s_u = (q_t - \sigma_{vo}) / N_{kt}$
Only SBT_n 1, 2, 3, 4 & 9 *Show 'N/A' in zones 5, 6, 7 & 8*

14 Over Consolidation ratio, OCR $OCR = k_{ocr}\, Q_{t1}$
Only SBT_n 1, 2, 3, 4 & 9 *Show 'N/A' in zones 5, 6, 7 & 8*

The following updated and simplified SBT descriptions have been used in the software:

SBT Zones		**SBT_n Zones**	
1	sensitive fine grained	1	sensitive fine grained
2	organic soil	2	organic soil
3	clay	3	clay
4	clay & silty clay	4	clay & silty clay
5	clay & silty clay		
6	sandy silt & clayey silt		

7	silty sand & sandy silt	5	silty sand & sandy silt
8	sand & silty sand	6	sand & silty sand
9	sand		
10	sand	7	sand
11	very dense/stiff soil*	8	very dense/stiff soil*
12	very dense/stiff soil*	9	very dense/stiff soil*

*heavily overconsolidated and/or cemented

Track when soils fall with zones of same description and print that description (i.e. if soils fall only within SBT zones 4 & 5, print 'clays & silty clays')

Estimated Permeability (see Lunne et al., 1997)

SBT_n	Permeability (ft/sec)	(m/sec)
1	$3x\ 10^{-8}$	$1x\ 10^{-8}$
2	$3x\ 10^{-7}$	$1x\ 10^{-7}$
3	$1x\ 10^{-9}$	$3x\ 10^{-10}$
4	$3x\ 10^{-8}$	$1x\ 10^{-8}$
5	$3x\ 10^{-6}$	$1x\ 10^{-6}$
6	$3x\ 10^{-4}$	$1x\ 10^{-4}$
7	$3x\ 10^{-2}$	$1x\ 10^{-2}$
8	$3x\ 10^{-6}$	$1x\ 10^{-6}$
9	$1x\ 10^{-8}$	$3x\ 10^{-9}$

Estimated Unit Weight (see Lunne et al., 1997)

SBT	Approximate Unit Weight (lb/ft^3)	(kN/m^3)
1	111.4	17.5
2	79.6	12.5
3	111.4	17.5
4	114.6	18.0
5	114.6	18.0
6	114.6	18.0
7	117.8	18.5
8	120.9	19.0
9	124.1	19.5
10	127.3	20.0
11	130.5	20.5
12	120.9	19.0

Pore Pressure Dissipation Tests (PPDT)

Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals can be used to measure equilibrium water pressure (at the time of the CPT). If conditions are hydrostatic, the equilibrium water pressure can be used to determine the approximate depth of the ground water table. A PPDT is conducted when penetration is halted at specific intervals determined by the field representative. The variation of the penetration pore pressure (*u)* with time is measured behind the tip of the cone and recorded.

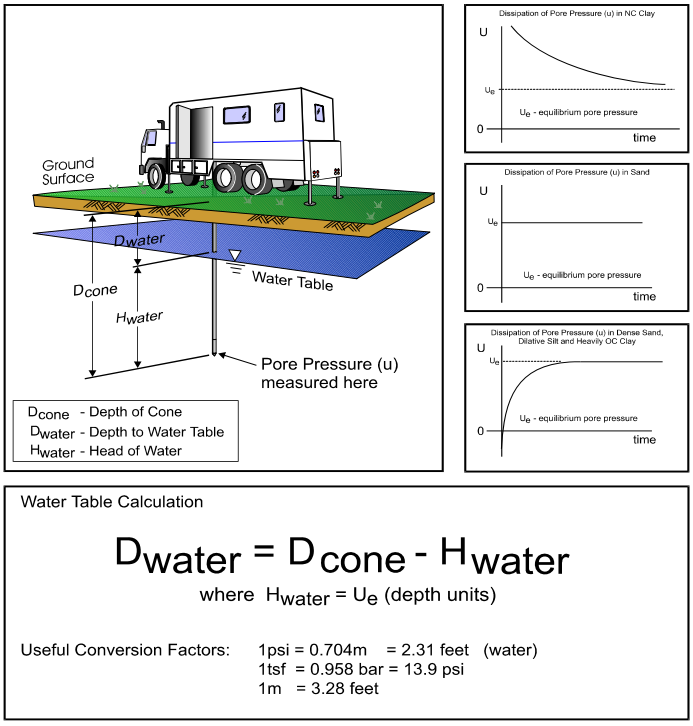
Pore pressure dissipation data can be interpreted to provide estimates of:

- Equilibrium piezometric pressure
- Phreatic Surface
- In situ horizontal coefficient of consolidation (c_h)
- In situ horizontal coefficient of permeability (k_h)

In order to correctly interpret the equilibrium piezometric pressure and/or the phreatic surface, the pore pressure must be monitored until it reaches equilibrium, *Figure PPDT*. This time is commonly referred to as t_{100}, the point at which 100% of the excess pore pressure has dissipated.

A complete reference on pore pressure dissipation tests is presented by Robertson et al. 1992 and Lunne et al. 1997.

A summary of the pore pressure dissipation tests are summarized in Table 1.



Water Table Calculation

$$D_{water} = D_{cone} - H_{water}$$

where $H_{water} = U_e$ (depth units)

Useful Conversion Factors: 1psi = 0.704m = 2.31 feet (water)
1tsf = 0.958 bar = 13.9 psi
1m = 3.28 feet

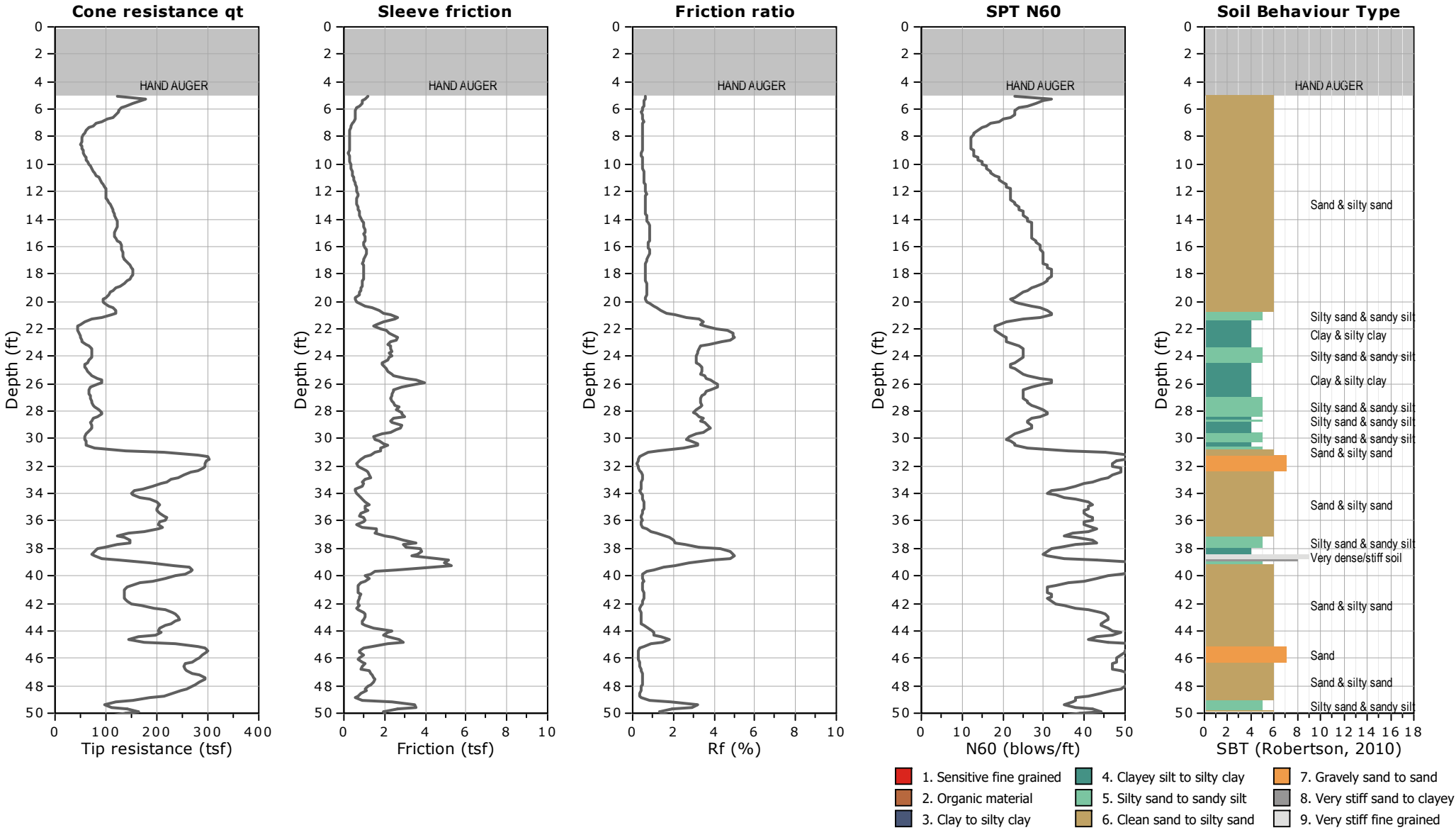
Figure PPDT

GREGG DRILLING, INC.
www.greggdrilling.com

CPT: CPT-01

CLIENT: STEVENS, FERRONE & BAILEY
SITE: 2600 WILBUR AVE., ANTIOCH, CA

FIELD REP: RICHARD CERAOLO
Total depth: 50.20 ft, Date: 12/23/2019

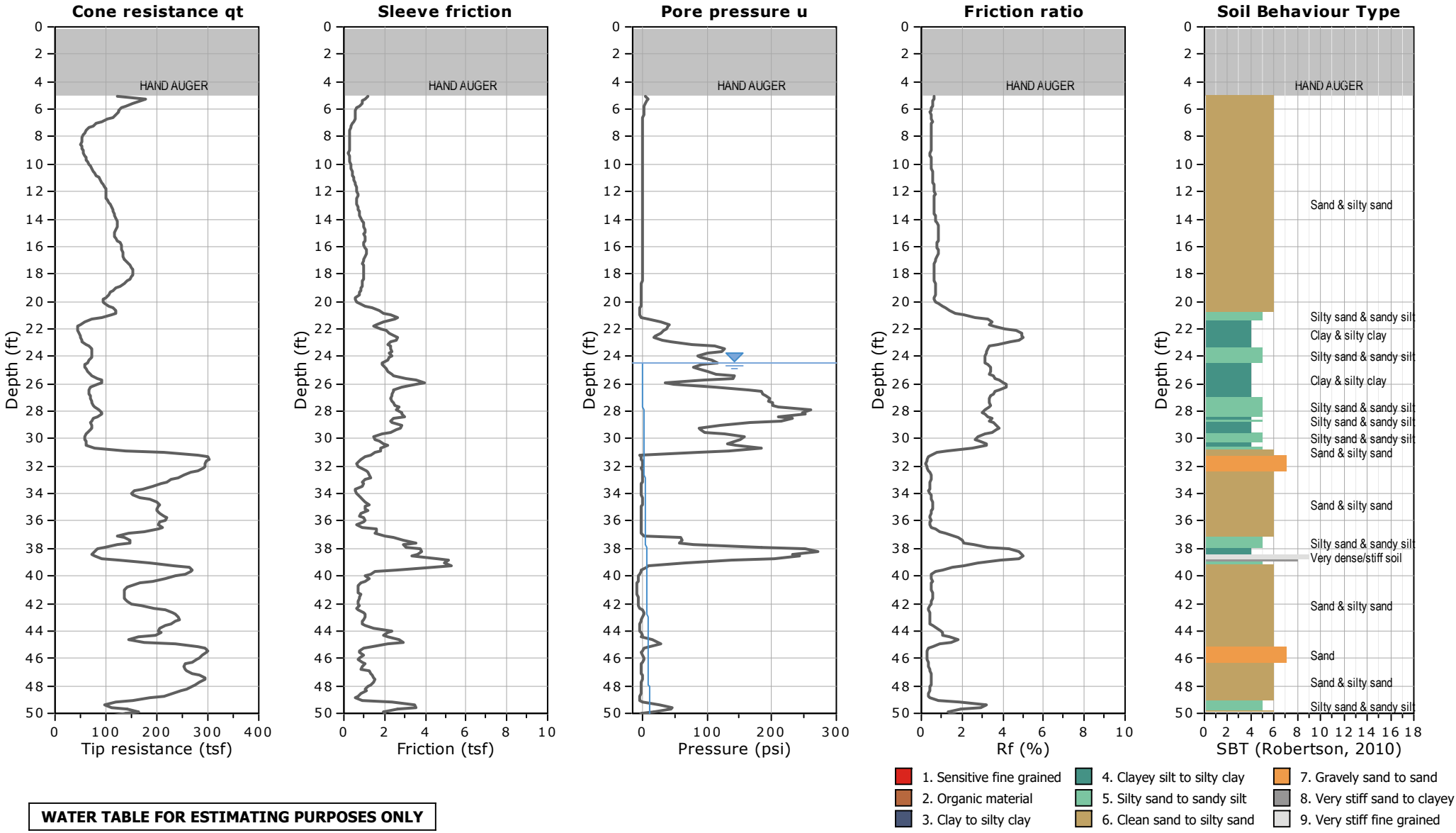


GREGG DRILLING, INC.
www.greggdrilling.com

CPT: CPT-01

CLIENT: STEVENS, FERRONE & BAILEY
SITE: 2600 WILBUR AVE., ANTIOCH, CA

FIELD REP: RICHARD CERAOLO
Total depth: 50.20 ft, Date: 12/23/2019

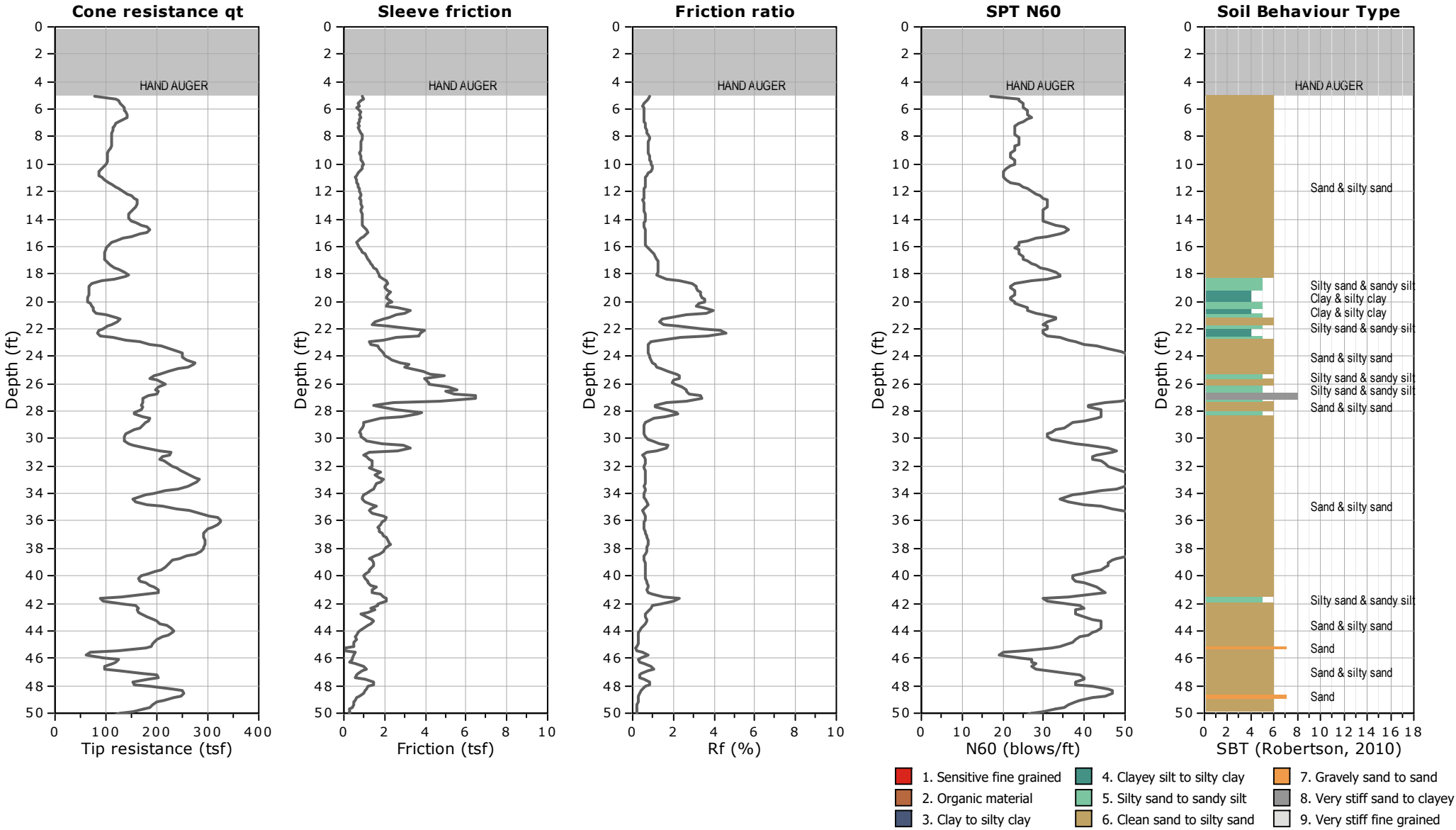


WATER TABLE FOR ESTIMATING PURPOSES ONLY

CPT: CPT-02

CLIENT: STEVENS, FERRONE & BAILEY
SITE: 2600 WILBUR AVE., ANTIOCH, CA

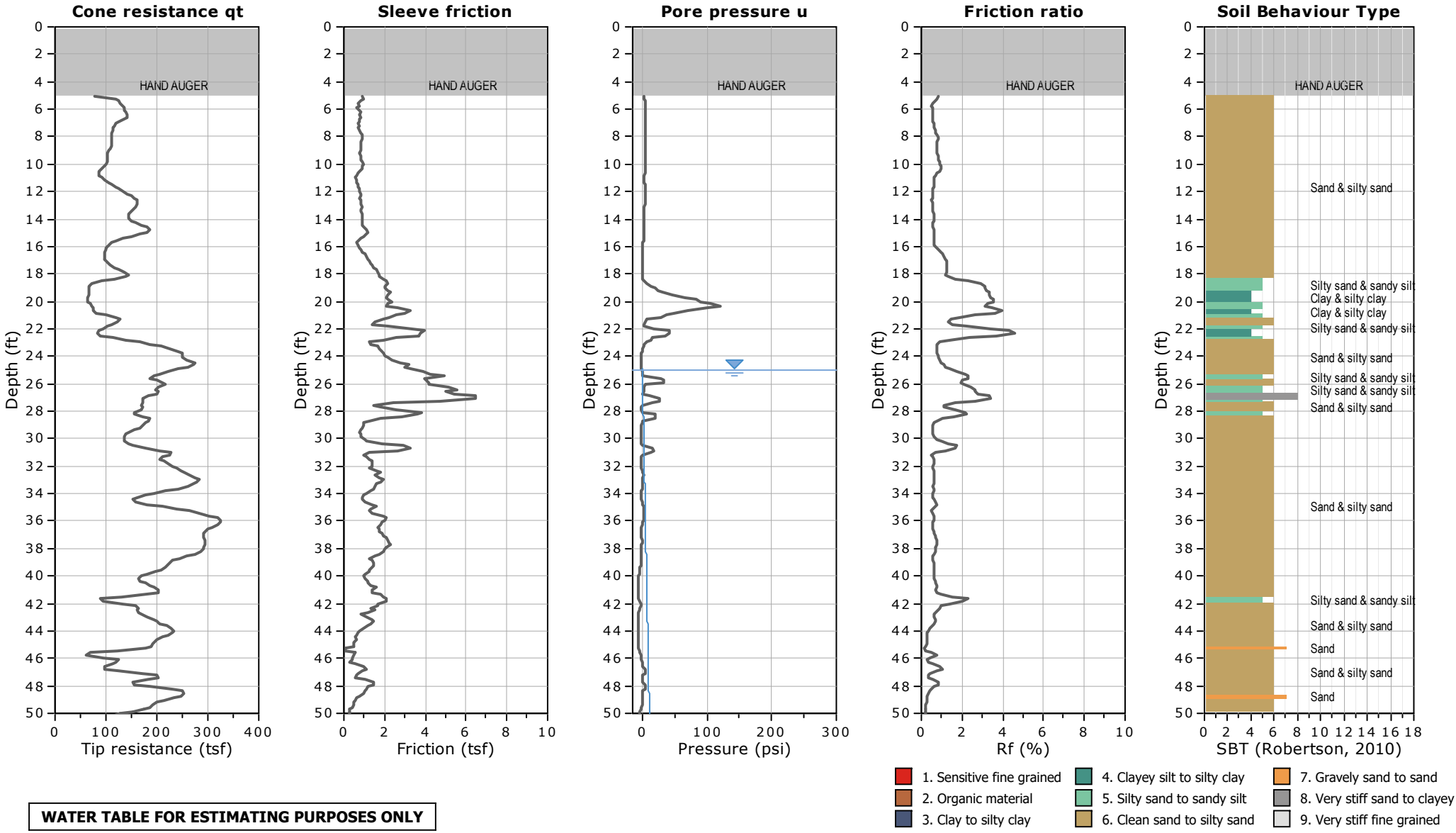
FIELD REP: RICHARD CERAOLO
Total depth: 50.20 ft, Date: 12/23/2019



CPT: CPT-02

CLIENT: STEVENS, FERRONE & BAILEY
SITE: 2600 WILBUR AVE., ANTIOCH, CA

FIELD REP: RICHARD CERAOLO
Total depth: 50.20 ft, Date: 12/23/2019



WATER TABLE FOR ESTIMATING PURPOSES ONLY

GREGG DRILLING, INC.
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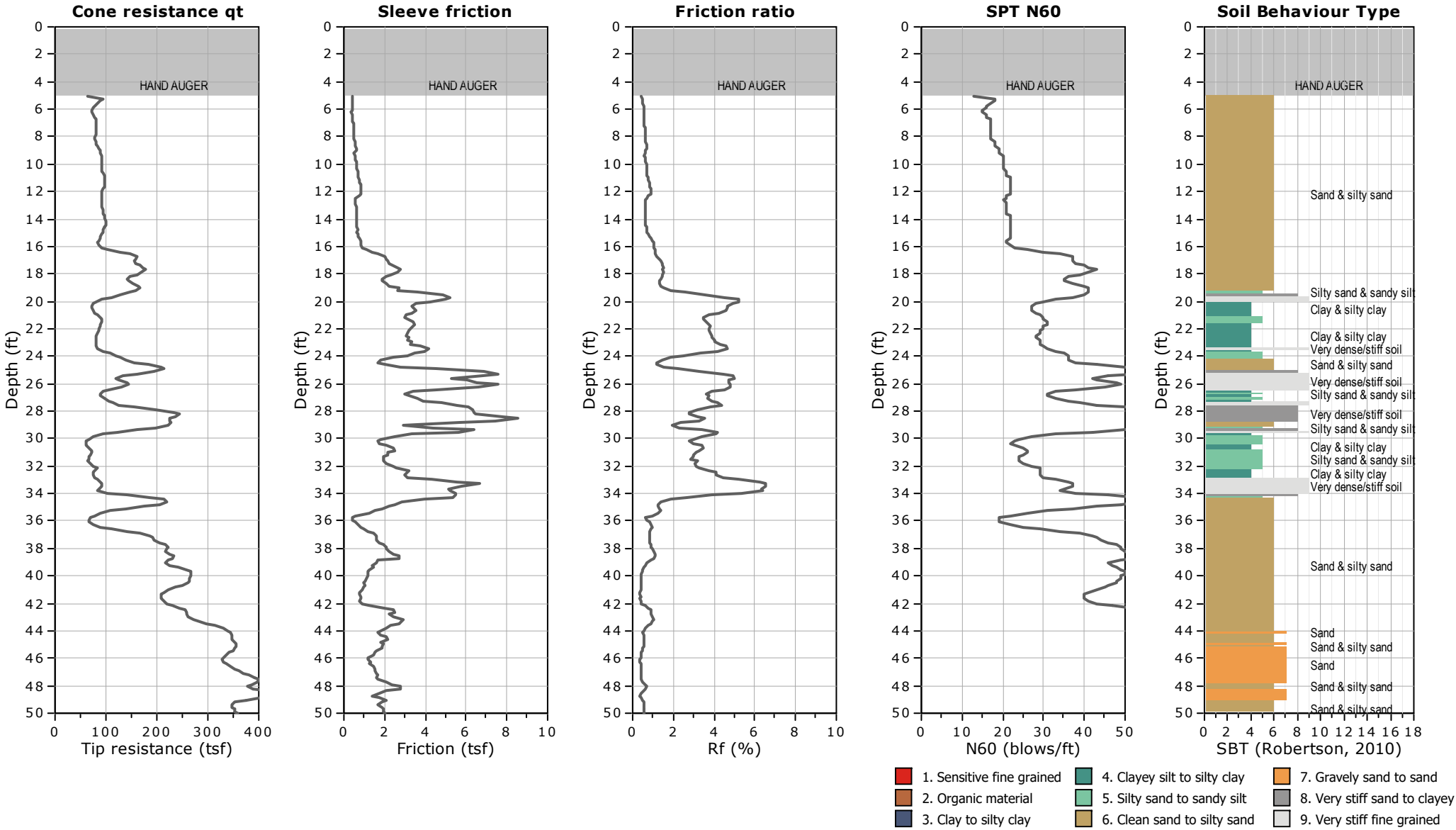
CPT: CPT-03

CLIENT: STEVENS, FERRONE & BAILEY
SITE: 2600 WILBUR AVE., ANTIOCH, CA

FIELD REP: RICHARD CERAOLO
Total depth: 50.20 ft, Date: 12/23/2019



GREGG DRILLING, INC.
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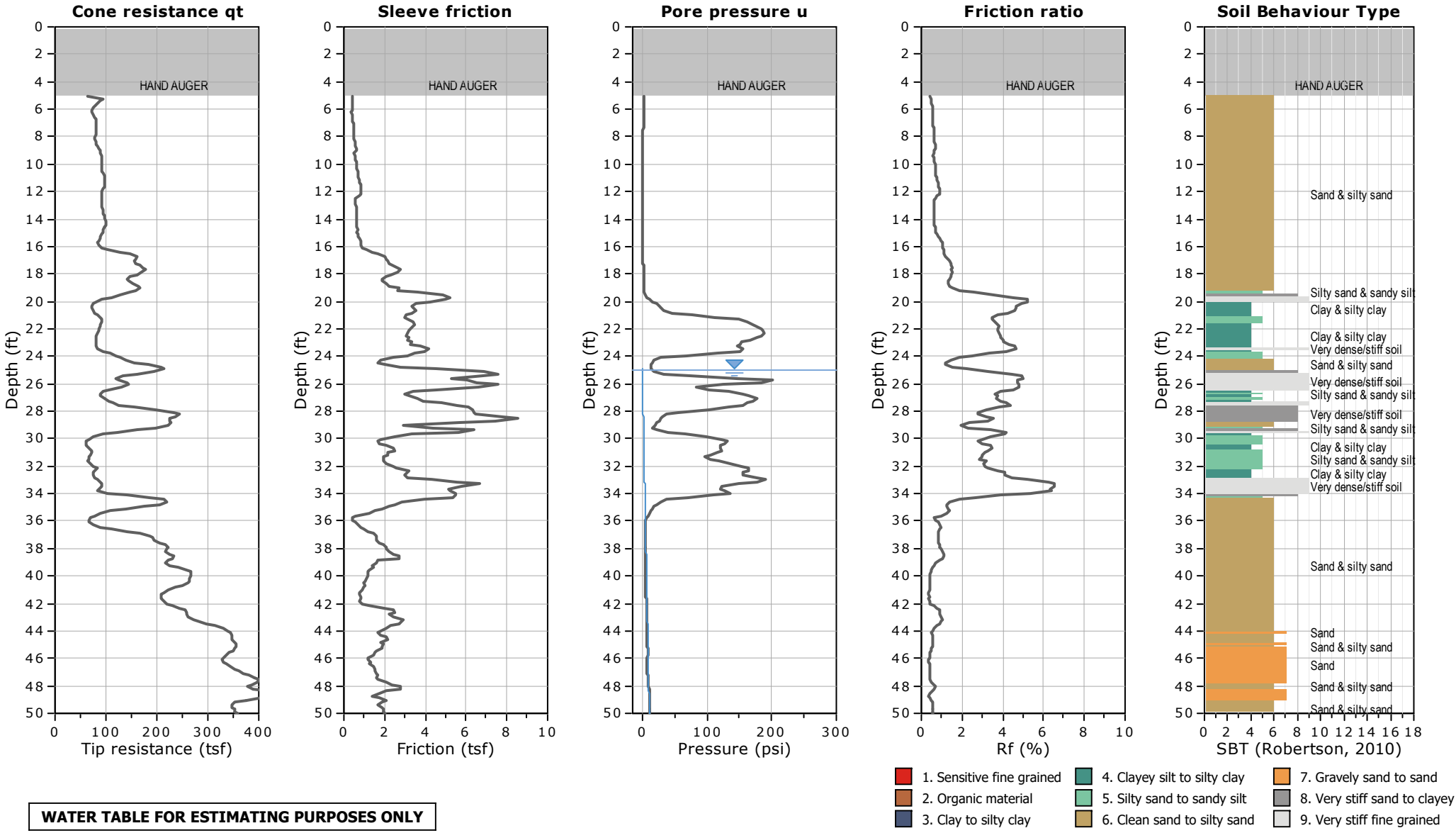
CPT: CPT-03

CLIENT: STEVENS, FERRONE & BAILEY
SITE: 2600 WILBUR AVE., ANTIOCH, CA

FIELD REP: RICHARD CERAOLO
Total depth: 50.20 ft, Date: 12/23/2019

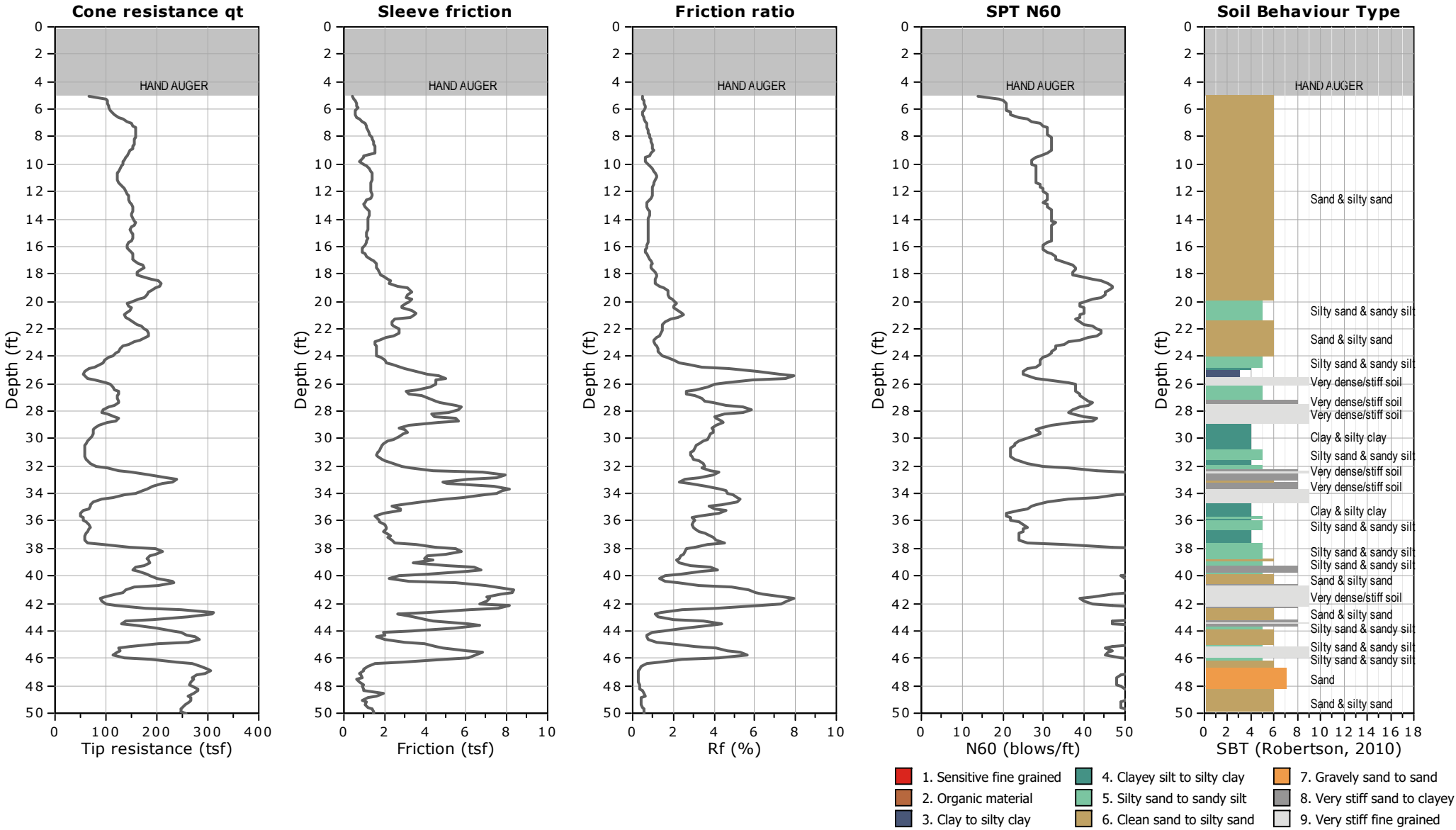


WATER TABLE FOR ESTIMATING PURPOSES ONLY

CPT: CPT-04

CLIENT: STEVENS, FERRONE & BAILEY
SITE: 2600 WILBUR AVE., ANTIOCH, CA

FIELD REP: RICHARD CERAOLO
Total depth: 50.20 ft, Date: 12/23/2019



GREGG DRILLING, INC.
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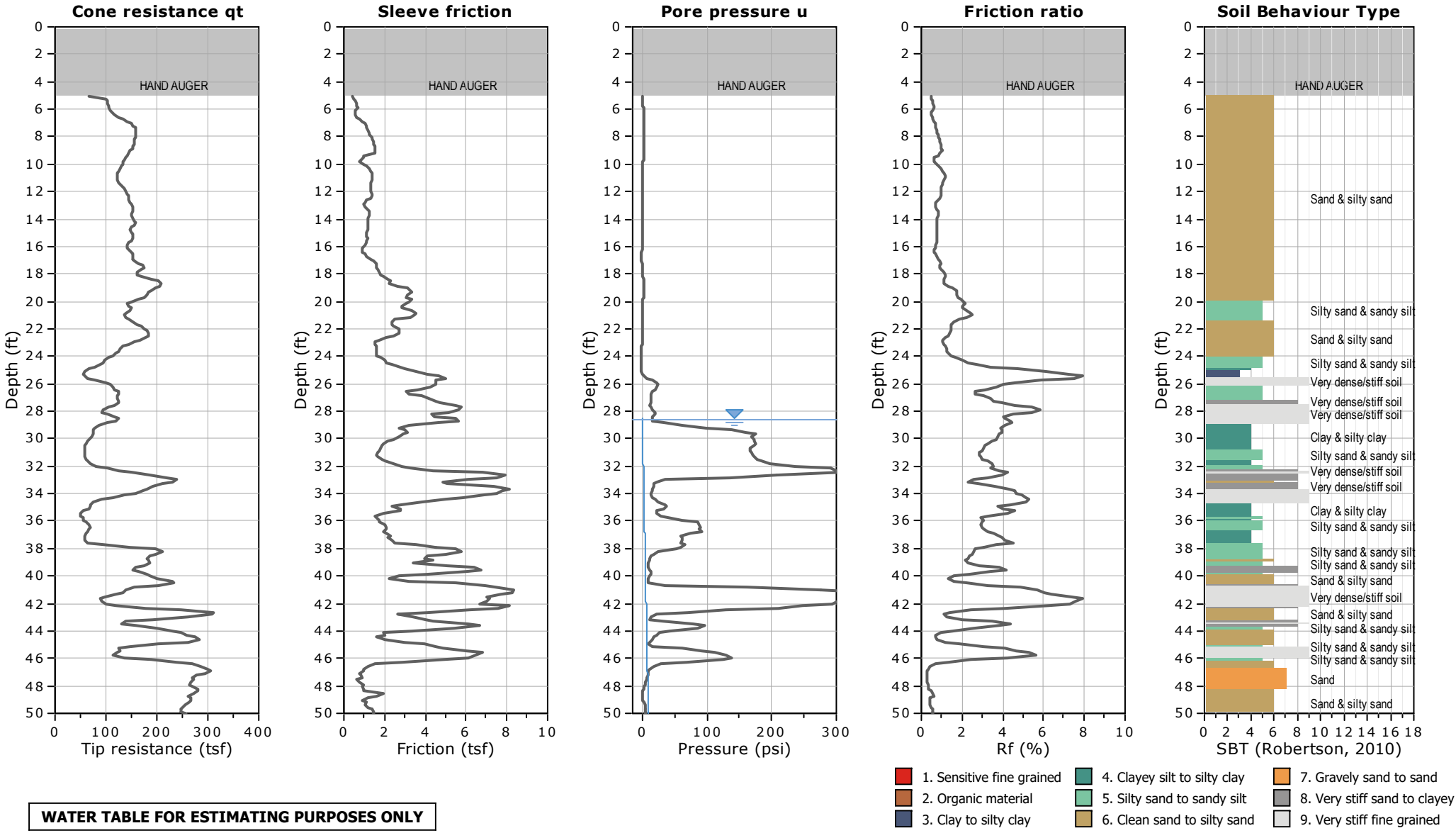
CPT: CPT-04

CLIENT: STEVENS, FERRONE & BAILEY
SITE: 2600 WILBUR AVE., ANTIOCH, CA

FIELD REP: RICHARD CERAOLO
Total depth: 50.20 ft, Date: 12/23/2019

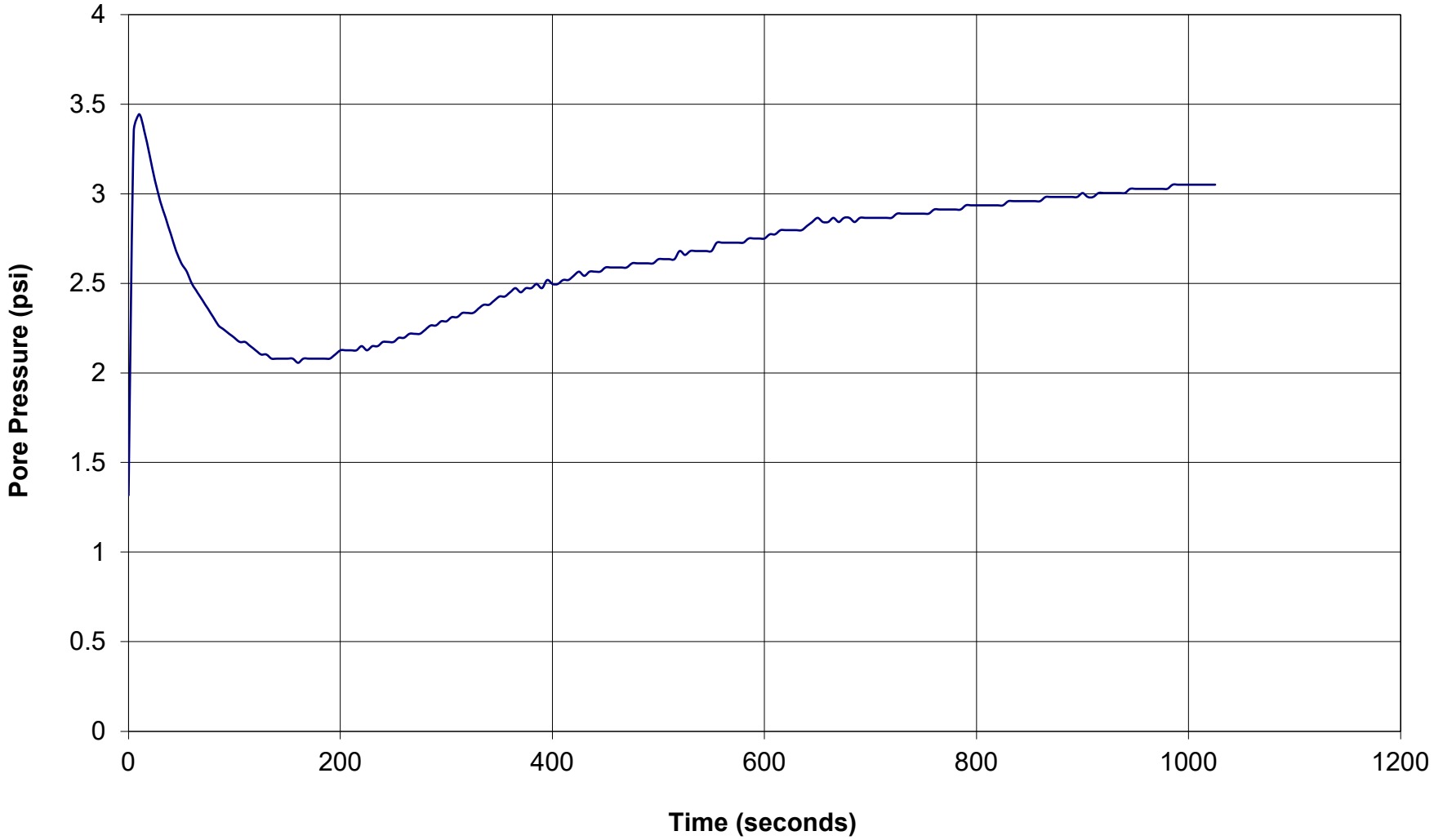


WATER TABLE FOR ESTIMATING PURPOSES ONLY

GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

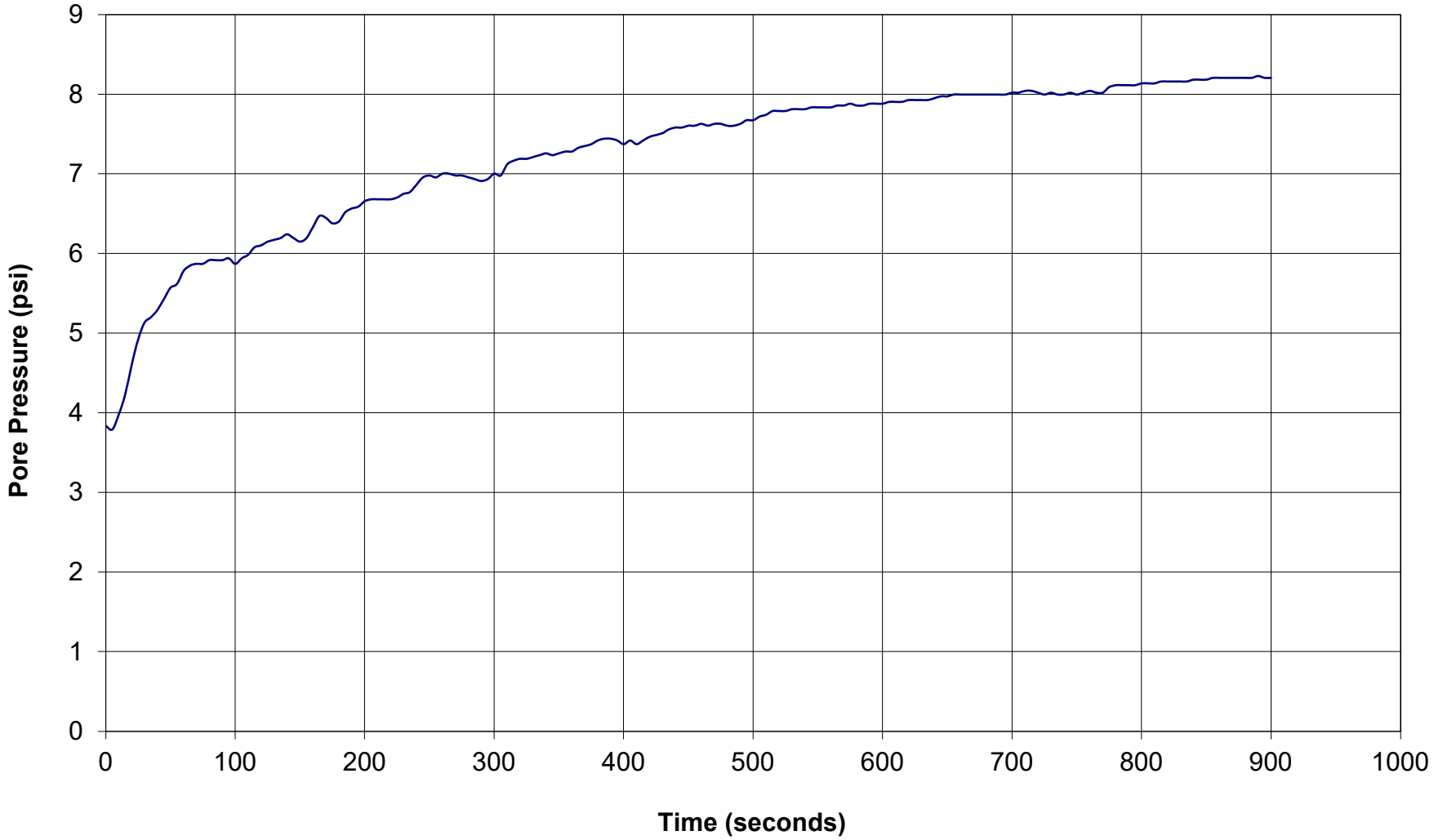
Sounding: CPT-01
Depth (ft): 31.66
Site: 2600 Wilbur Ave-
Engineer: Richard Ceraolo



GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: CPT-04
Depth (ft): 47.74
Site: 2600 Wilbur Ave-
Engineer: Richard Ceraolo



UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		grf	ltr	Description
Coarse Grained Soils	Gravel Gravelly Soils		GW	Well-graded gravels or gravel sand mixtures, little or no fines
			GP	Poorly-graded gravels or gravel sand mixture, little or no fines
			GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	Sand And Sandy Soils		SW	Well-graded sands or gravelly sands, little or no fines
			SP	Poorly-graded sands or gravelly sands, little or no fines
			SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, and-clay mixtures

Major Divisions		grf	ltr	Description
Soils	Silts And Clays LL < 50		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silt-clays of low plasticity
	Silts And Clays LL > 50		MH	Inorganic silts, micaceous or diatomaceous fine or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity
Highly Organic Soils			PT	Peat and other highly organic soils

GRAIN SIZES

U.S. STANDARD SERIES SIEVE: 200 | 40 | 10 | 4

CLEAR SQUARE SIEVE OPENINGS: 3/4" | 3" | 12"

Silts and Clays	Sand			Gravel		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		

RELATIVE DENSITY

Sands and Gravels	Blows/Foot*
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Over 50

CONSISTENCY

Silts and Clays	Blows/Foot*	Strength (tsf)**
Very Soft	0 - 2	0 - 1/4
Soft	2 - 4	1/4 - 1/2
Firm	4 - 8	1/2 - 1
Stiff	8 - 16	1 - 2
Very Stiff	16 - 32	2 - 4
Hard	Over 32	Over 4

*Number of Blows for a 140-pound hammer falling 30 inches, driving a 2-inch O.D. (1-3/8" I.D.) split spoon sampler.
**Unconfined compressive strength.

SYMBOLS & NOTES

- Standard Penetration sampler (2" OD Split Barrel)
- Modified California sampler (3" OD Split Barrel)
- California Sampler (2.5" OD Split Barrel)
- Shelby Tube
- Pitcher Barrel
- HQ Core
- Ground Water level initially encountered
- Ground Water level at end of drilling

PI = Plasticity Index
LL = Liquid Limit
R = R-Value

Increasing Visual Moisture Content

Saturated
Wet
Moist
Damp
Dry

Constituent Percentage

trace	<5%
some	5-15%
with	16-30%
-y	31-49%

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

KEY TO EXPLORATORY BORING LOGS

2600 WILBUR AVENUE
Antioch, California

PROJECT NO.	DATE	FIGURE NO.
880-1	January 2020	A-1

KEY 880-1.GPJ STEVENS FERRONE BAILEY.GDT 12/30/19

DRILL RIG Hand Auger	SURFACE ELEVATION ---	LOGGED BY RAC
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 2-inch	DATE DRILLED 12/23/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
FILL: SAND (SM), light brown, fine- to coarse-grained, gravelly(angular to subangular), silty, dry.	medium dense		0.0			6			At 0' to 1.5': Percent Passing #200 Sieve = 41%
Hand auger refusal due to gravel.									
Bottom of Boring = 1.5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			2.5 5.0 7.5						

EXPLORATORY BORING LOG 880-1.GPJ STEVENS FERRONE BAILEY.GDT 1/10/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

2600 WILBUR AVENUE
Antioch, California

PROJECT NO.	DATE	BORING NO.
880-1	**January 2020**	**SFB-1**

DRILL RIG Hand Auger	SURFACE ELEVATION ---	LOGGED BY RAC
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 2-inch	DATE DRILLED 12/23/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
FILL: SAND (SC), grayish-brown, fine- to coarse-grained, silty, clayey, with gravel(angular to subangular), dry to damp. Hand auger refusal due to gravel.	medium dense		0.0			10			At 0' to 1': Liquid Limit = 33% Plasticity Index = 19 Percent Passing #200 Sieve = 49%
Bottom of Boring = 1.5 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			2.5 5.0 7.5						

EXPLORATORY BORING LOG 880-1.GPJ STEVENS FERRONE BAILEY.GDT 1/10/20

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

2600 WILBUR AVENUE
Antioch, California

PROJECT NO.	DATE	BORING NO.
880-1	**January 2020**	**SFB-2**

DRILL RIG Hand Auger	SURFACE ELEVATION ---	LOGGED BY RAC
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 2-inch	DATE DRILLED 12/23/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SAND (SP-SM), brown, fine- to medium-grained, some silt, damp.	medium dense		0.0			9			At 1.08' to 1.75': Percent Passing #200 Sieve = 15%
			2.5						
Bottom of Boring = 3 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			5.0						
			7.5						

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

2600 WILBUR AVENUE
Antioch, California

PROJECT NO.	DATE	BORING NO.
880-1	**January 2020**	**SFB-3**

DRILL RIG Hand Auger	SURFACE ELEVATION ---	LOGGED BY RAC
DEPTH TO GROUND WATER Not Encountered	BORING DIAMETER 2-inch	DATE DRILLED 12/23/19

DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	SPT N-VALUE	WATER CONTENT (%)	DRY DENSITY (PCF)	UNC. COMP. (KSF)	OTHER TESTS
DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE							
SAND (SP-SM), brown, fine- to medium-grained, some silt, damp.	medium dense		0.0						
			2.5						
Bottom of Boring = 3 feet Notes: Stratification is approximate, variations must be expected. Blowcounts converted to SPT N-values. See Report for additional details.			5.0						
			7.5						

EXPLORATORY BORING LOG 880-1.GPJ STEVENS FERRONE BAILEY.GDT 1/10/20

Stevens, Ferrone & Bailey Engineering Company, Inc.

1600 Willow Pass Court
Concord, CA 94520
Tel: (925) 688-1001

EXPLORATORY BORING LOG

2600 WILBUR AVENUE
Antioch, California

PROJECT NO.	DATE	BORING NO.
880-1	**January 2020**	**SFB-4**

APPENDIX B

Laboratory Investigation

APPENDIX B
Laboratory Investigation

Our recent laboratory testing program for the proposed site development at 2600 Wilbur Avenue in Antioch, California, was directed toward a quantitative and qualitative evaluation of the physical and mechanical properties of the soils underlying the site.

The natural water content was determined on three samples of the subsurface soils. The water contents are recorded on the boring logs at the appropriate sample depths.

Atterberg Limit determinations were performed on one sample of the subsurface soils to determine the range of water content over which these materials exhibit plasticity. These values are used to classify the soil in accordance with the Unified Soil Classification System and to indicate the soil's compressibility and expansion potentials. The results of the test are presented on the boring logs at the appropriate sample depths and are also attached to this appendix.

Passing the #200 sieve gradation testing were performed on three samples of the subsurface soils. These tests were performed to assist in the classification of the soils and to determine their grain size distribution. The results of the tests are presented on the boring logs at the appropriate sample depths.

Two onsite soil sample was tested for pH (ASTM D4972), chlorides (ASTM D4327), sulfates (ASTM D4327), sulfides (ASTM D4658M), resistivity at 100% saturation (ASTM G57), and Redox potential (ASTM D1498) for use in evaluating the potential for corrosion on concrete and buried metal such as utilities and reinforcing steel. The results of these tests are included in this appendix. We recommend these test results be forwarded to your underground contractors, pipeline designers, and foundation designers and contractors.

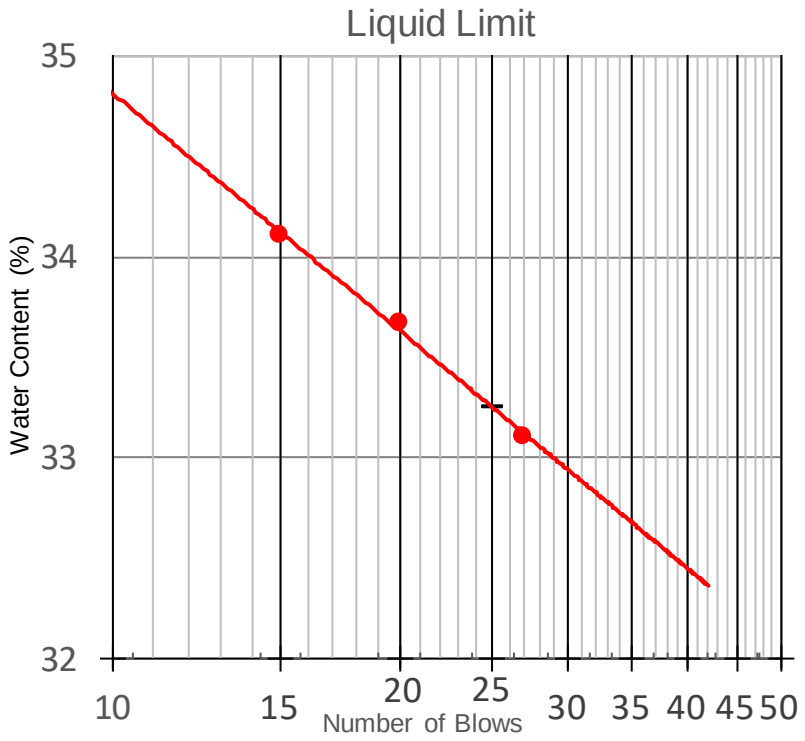
Stevens Ferrone & Bailey Engineering Company, Inc

Atterberg Limits Test – ASTM D4318

Project Number: 880-1 **Project Name:** 2600 Wilbur Avenue

Boring/Sample No: SFB-2 **Depth:** 0-12" **Date:** 01-03-20

Description of Sample: Gray brown clayey silty SAND with gravel (SC) **Tested By** R

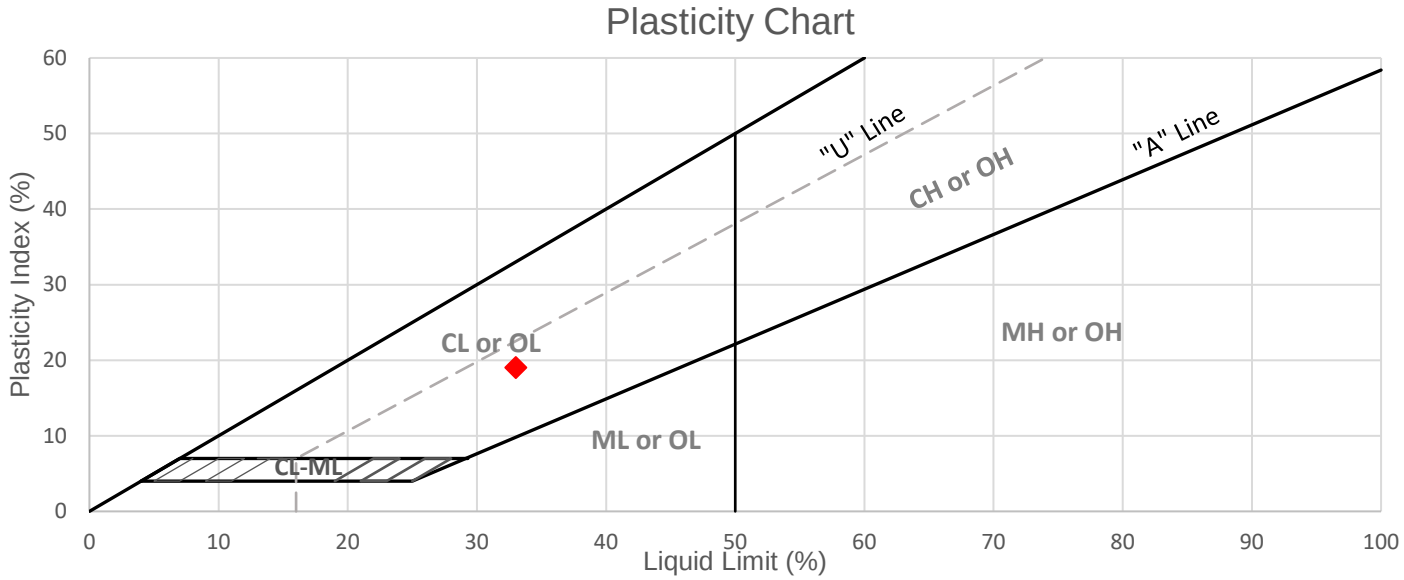


Plastic Limit Data

Trial	1	2	Ave
Water Content (%)	14.1	13.7	14

Data Summary

Liquid Limit	**33**
Plastic Limit	**14**
Plasticity Index	**19**
Natural Water Content	**9.5**
Liquidity Index	**-0.237**
% Passing #200 Sieve	**48.9**



California State Certified Laboratory No. 2153

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

20 January, 2020

Job No. 2001007
Cust. No. 11486

Mr. Ken Ferrone
Stevens, Ferrone & Bailey
1600 Willow Pass Court
Concord, CA 94520

Subject: Project No.: SFB 880-1
Project Name: 2600 Wilbur Avenue, Antioch
Corrosivity Analysis – ASTM Test Methods

Dear Mr. Ferrone:

Pursuant to your request, CERCO Analytical has analyzed the soil samples submitted on January 02, 2020. Based on the analytical results, this brief corrosivity evaluation is enclosed for your consideration.

Based upon the resistivity measurements, Sample No.001 is classified as "severely corrosive: and Sample No.002 is classified as "moderately corrosive". All buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric coated steel or iron should be properly protected against corrosion depending upon the critical nature of the structure. All buried metallic pressure piping such as ductile iron firewater pipelines should be protected against corrosion.

The chloride ion concentrations are none detected & 780 mg/kg. They are determined to be sufficient to attack steel embedded in a concrete mortar coating. Chloride ion concentrations greater than 300 mg/kg are considered corrosive to embedded reinforcing steel; and, as such, the concrete mix design shall be adjusted accordingly by a qualified corrosion engineer.

The sulfate ion concentrations are none detected & 200 mg/kg and are determined to be sufficient to potentially be detrimental to reinforced concrete structures and cement mortar-coated steel at these locations. Therefore, concrete that comes into contact with this soil should use sulfate resistant cement such as Type II, with a maximum water-to-cement ratio of 0.55.

The pH of the soils are 7.58 & 7.74, which does not present corrosion problems for buried iron, steel, mortar-coated steel and reinforced concrete structures.

The redox potentials are 310-mV & 350-mV and are indicative of potentially "slightly corrosive" soils resulting from anaerobic soil conditions.

This corrosivity evaluation is based on general corrosion engineering standards and is non-specific in nature. For specific long-term corrosion control design recommendations or consultation, please call *JDH Corrosion Consultants, Inc. at (925) 927-6630.*

We appreciate the opportunity of working with you on this project. If you have any questions, or if you require further information, please do not hesitate to contact us.

Very truly yours,
CERCO ANALYTICAL, INC.

J. Darby Howard, Jr., P.E.
President

JDH/jdl
Enclosure

California State Certified Laboratory No. 2153

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

Client: Stevens, Ferrone & Bailey
Client's Project No.: 880-1
Client's Project Name: 2600 Wilbur Avenue, Antioch
Date Sampled: 23-Dec-19
Date Received: 2-Jan-20
Matrix: Soil
Authorization: Signed Chain of Custody

Date of Report: 20-Jan-2020

Job/Sample No.	Sample I.D.	Redox (mV)	pH	Conductivity (umhos/cm)*	Resistivity (100% Saturation) (ohms-cm)	Sulfide (mg/kg)*	Chloride (mg/kg)*	Sulfate (mg/kg)*
2001007-001	SFB-2 @ 12-18"	310	7.58	-	490	-	780	200
2001007-002	SFB-3 @ 0-13"	350	7.74	-	4,100	-	N.D.	N.D.

Method:	ASTM D1498	ASTM D4972	ASTM D1125M	ASTM G57	ASTM D4658M	ASTM D4327	ASTM D4327
Reporting Limit:	-	-	10	-	50	15	15
Date Analyzed:	13-Jan-2020	13-Jan-2020	-	20-Jan-2020	-	13-Jan-2020	13-Jan-2020

Cheryl McMillen
Laboratory Director

* Results Reported on "As Received" Basis
N.D. - None Detected

Quality Control Summary - **All laboratory quality control parameters were found to be within established limits**

APPENDIX C

GeoSolve Boring Logs

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1807 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name	Garaventa properties	Boring Name	B-1
Job/Site Name		Dilling Started	9:00 am 11.22.19
Location	2600 Wilbur Ave. Antioch, CA	Drilling Completed	10:30 am 11.22.19
Project Number	2019-26	Groung Surface Elevation	
Driller	Penelope Drilling	Boring Location	
Drilling Method	Direct-push	Total Boring Depth	30 feet
Boring Diameter	2.5"		
Logged by	RDL	Depth to Water (First Encountered)	27.5' ▽ 9:40
Reviewed by		Depth to Water (Static)	25' ▼ 9:50
Notes			

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
			B1-1	0–1		Fill	Gray baserock gravel and sand (Fill), dry.	1
				1–4		SM	Dark brown silty fine SAND (SM), damp; no odor.	4
			B1-5	4–15		SP	Light brown fine SAND with silt (SP), damp; no odor.	
			B1-15					

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Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name
Location
Project Number
Driller
Drilling Method
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name B-1
Dilling Started
Drilling Completed
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) ▽
Depth to Water (Static) ▼

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				15				
				16		SP	Light brown fine SAND with silt (SP), damp; no odor.	
				17				
				18				
				19			Brown silty CLAY with fine sand (CL), very moist; no odor	
				20				
				21		CL		
				22				
				23				
				24				
				25	▼			
				26		SC	Tan to light brown Clayey fine SAND (SC), very moist; no odor	
				27	▽			
				28			Gray brown silty fine SAND (SM), wet; no odor.	
				29		SM		
				30				

End of boring @ 30 feet.

GeoSolve, Inc.
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Address: 1807 Santa Rita Rd, Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name: Garaventa Properties
Job/Site Name:
Location:
Project Number:
Driller: Same as
Drilling Method:
Boring Diameter: B-1
Logged by:
Reviewed by:
Notes:

Boring Name: B-2
Dilling Started: 10:40 11.22.19
Drilling Completed: 11:50 11.22.19
Groung Surface Elevation:
Boring Location:
Total Boring Depth:

Depth to Water (First Encountered): 26 ▽ 11:00 am
Depth to Water (Static): 25 ▼ 11:10 am

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
			B2-1	0–1		Fill	Gray baserock, Sandy GRAVEL (Fill), dry.	1
				1–4		Fill	Dark brown Clayey GRAVEL with fine sand (Fill) brick fragments; slight petroleum odor.	5
			B2-5	5–10		SP	Dark brown fine to medium SAND (SP), moist; no odor	10
				10–15		SP	Tan fine to medium SAND (SP), moist; no odor.	

GeoSolve, Inc.
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Address: 1807 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name: Garaventa properties
Job/Site Name:
Location:
Project Number: Same as B-1
Driller:
Drilling Method:
Boring Diameter:
Logged by:
Reviewed by:
Notes:

Boring Name: B-2
Dilling Started:
Drilling Completed:
Groung Surface Elevation:
Boring Location:
Total Boring Depth:
Depth to Water (First Encountered): ▽
Depth to Water (Static): ▼

Sample Condition: Undisturbed Sample; Disturbed Sample; No Recovery

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				15				
				16		SP	Tan fine to medium SAND (SP), moist; no odor.	
				17				
				18		CL	Brown gray silty CLAY (CL), moist; no odor	
				19				
			B2-20	20		SM	Dark brown silty fine SAND (SM), moist; slight chemical odor.	
				21				
				22				
				23				
				24				
				25	▼			
				26	▽			
				27				
				28				
				29				
				30				

End of boring @ 30 feet

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1807 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name Same as
Location
Project Number
Driller
Drilling Method B-1
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name B-3
Dilling Started 12:10 pm 11.22.19
Drilling Completed 1:00 pm 11.22.19
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) 22.5', ▽ 12:35
Depth to Water (Static) 20 ▼ 12:45

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				0		Fill		
		B3-1		1			Gray basecock, GRAVEL with sand (Fill), dry	
				2		Fill	Dark brown fine sandy GRAVEL with silt (Fill), brick fragments, damp; no odor	
				3				
				4				
		B3-5		5				
				6		SP	Dark brown-gray fine SAND with silt (SP), moist; no odor	
				7				
				8				
				9				
				10				
				11			Tan to light brown fine to medium SAND (SP), moist; no odor	
				12				
				13				
				14				
				15				

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1907 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name
Location — Same as
Project Number
Driller
Drilling Method — B-1
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name — B-3
Dilling Started
Drilling Completed
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) ▽
Depth to Water (Static) ▼

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				15				
				16			Tan to light brown fine to medium SAND (SP); moist; no odor	
				17		SP		
				18				
				19				
	13:30		B3-20	20		▼		
				21		CL	Brown silty CLAY (CL), very moist; no odor	
				22		▽		
				23			Brown silty fine SAND (SM), wet; no odor.	
				24		SM		
				25				
				26				
				27				
				28				
				29		CL	Gray brown silty CLAY (CL), saturated; no odor	
				30				

End of boring @ 30 feet

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1807 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name
Location
Project Number — Same as B-1
Driller
Drilling Method
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name B-4
Dilling Started 1:10 pm 11.22.19
Drilling Completed 1:40 pm 11.22.19
Groung Surface Elevation
Boring Location
Total Boring Depth ,

Depth to Water (First Encountered) 21' ▽ 1:20 pm
Depth to Water (Static) 20' ▼ 1:30 pm

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
			B4-1	0–1			Dark brown fine to medium SAND with Silt (SP), moist, no odor.	
				1–2				
				2–3				
				3–4		SP		
			B4-5	4–5				
				5–6				
				6–7				
				7–8				
				8–9				
				9–10				
				10–11				
				11–12				
				12–13				
				13–14				
				14–15				
			B4-15	15				

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1807 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name Same as
Location
Project Number
Driller
Drilling Method B-1
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name B-4
Dilling Started
Drilling Completed
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) ▽
Depth to Water (Static) ▼

Sample Condition
Undisturbed Sample
No Recovery
Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				15			Dark brown fine to medium SAND with silt (SP), moist; no odor	
				16				
				17				
				18				
				19				
				20			(grades to more silt @ 20 feet)	
				21				
				22				
				23		SP		
				24				
				25				
				26				
				27				
				28				
			B4-29	29			Gray brown silty CLAY (CL), saturated; no odor	
				30		CL		

End of boring @ 30 feet

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1607 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name
Location — same as B-1
Project Number
Driller
Drilling Method
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name B-5
Dilling Started 2:00 pm 11.22.19
Drilling Completed 3:00 pm 11.22.19
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) 24', ▽ 2:30
Depth to Water (Static) 24' ▼ 2:40

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
			B5-1	0–1		Fill	Gray baserock – ballast rock, dry	1
				1–10		SP	Brown fine SAND with silt (SP), dry; no odor.	10
			B5-5	5				
				10–15		SP	Tan fine SAND (SP), moist; no odor.	
			B5-15	15				

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1807 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name
Location
Project Number
Driller
Drilling Method
Boring Diameter
Logged by
Reviewed by
Notes

Same as B-5

Boring Name B-5
Dilling Started
Drilling Completed
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) ▽
Depth to Water (Static) ▼

Sample Condition: Undisturbed Sample; Disturbed Sample; No Recovery

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				15				
				16			Tan fine SAND (SP), moist;	
				17		SP	No odor	
				18				
				19				
				20		SP	Dark brown-gray medium SAND (SP), very moist; no odor	
				21				
				22		SM	Brown silty fine SAND (SM), very moist to wet; no odor	
				23				
				24	▽	▼	(Flowing sands @ 24 feet)	
				25				
				26			Reddish brown artesic medium to coarse SAND (SP),	
				27		SP	wet, no odor.	
				28				
				29				
				30				

End of boring @ 30 feet

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1807 Santa Rita Rd, Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name — Same as B-1
Location
Project Number
Driller
Drilling Method
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name — B-6
Dilling Started — 3:00 pm 11.22.19
Drilling Completed — 4:00 pm 11.22.19
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) — 23.5' ▽ 3:30 pm
Depth to Water (Static) — 22.5' ▼ 3:40 pm

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
			B6-1	0–1		SM	Tan silty fine SAND (SM), dry; no odor	
				1–5		SM	Dark reddish brown silty fine to medium SAND (SM), damp; no odor.	
			B6-5	5				
				5–8		SP	Buff-gray fine SAND with silt (SP), moist; no odor.	
			B6-15	14				

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1007 Santa Rita Rd, Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name
Location
Project Number — Same as B-1
Driller
Drilling Method
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name — B-6
Dilling Started
Drilling Completed
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) ▽
Depth to Water (Static) ▼

Sample Condition: Undisturbed Sample; Disturbed Sample; No Recovery

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				15				
				16		SP	Buff - gray fine SAND (SP), with silt moist; no odor	
				17				
				18				
				19				
				20		SP	Brown fine to medium SAND (SP), very moist; no odor.	
				21				
				22			(increasing silt @ 23 ~~feet~~)	
				23				
				24				
				25				
				26				
				27		SM	Gray brown silty fine SAND (SM), wet; no odor	
				28				
				29				
				30				

End of boring @ 30 feet

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1807 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name	[illegible]	Boring Name	B-7
Job/Site Name		Dilling Started	9:00 am 11.23.19
Location	Same as	Drilling Completed	10:30 am 11.23.19
Project Number		Groung Surface Elevation	
Driller		Boring Location	
Drilling Method	B-1	Total Boring Depth	
Boring Diameter			
Logged by		Depth to Water (First Encountered)	25' ▽ 10:00 am
Reviewed by		Depth to Water (Static)	25' ▼ 10:10 am
Notes			

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				0			2-inches of asphalt	
			B7-1	1		SP	Brown fine SAND with silt (SP), damp; no odor	
				2				
				3				
				4				
			B7-5	5				
				6				
				7				
				8				
				9				
				10				
				11		SP	Tan fine SAND (SP), moist; no odor	
				12				
				13				
			B7-15	14				
				15				

GeoSolve, Inc.
Geoscience Solutions Rather than Status-Quo
Address: 1007 Santa Rita Rd, Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name
Location — Same as
Project Number
Driller — B-1
Drilling Method
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name — B-7
Dilling Started
Drilling Completed
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) ▽
Depth to Water (Static) ▼

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				15				
				16			Tan fine SAND (SP), moist; no odor	
				17		SP		
				18				
				19				
				20				
				21		SP	Dark brown - gray medium SAND (SP), very moist; no odor	
				22				
				23				
				24		SM	Brown silty fine SAND (SM), very moist to wet; no odor	
				25	▽ ▼		(flowing sands @ 25 feet)	
				26				
				27			Reddish brown arkosic medium SAND (SP), wet; no odor	
				28		SP		
				29				
				30				

End of boring @ 30 feet

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1907 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name
Location Same as B-1
Project Number
Driller
Drilling Method
Boring Diameter
Logged by
Reviewed by
Notes

Boring Name B-8
Dilling Started 10:45 am 11.23.19
Drilling Completed 12:30 am 11.23.19
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) 25' ▽ 11:30 am
Depth to Water (Static) 25 ▼ 11:40 am

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				0			2-inches of asphalt	
			B8-1	1			Brown fine SAND with silt (SP), damp; No odor	
				2				
				3				
				4				
			B8-5	5		SP		
				6				
				7				
				8				
				9				
				10				
				11				
				12				
				13		SP	Tan fine SAND (SP), moist; no odor	
				14				
			B8-15	15				

GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
Address: 1607 Santa Rita Rd. Suite D-165
Pleasanton, California 94566

BORING LOG

Client Name
Job/Site Name
Location — same as
Project Number
Driller
Drilling Method
Boring Diameter — B-1
Logged by
Reviewed by
Notes

Boring Name — B-8
Dilling Started
Drilling Completed
Groung Surface Elevation
Boring Location
Total Boring Depth

Depth to Water (First Encountered) ▽
Depth to Water (Static) ▼

Sample Condition: Undisturbed Sample; No Recovery; Disturbed Sample

Date Sampled	Time Sampled	PID (ppm)	Sample ID	Depth (ft bgs)	Graphic Log	U.S.C.S	Lithologic Description	Contact Depth (ft bgs)
				15				
				16			Tan fine SAND (SP), moist; no odor	
				17		SP		
				18				
				19				
				20				
				21			Dark brown-gray medium SAND (SP), very moist; no odor	
				22		SP		
				23				
				24			Brown silty fine SAND (SM), very moist to saturated; no odor (flowing sands @ 25 feet)	
				25		SM		
				26				
				27				
				28			Reddish brown arkosic medium to Coarse SAND (SP), wet; no odor	
				29		SP		
				30				

End of boring @ 30 feet

APPENDIX D

Liquefaction Analyses Results

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
tel. 925-688-1001

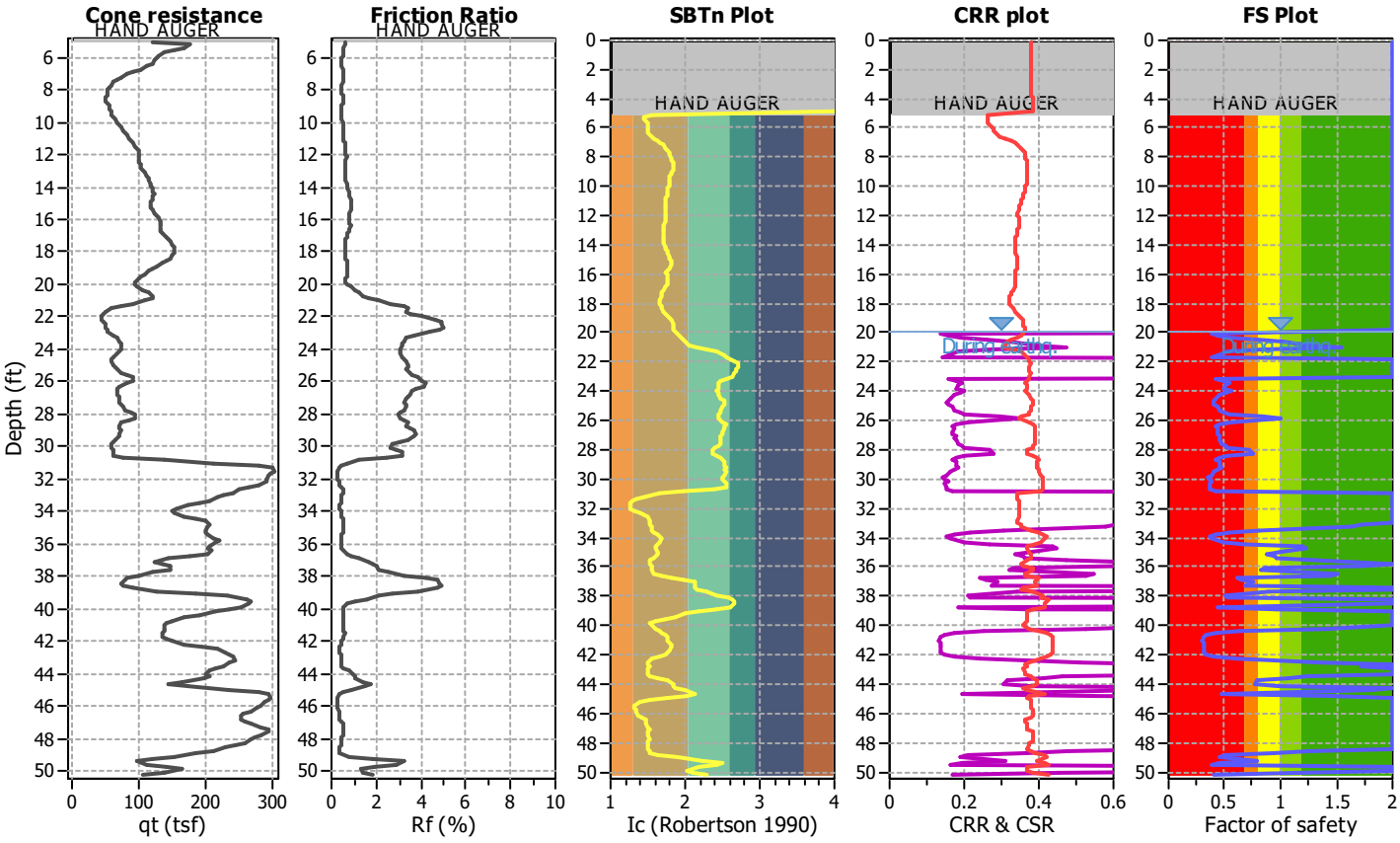
LIQUEFACTION ANALYSIS REPORT

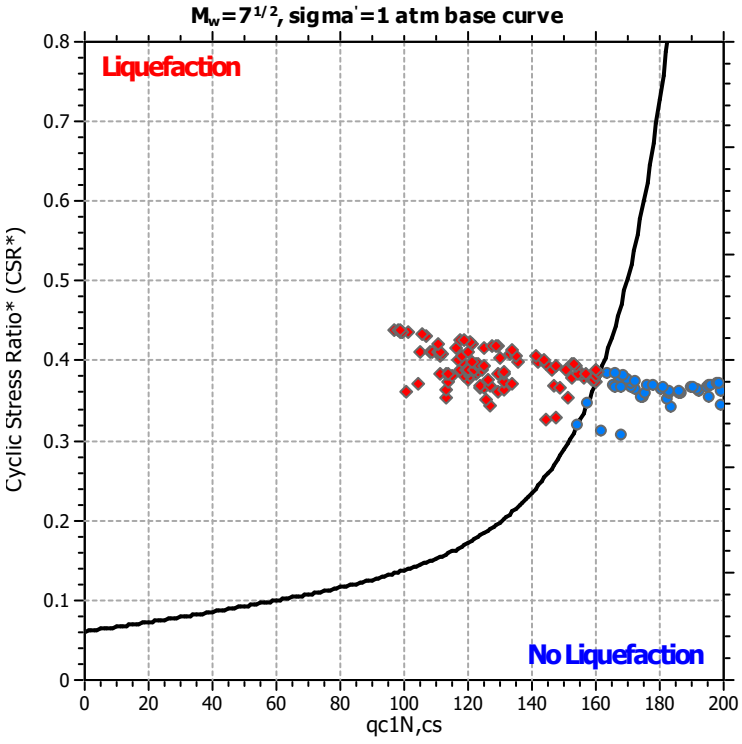
Project title : 2600 Wilbur Avenue (SFB Project 880-1) **Location : Antioch**

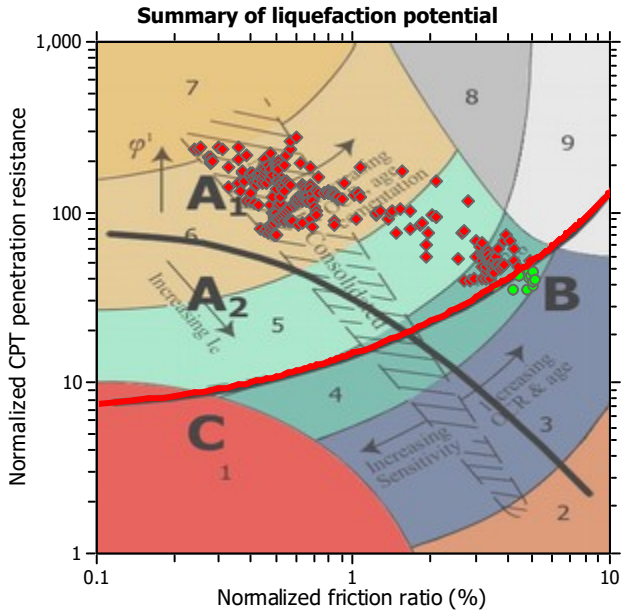
CPT file : CPT-1

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	20.00 ft	Use fill:	No	Clay like behavior applied:	Sand & Clay
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	20.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.66	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

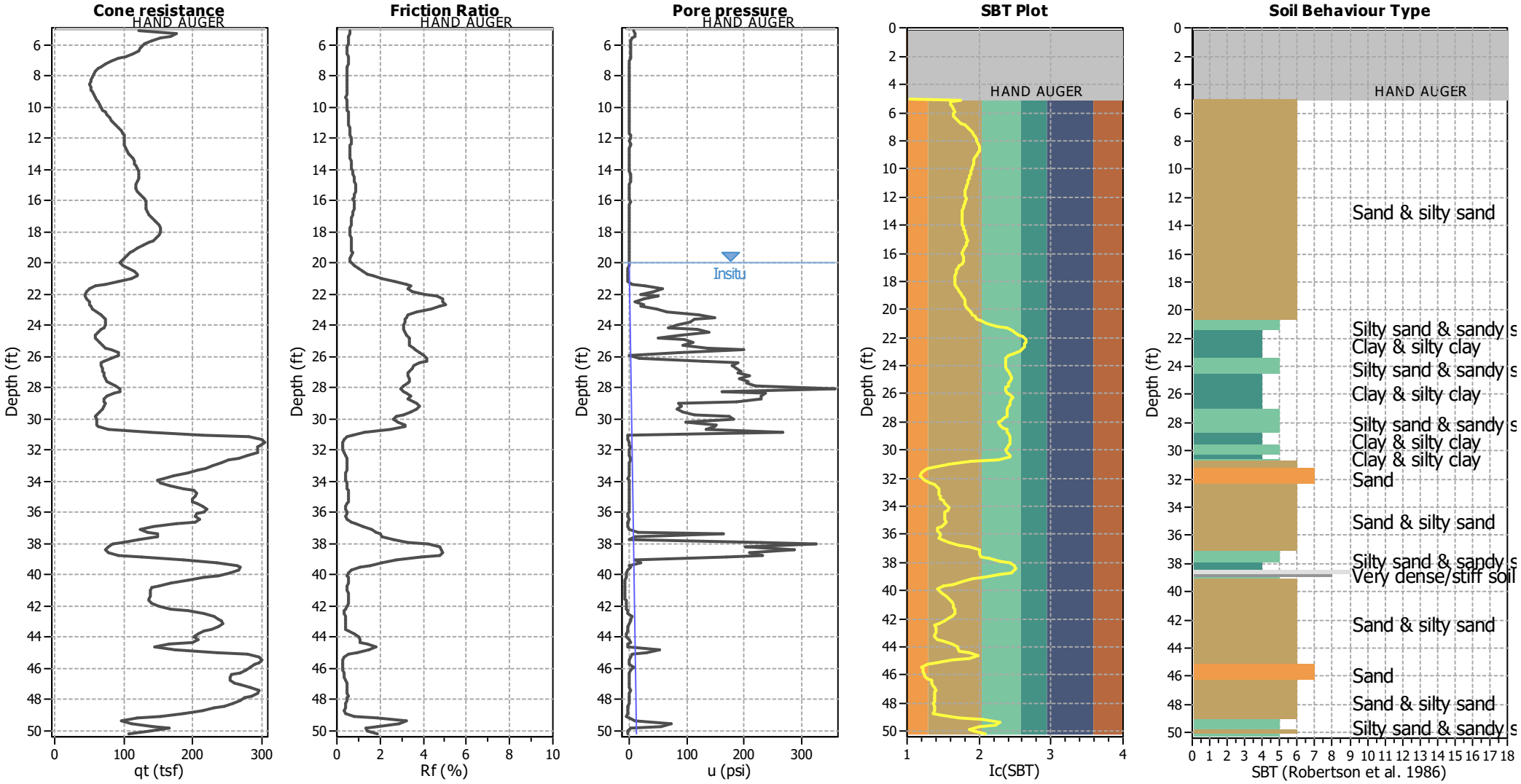






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



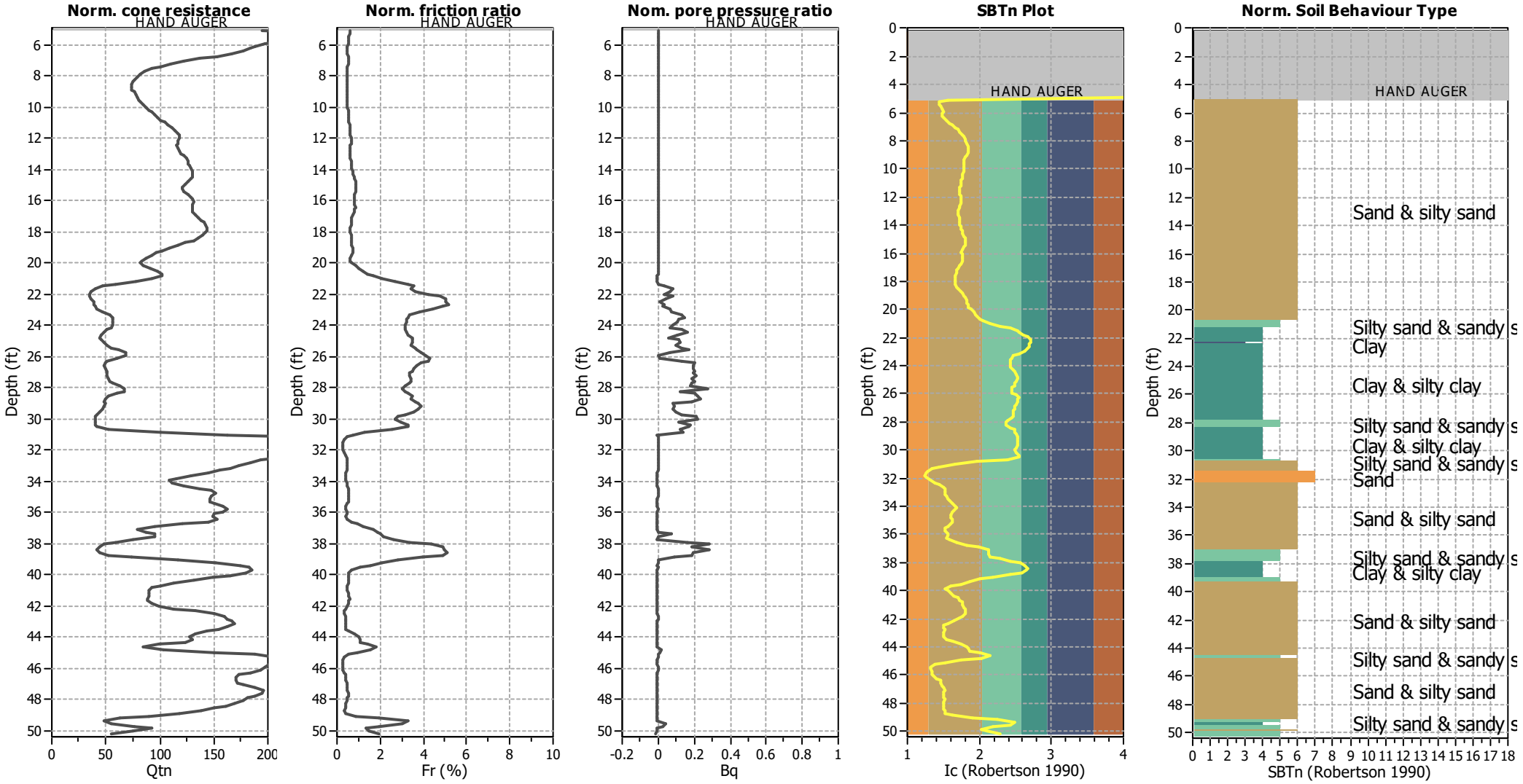
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



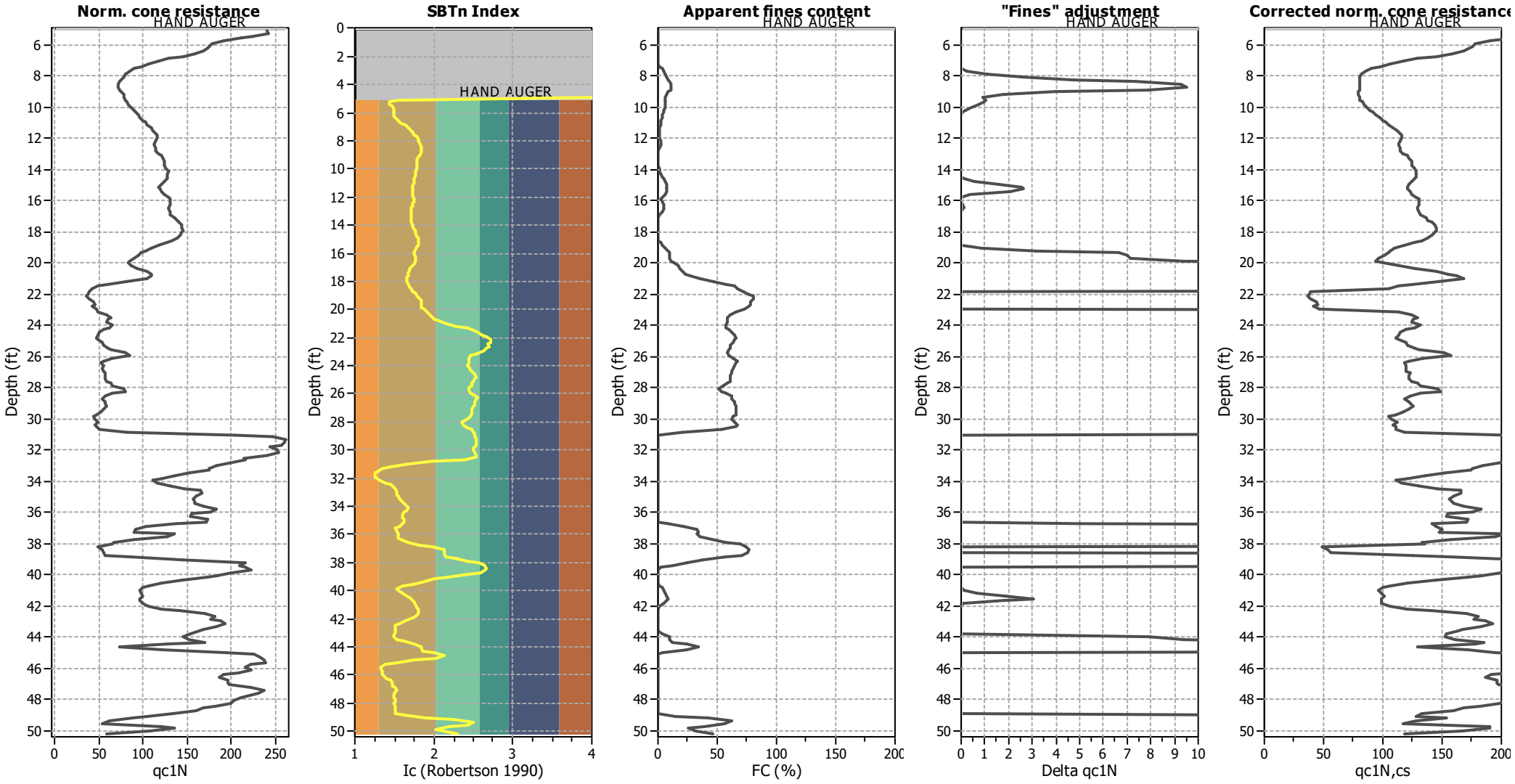
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

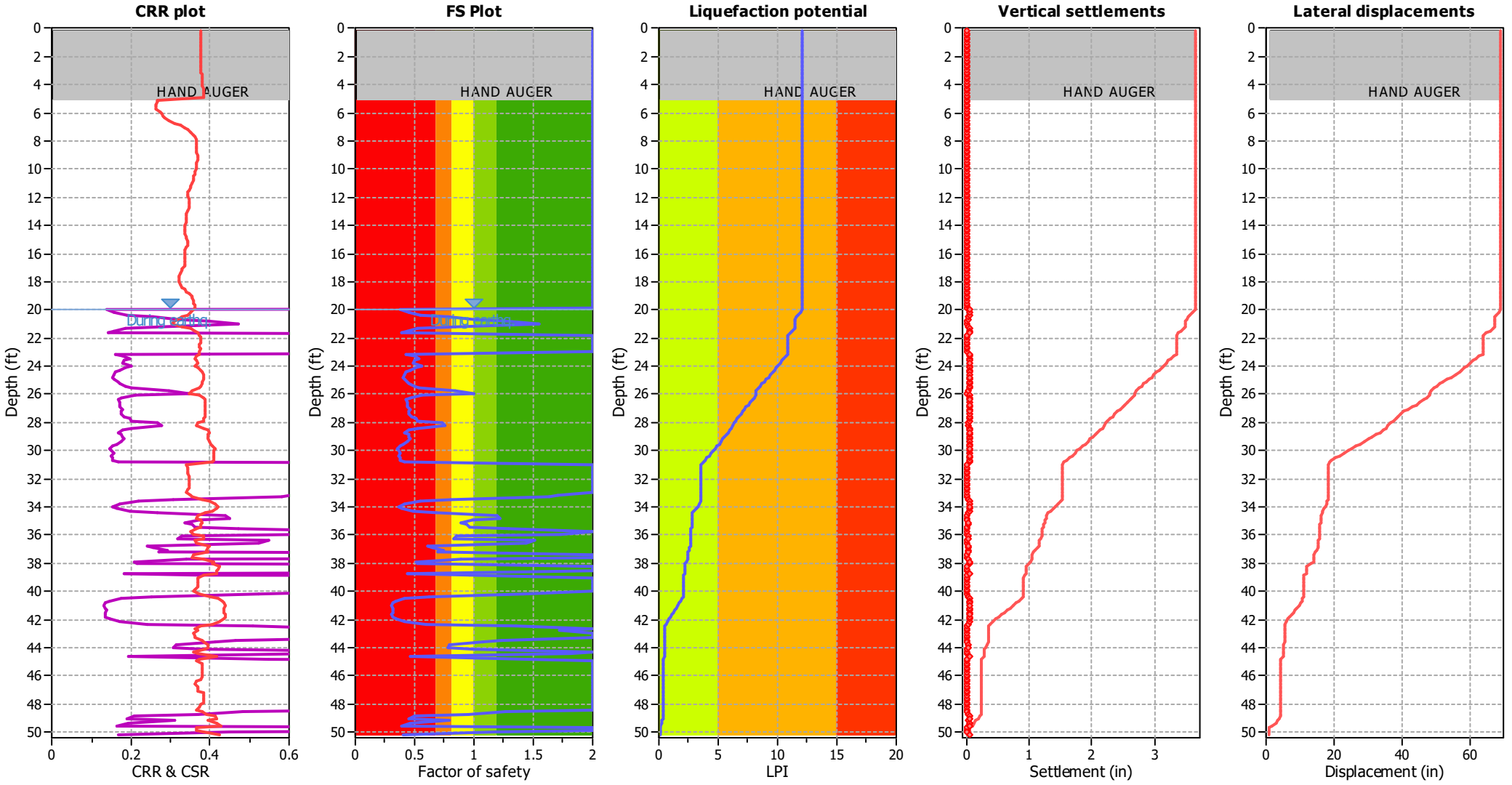
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

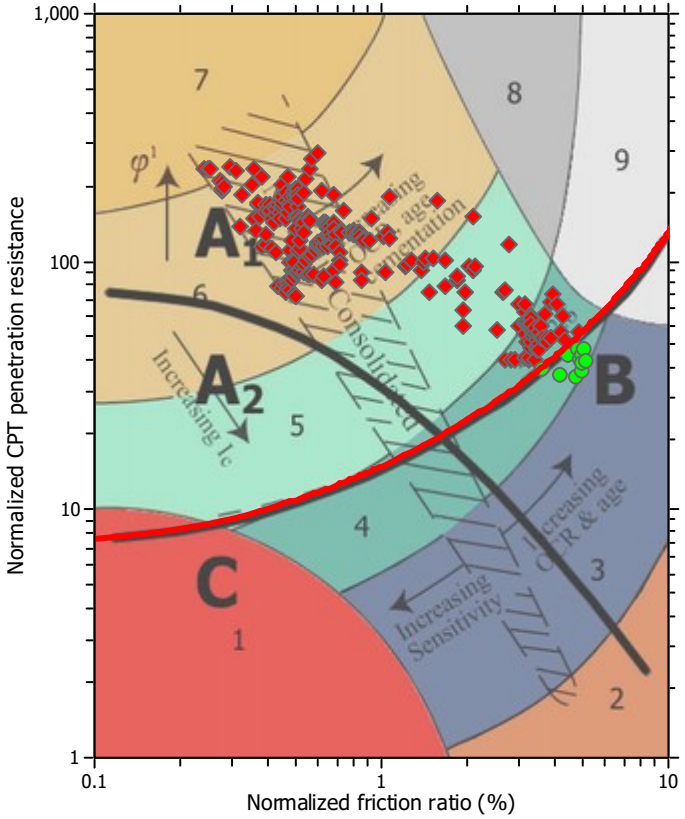
F.S. color scheme

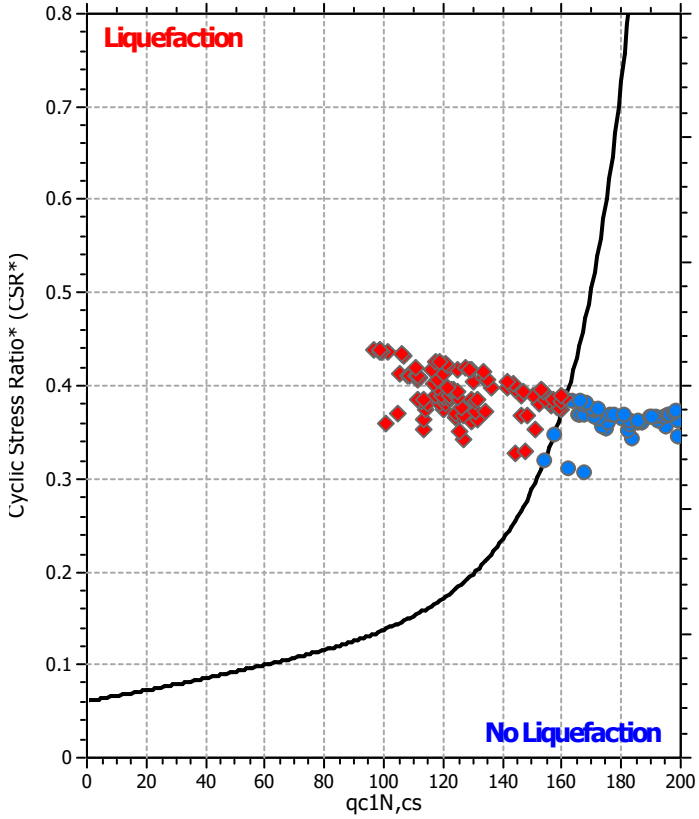
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

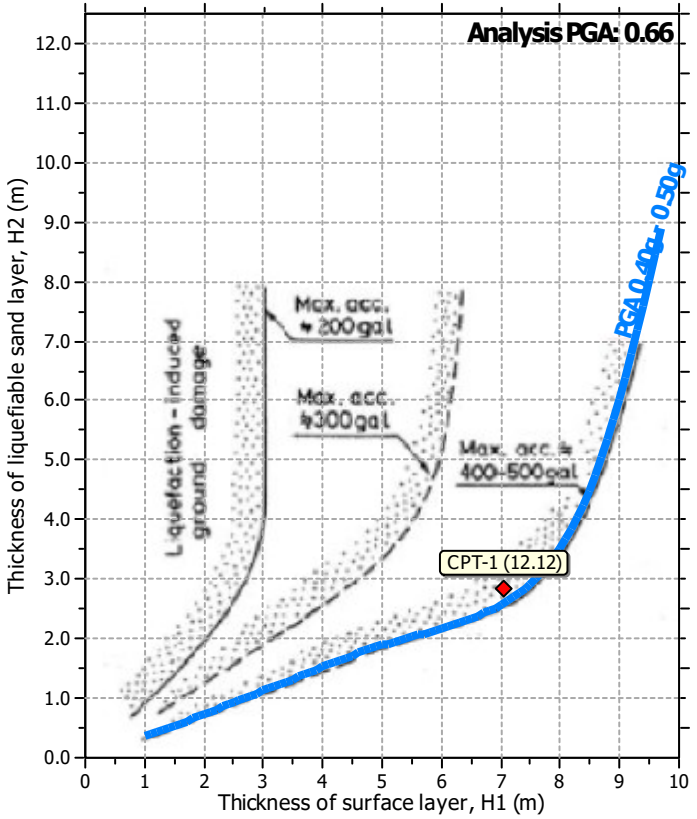
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots







Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
tel. 925-688-1001

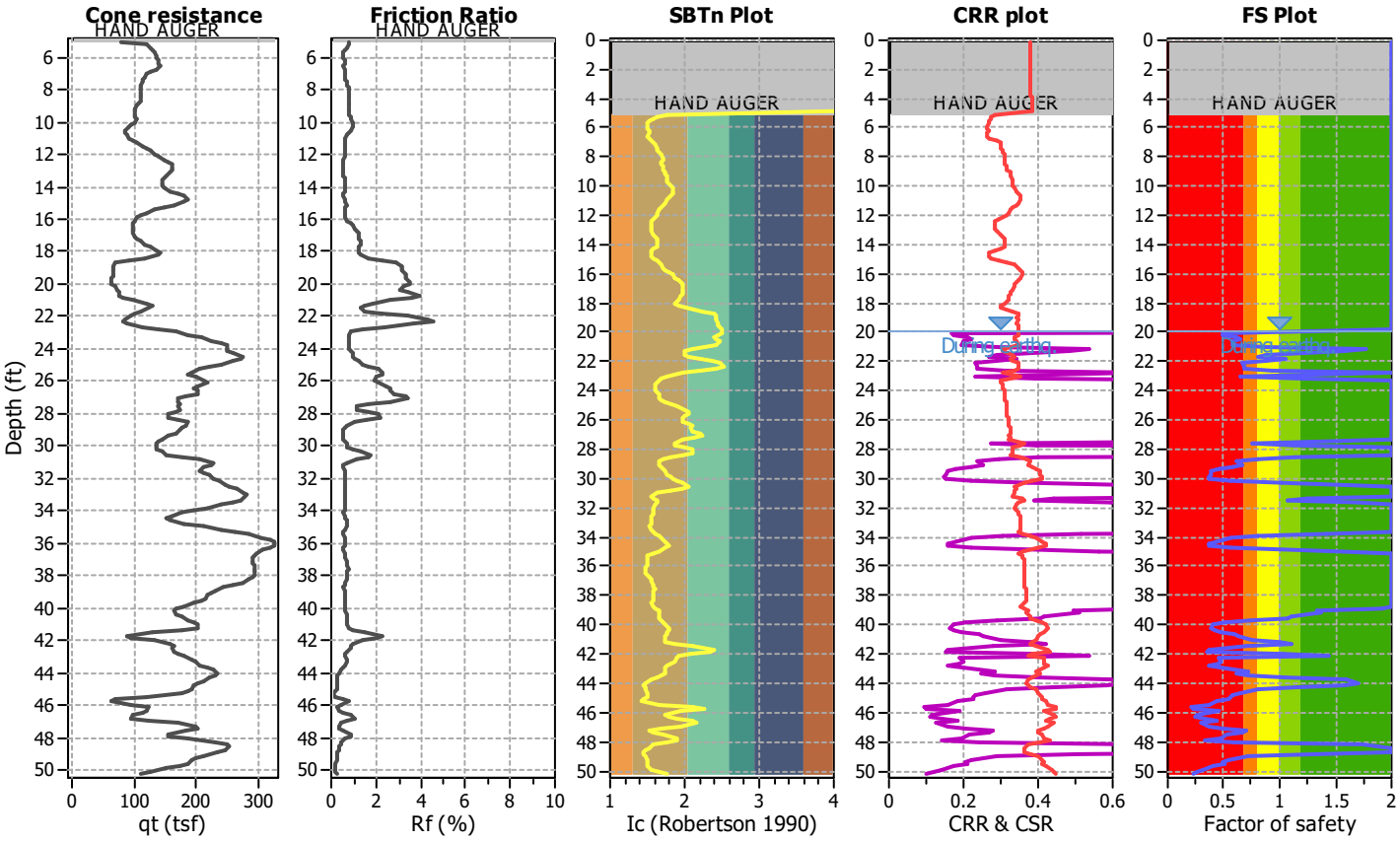
LIQUEFACTION ANALYSIS REPORT

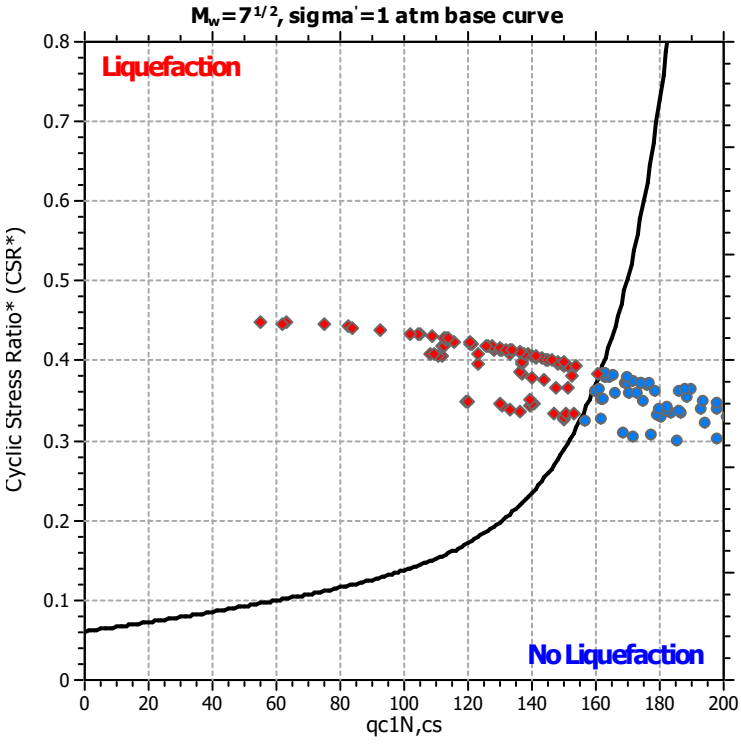
Project title : 2600 Wilbur Avenue (SFB Project 880-1) **Location : Antioch**

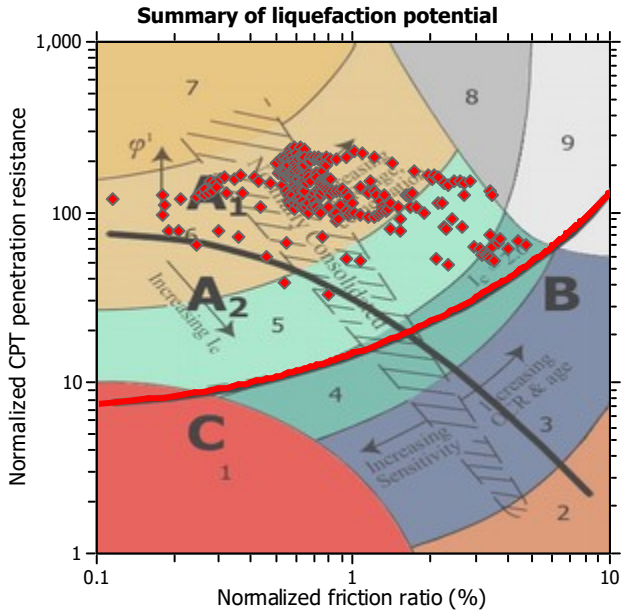
CPT file : CPT-2

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	20.00 ft	Use fill:	No	Clay like behavior applied:	Sand & Clay
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	20.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.66	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

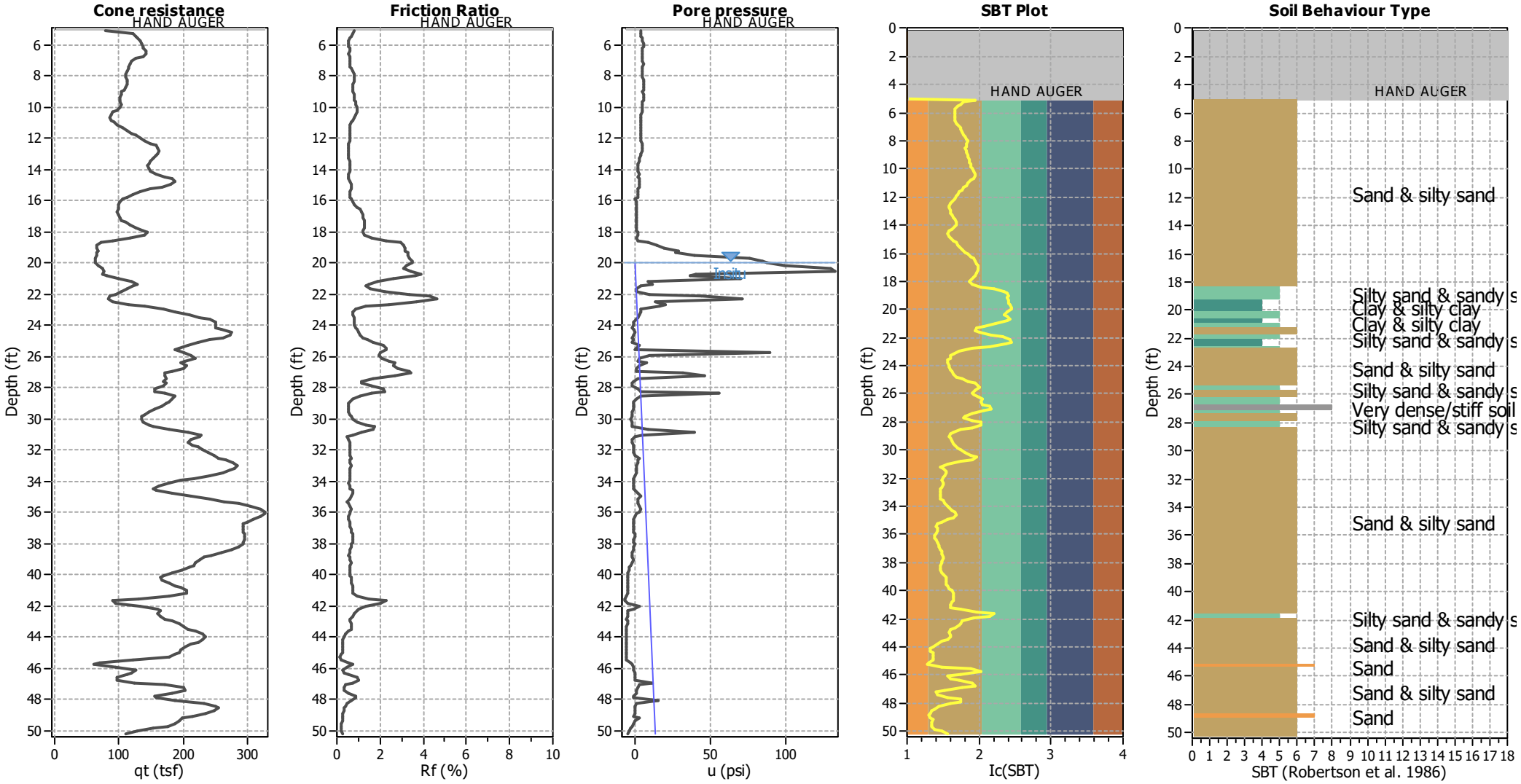






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



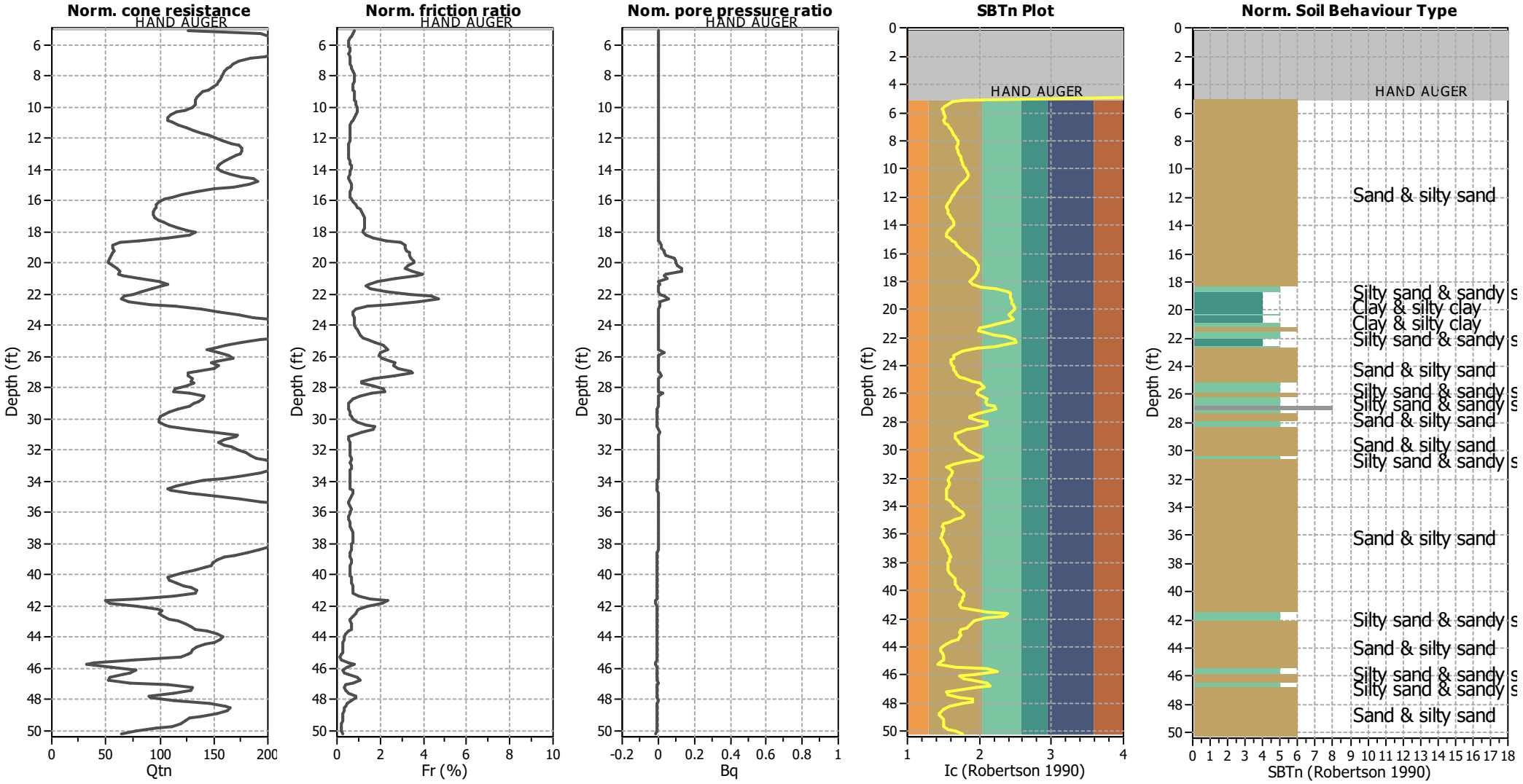
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



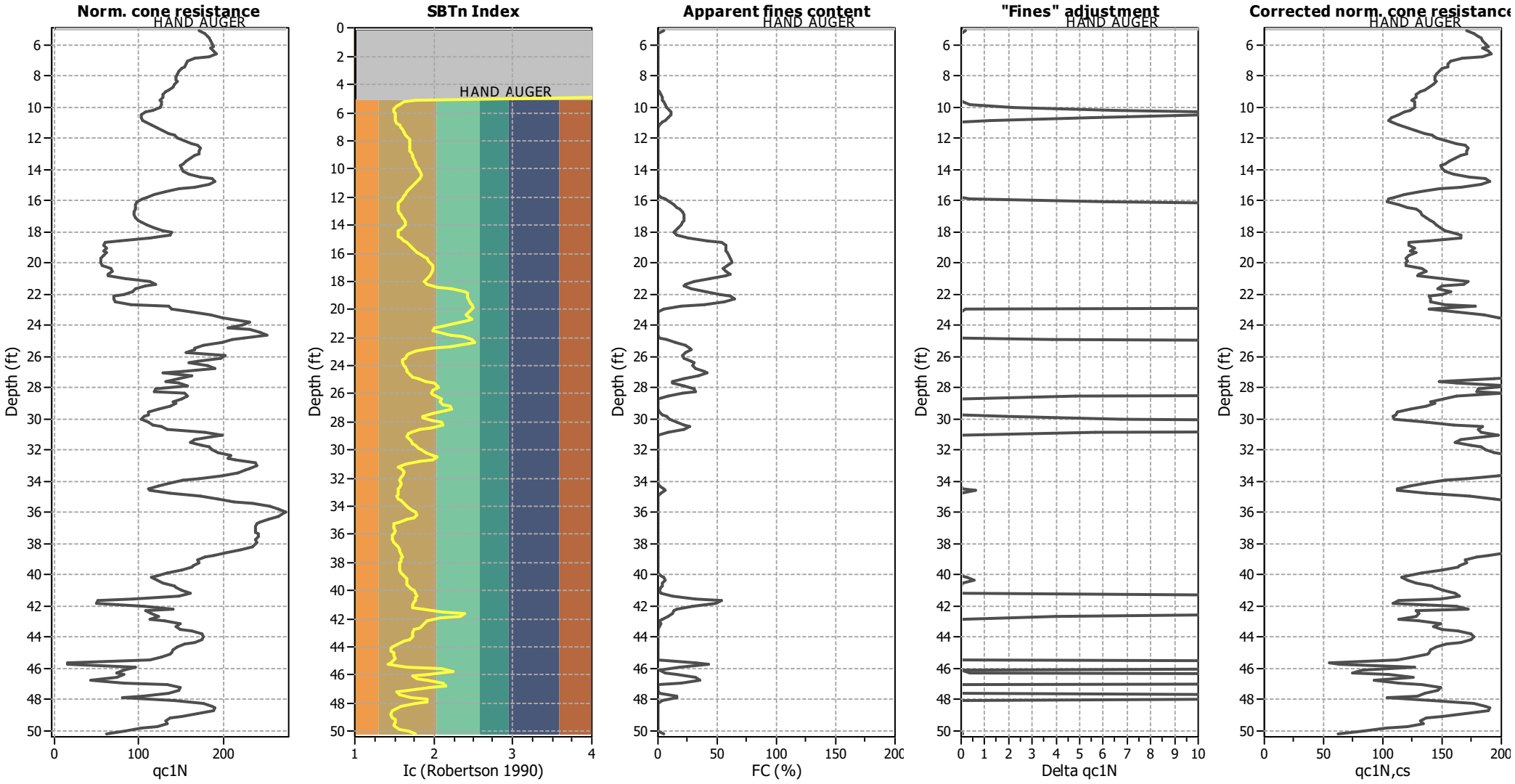
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

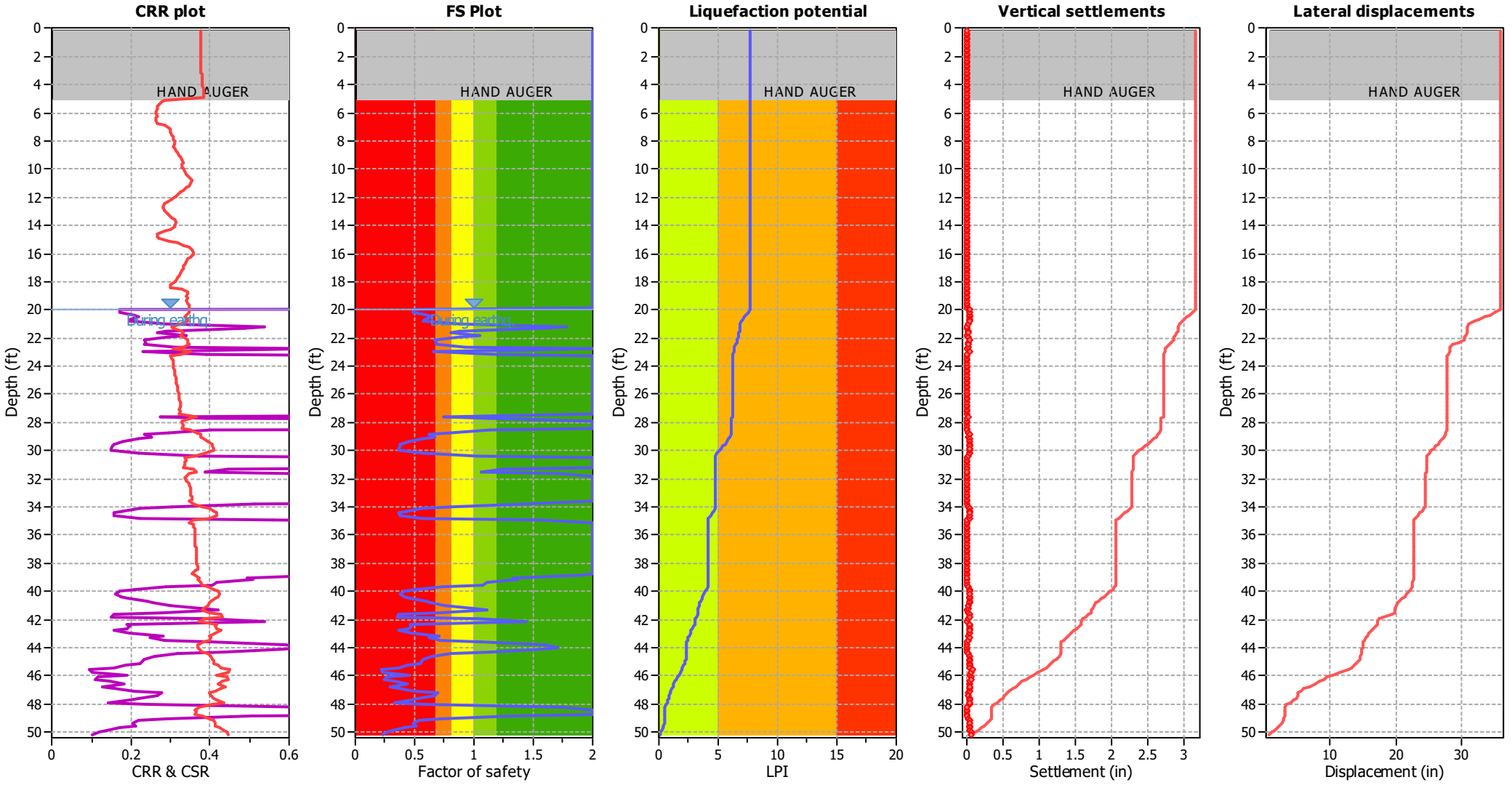
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

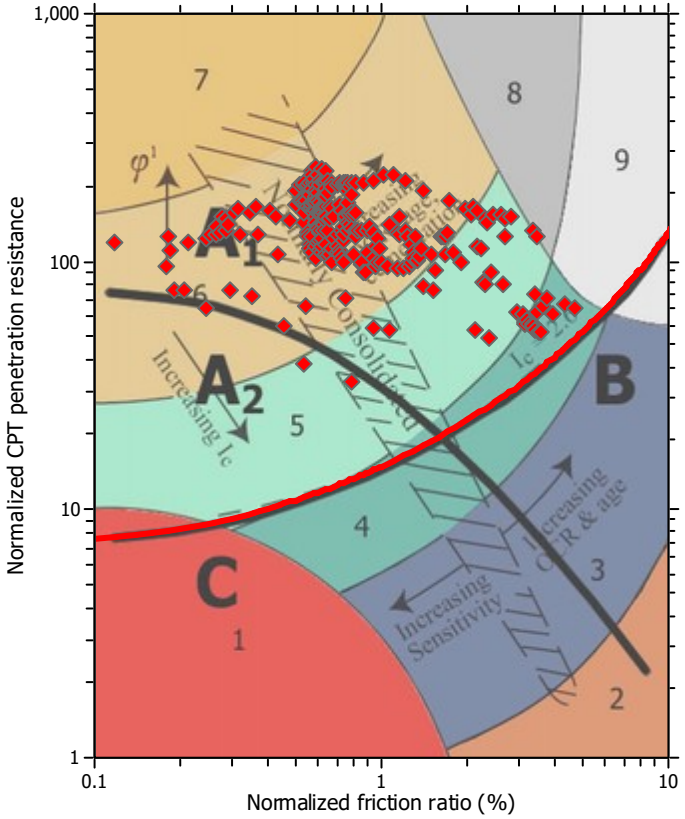
F.S. color scheme

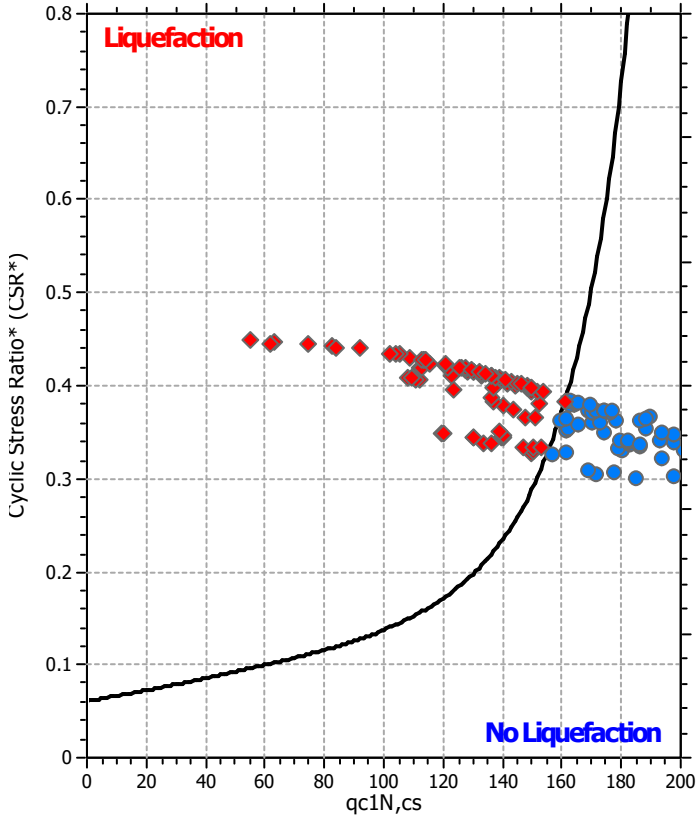
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

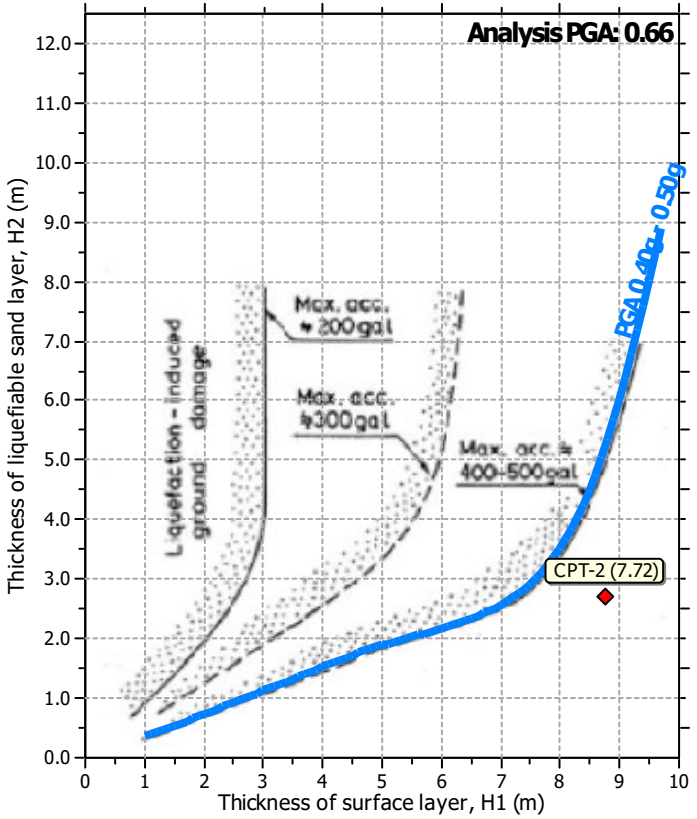
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots







Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

Stevens, Ferrone & Bailey Engineering Company, Inc.
1600 Willow Pass Court
Concord, CA 94520
tel. 925-688-1001

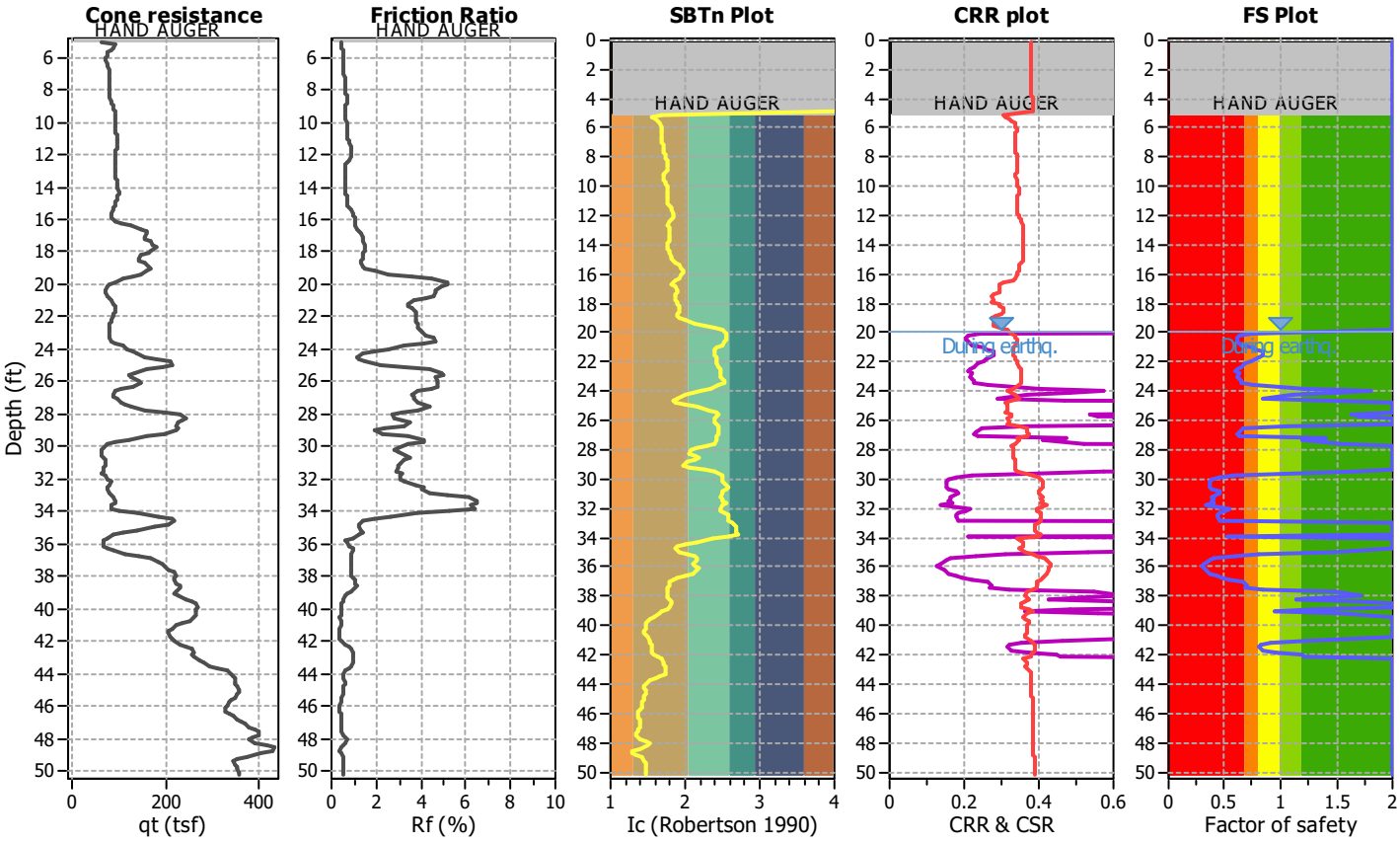
LIQUEFACTION ANALYSIS REPORT

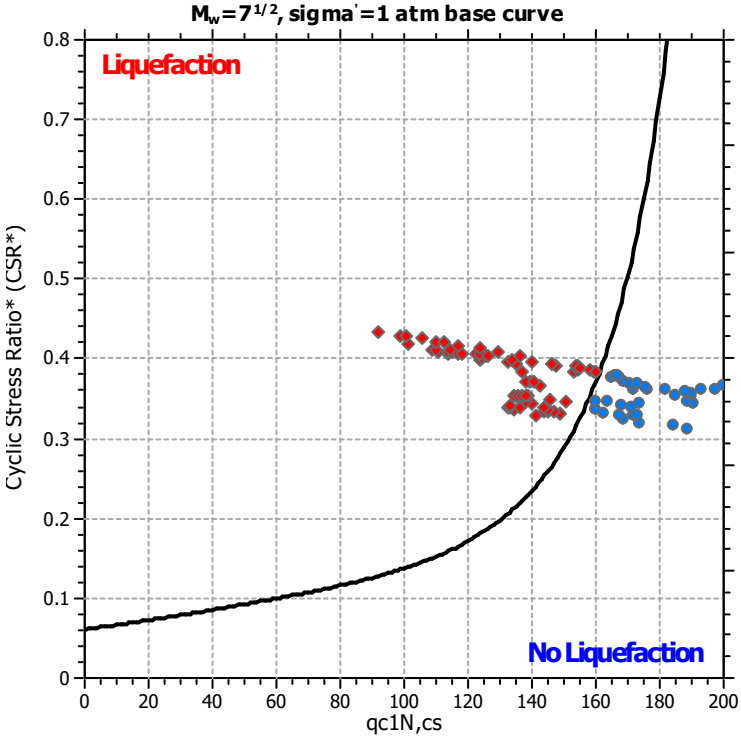
Project title : 2600 Wilbur Avenue (SFB Project 880-1) **Location : Antioch**

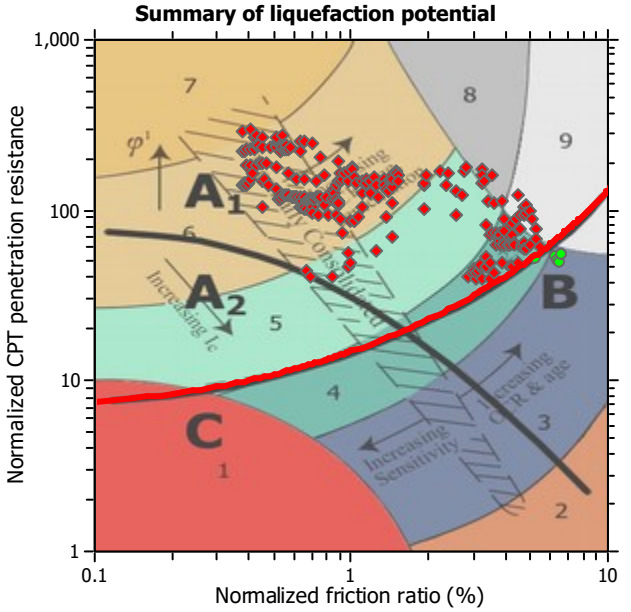
CPT file : CPT-3

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	20.00 ft	Use fill:	No	Clay like behavior applied:	Sand & Clay
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	20.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.66	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

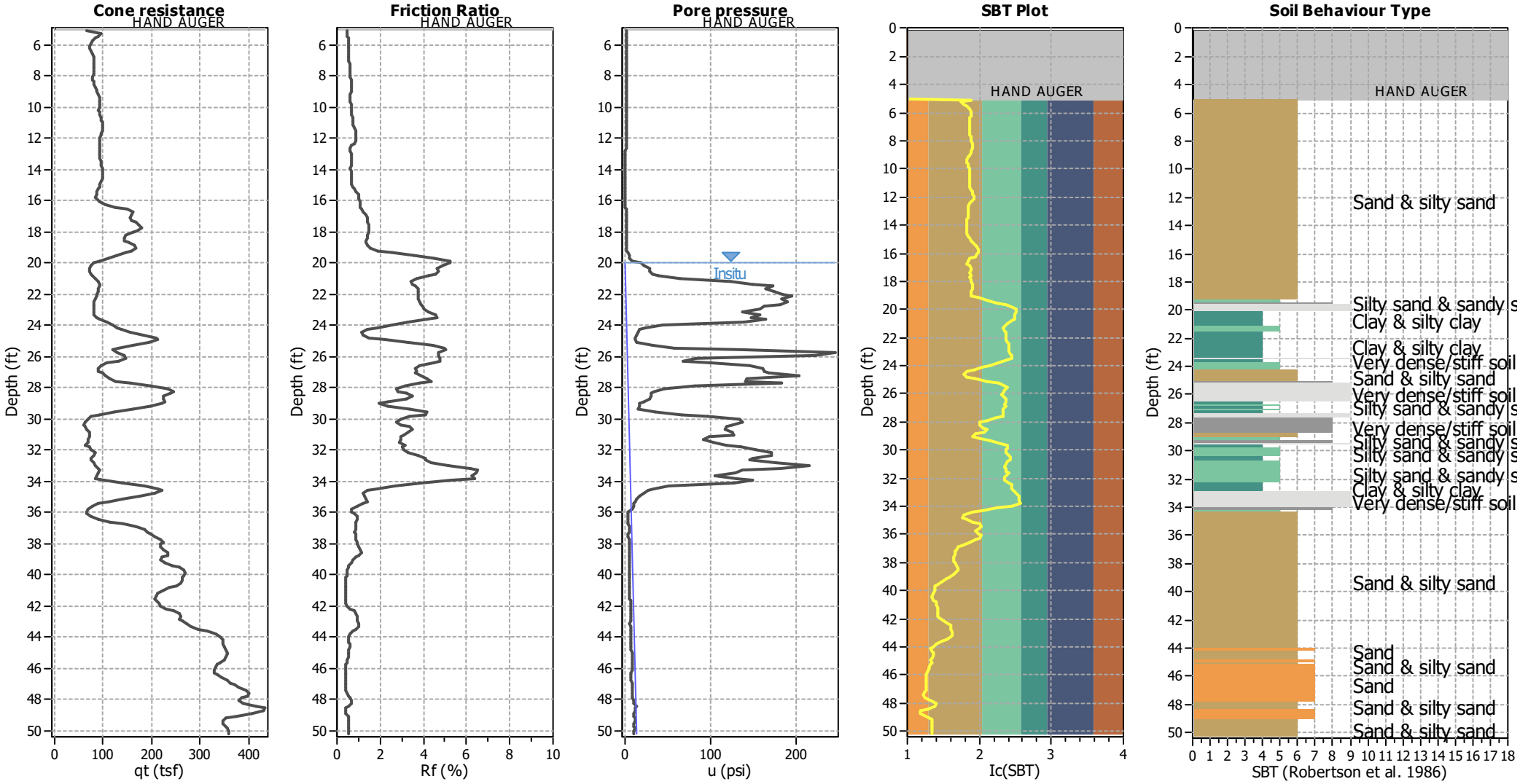






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



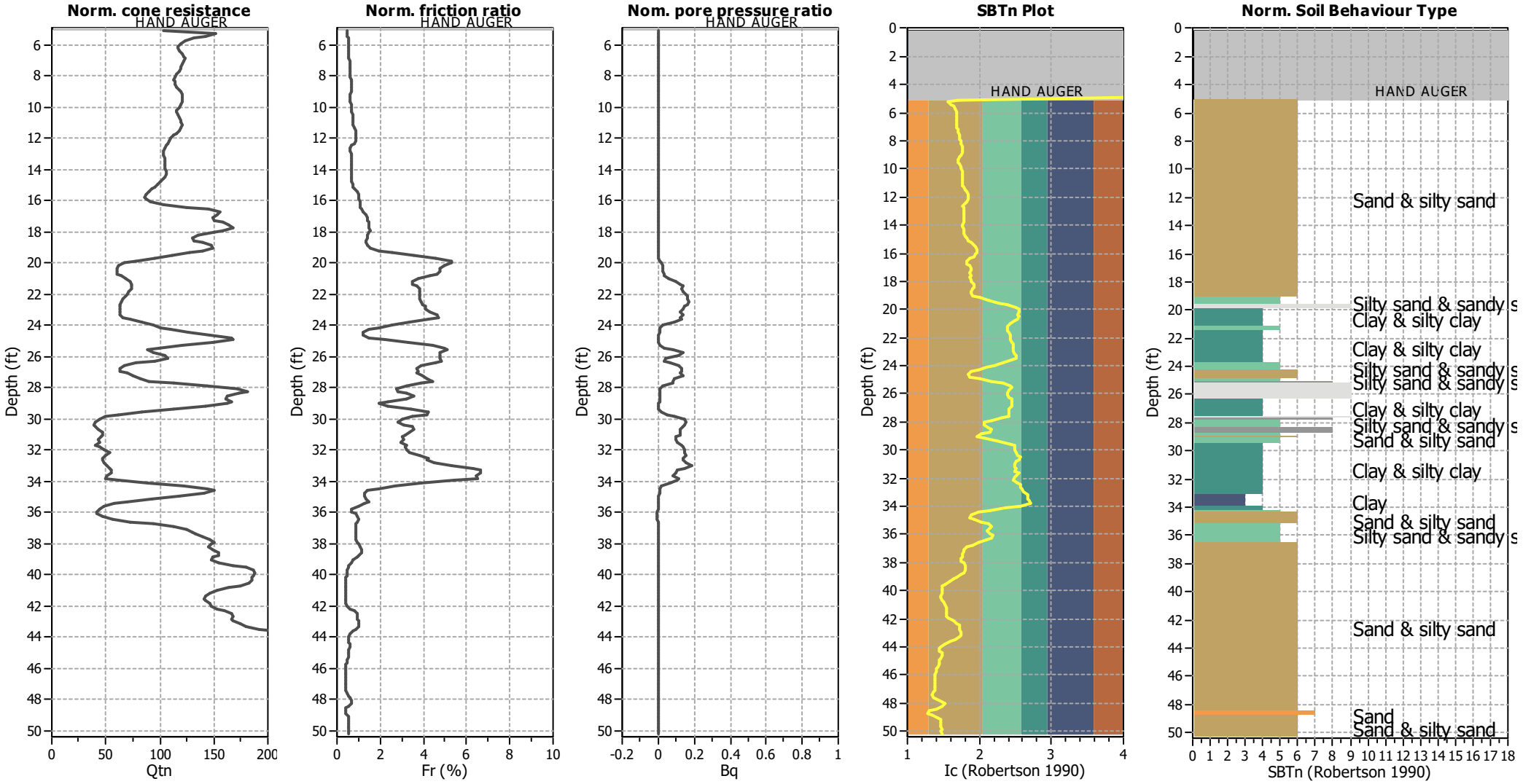
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



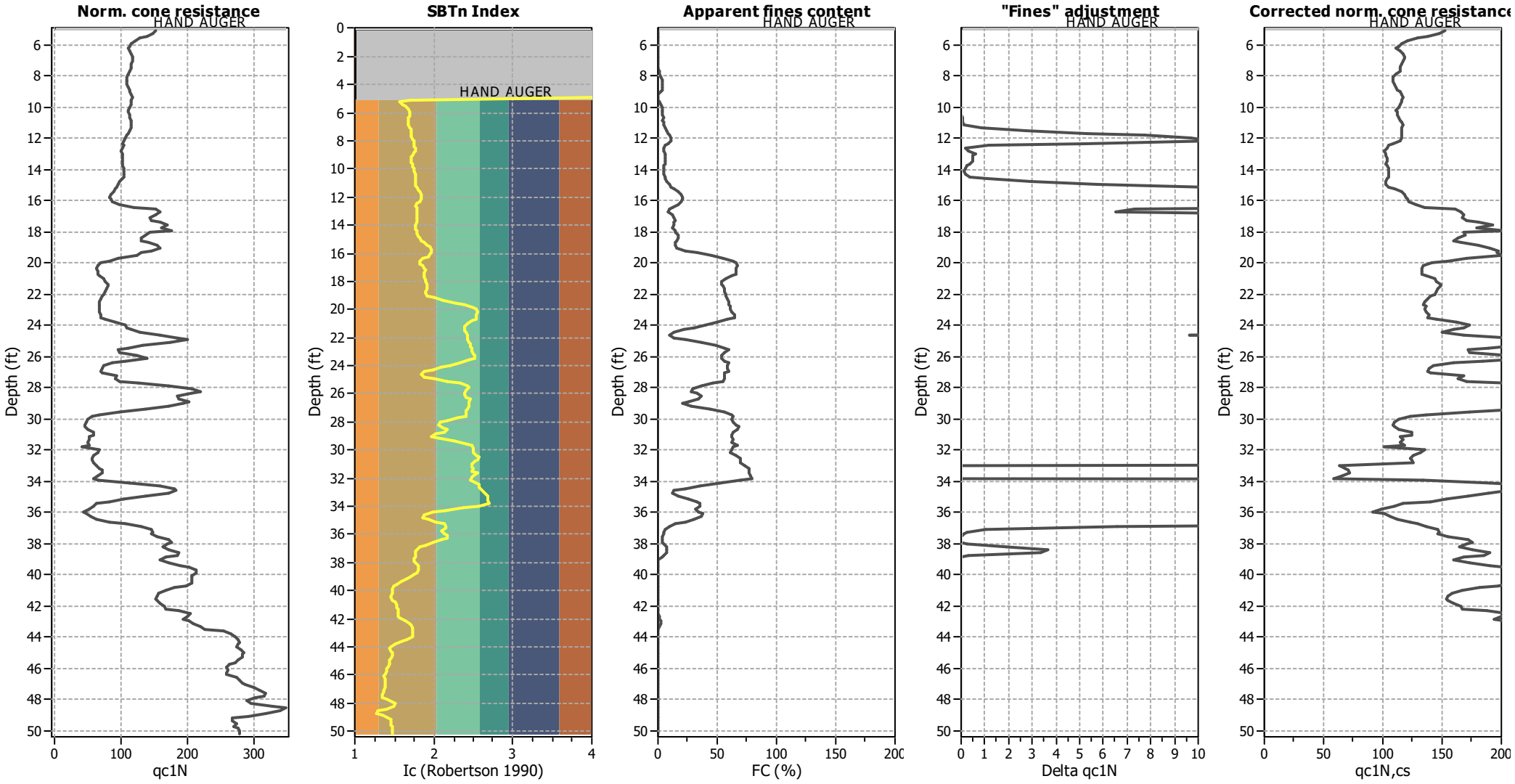
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

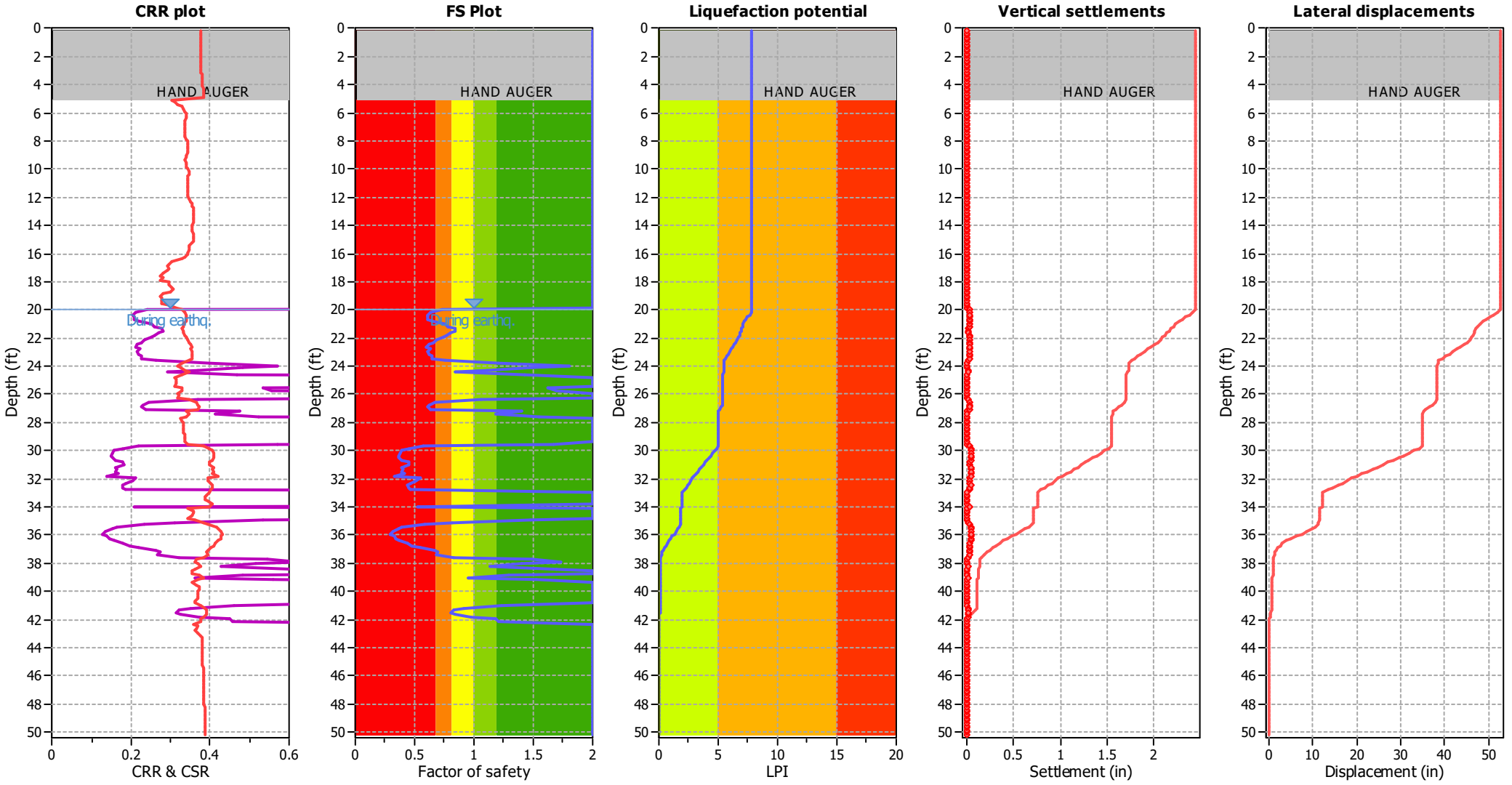
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

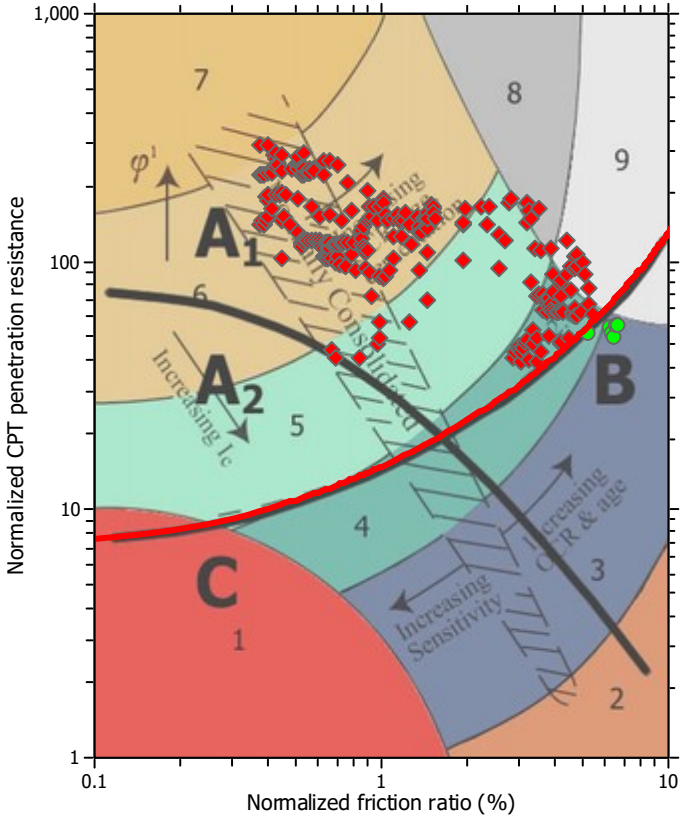
F.S. color scheme

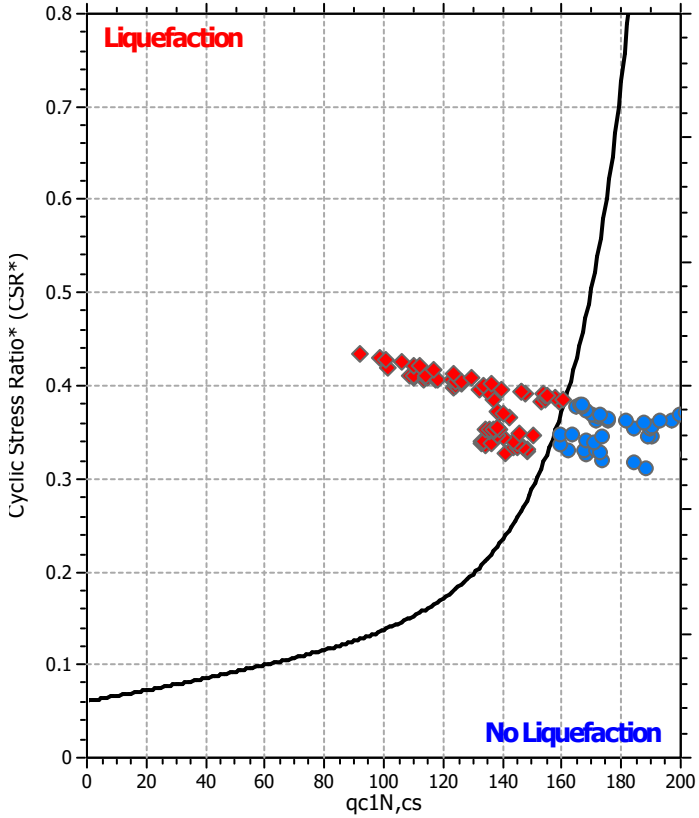
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

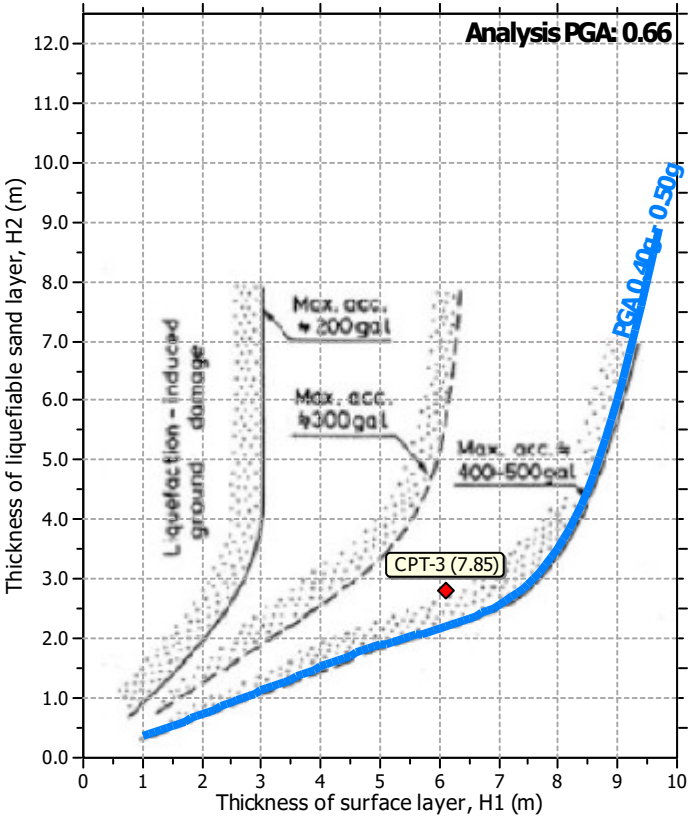
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots







Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

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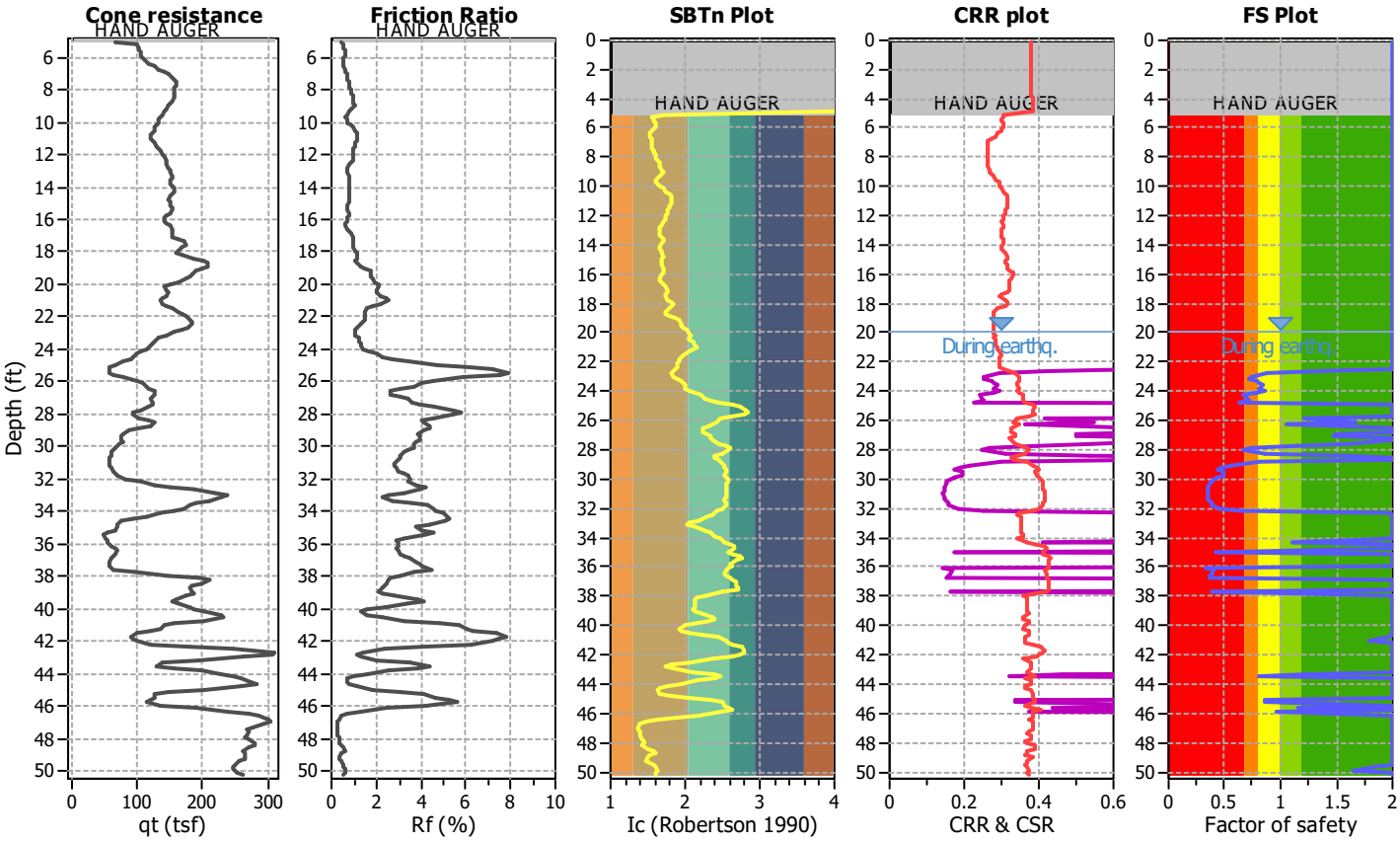
LIQUEFACTION ANALYSIS REPORT

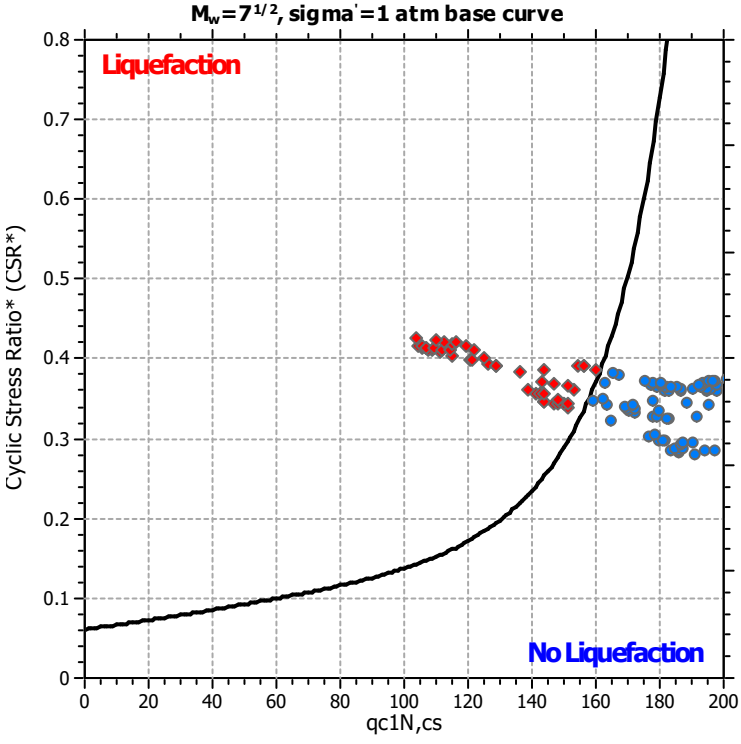
Project title : 2600 Wilbur Avenue (SFB Project 880-1) **Location : Antioch**

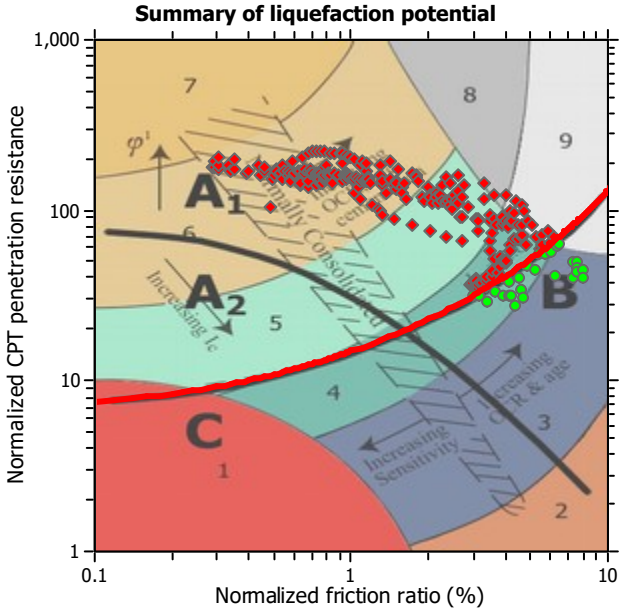
CPT file : CPT-4

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	20.00 ft	Use fill:	No	Clay like behavior applied:	Sand & Clay
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	20.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.66	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

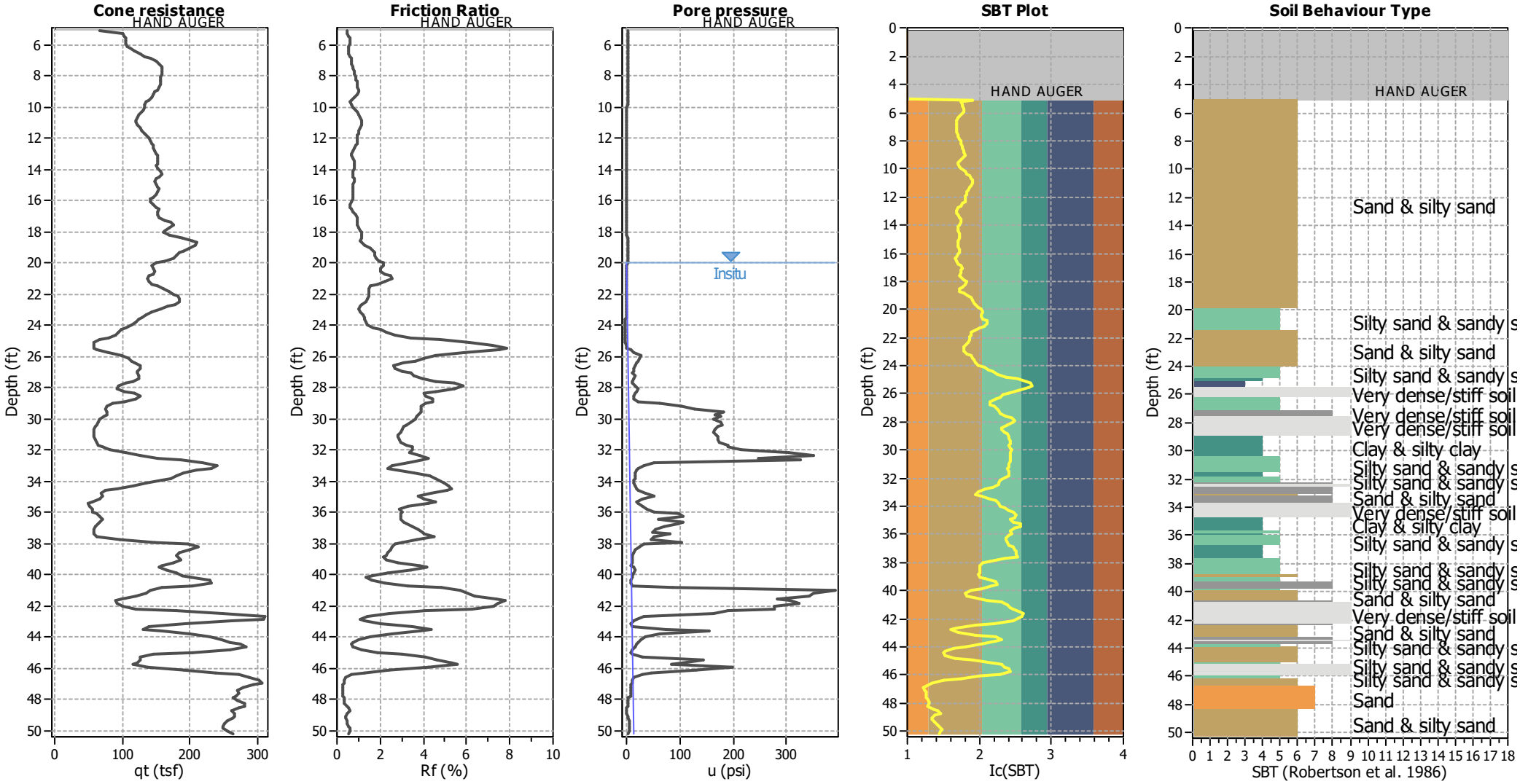






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



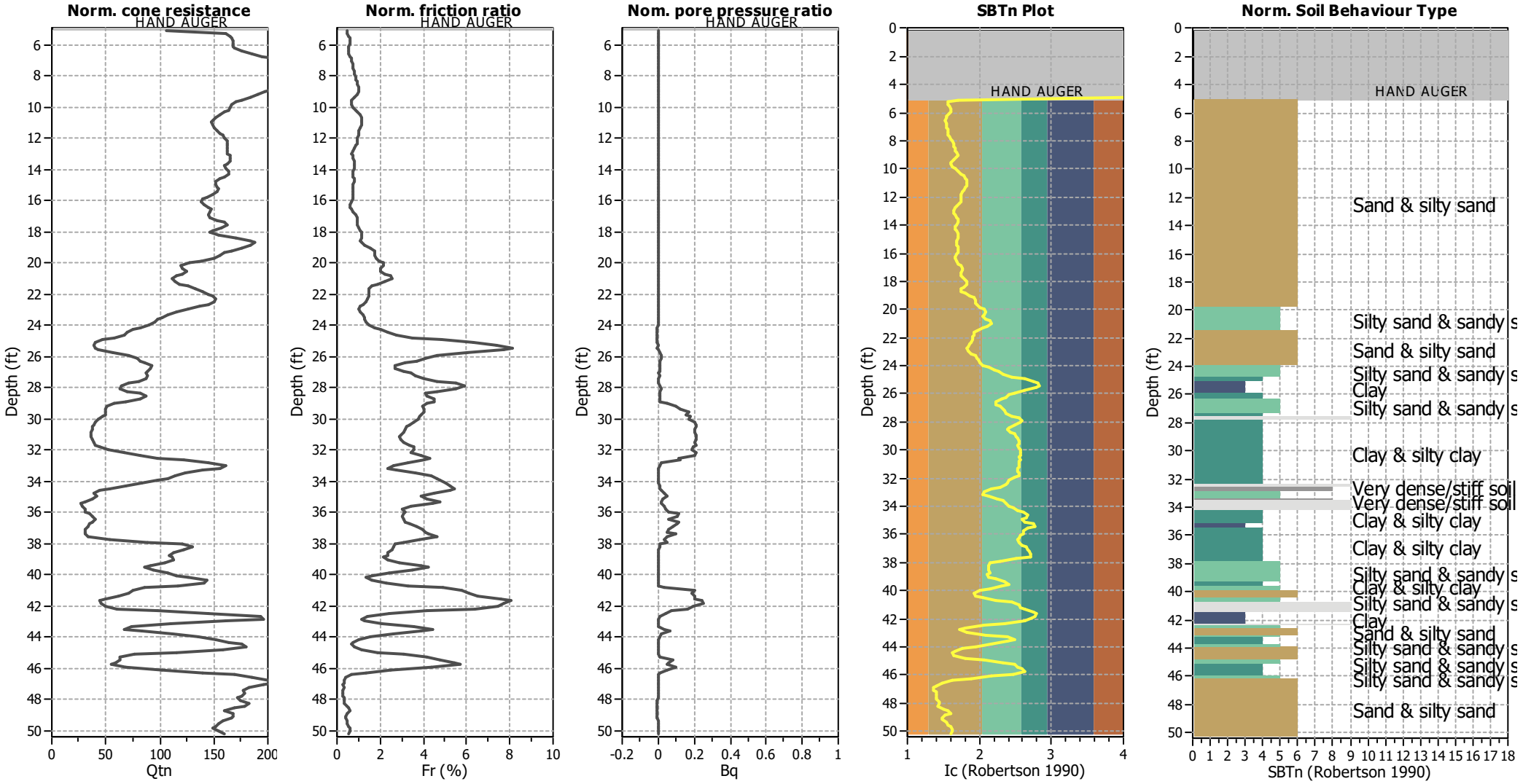
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



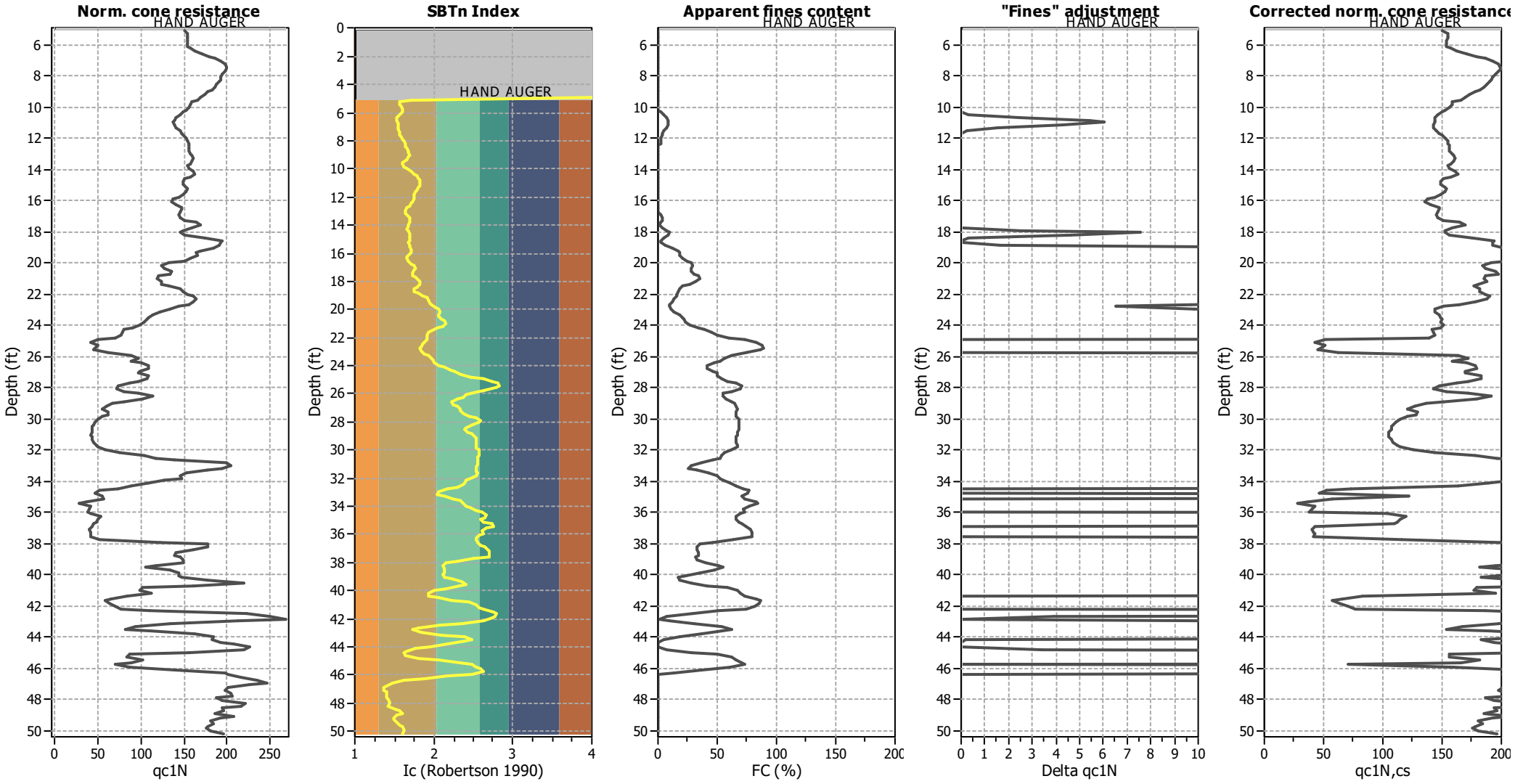
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

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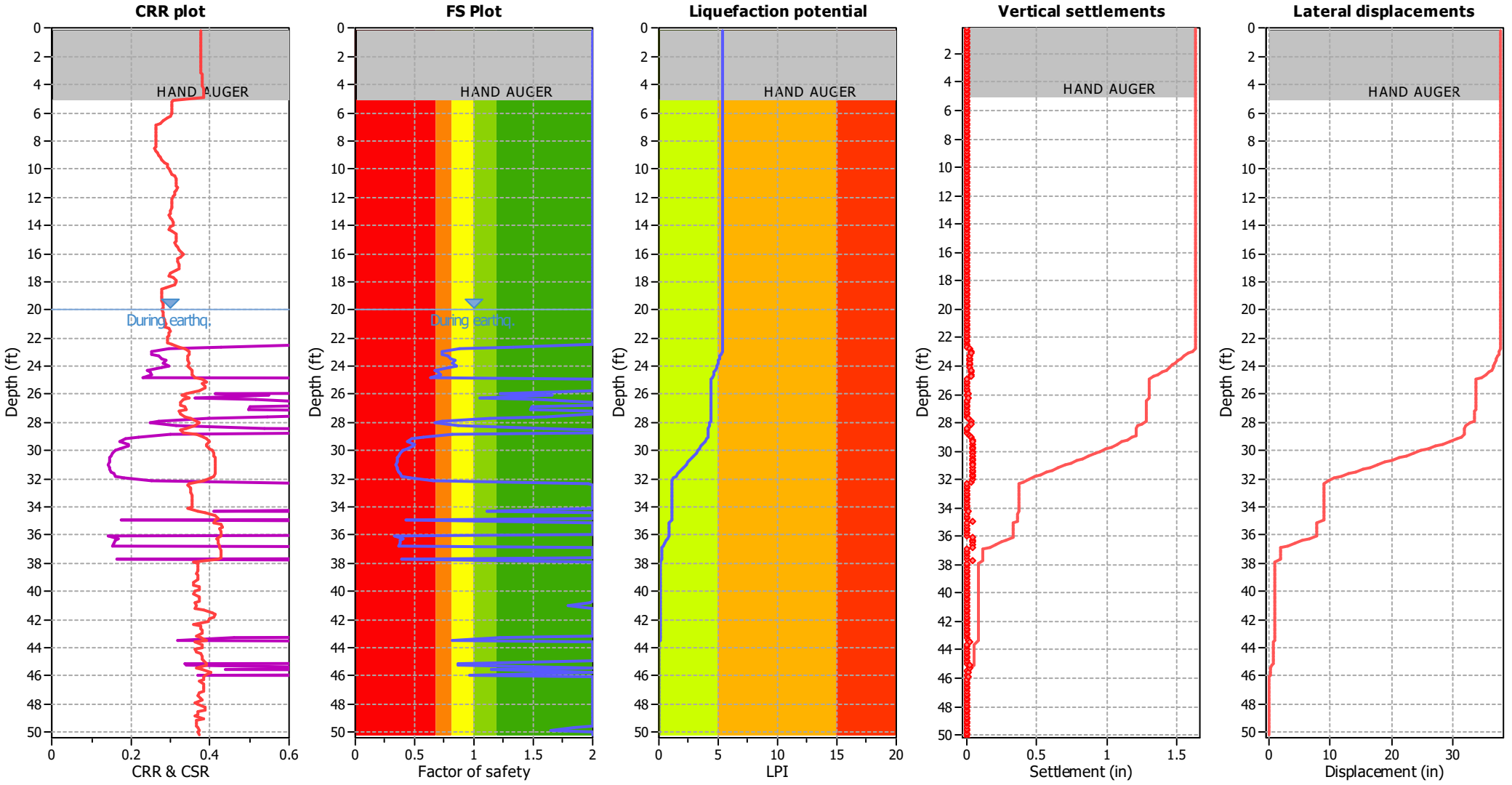
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

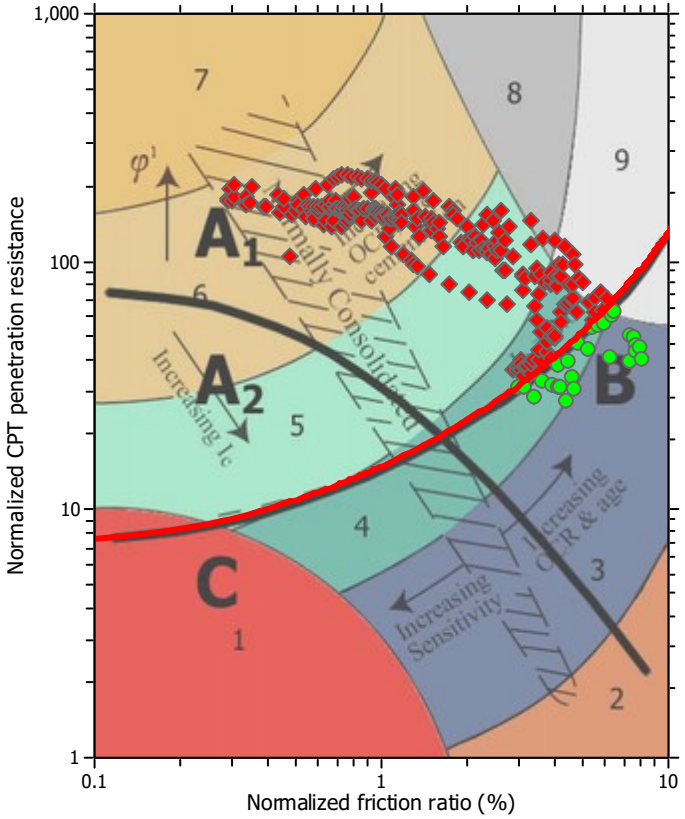
F.S. color scheme

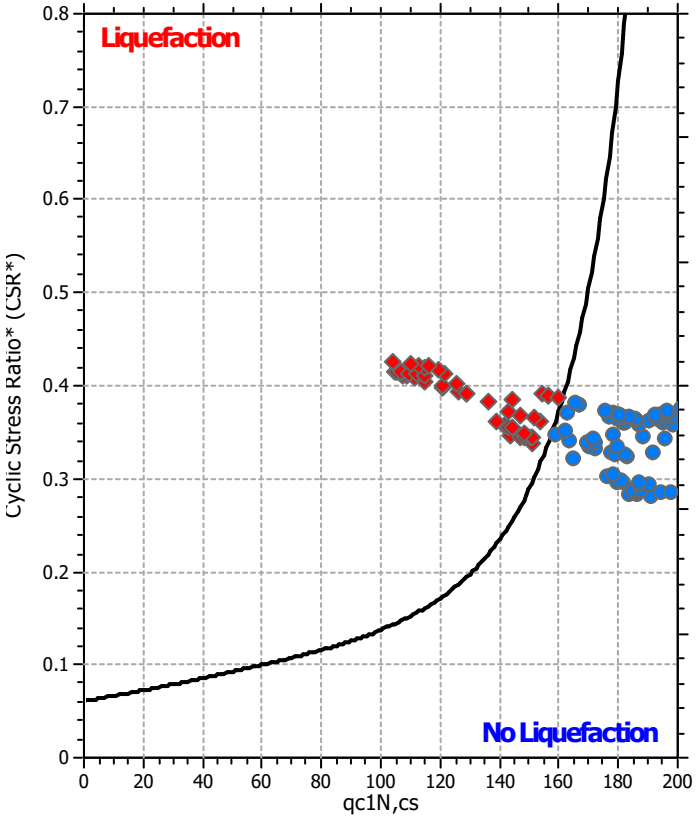
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

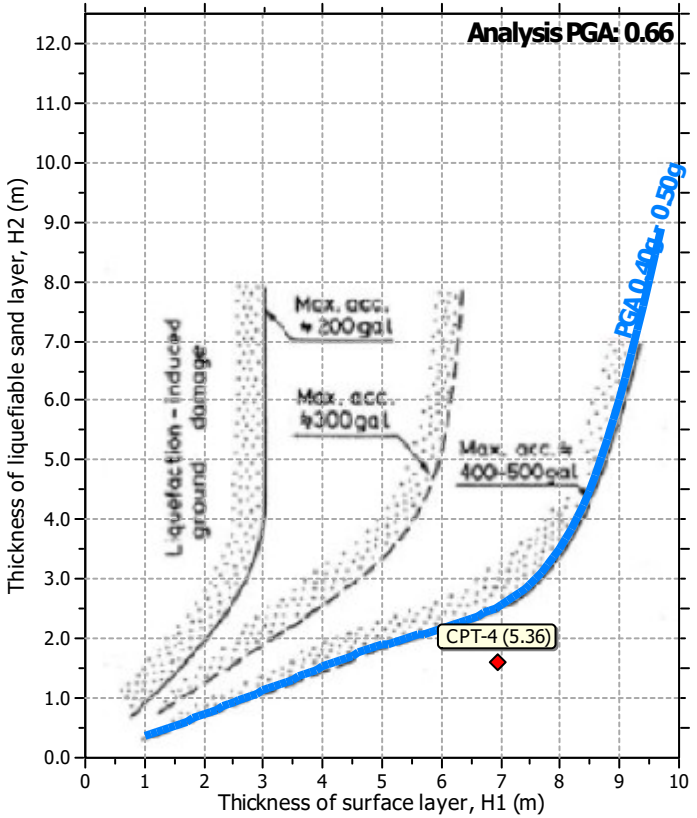
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots







Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	20.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sand & Clay
Peak ground acceleration:	0.66	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	20.00 ft	Fill height:	N/A	Limit depth:	N/A

APPENDIX E

Report Guidelines

Important Information about Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you* — should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final,* because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's recommendations if that engineer does not perform construction observation.*

A Geotechnical Engineering Report Is Subject to Misinterpretation

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing construction observation.

Do Not Redraw the Engineer's Logs

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

Give Contractors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure contractors have sufficient time* to perform additional study. Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

Read Responsibility Provisions Closely

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce the risk of such outcomes, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations" many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The equipment, techniques, and personnel used to perform a *geoenvironmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

Obtain Professional Assistance To Deal with Mold

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the *express purpose* of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, a number of mold prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; ***none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold prevention. Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.***

Rely on Your ASFE-Member Geotechnical Engineer for Additional Assistance

Membership in ASFE/The Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with your ASFE-member geotechnical engineer for more information.

ASFE THE GEOPROFESSIONAL BUSINESS ASSOCIATION

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Appendix E PHASE I ENVIRONMENTAL SITE ASSESSMENT

AEI Consultants

January 3, 2020

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Property Information:
2580, 2590, 2600 Wilbur Avenue
Antioch, Contra Costa County, California 94509
Assessor Parcel Number: 051-032-009-6

Project Information:
AEI Project No. 416523
Client Reference No. 19-4062-1
Client Reference Name: Garaventa Enterprises

Prepared For:
MUFG Union Bank, N.A.
500 South Main Street, 7th Floor
Orange, California 92868

Prepared By:
AEI Consultants
2500 Camino Diablo, Suite 100
Walnut Creek, California 94597-3940

Environmental Due Diligence

Building Assessments

Site Investigation & Remediation

Energy Performance & Benchmarking

Industrial Hygiene

Construction Risk Management

Zoning Analysis Reports & ALTA Surveys

AEI Consultants

January 3, 2020

Ms. Cyndy Wagner
MUFG Union Bank, N.A.
500 South Main Street, 7th Floor
Orange, California 92868

Subject: **Phase I Environmental Site Assessment**
2580, 2590, 2600 Wilbur Avenue
Antioch, California 94509
AEI Project No. 416523
Client Reference No. 19-4062-1
Client Reference Name: Garaventa Enterprises

Dear Ms. Wagner:

AEI Consultants is pleased to provide the *Phase I Environmental Site Assessment* of the above referenced property. This assessment was authorized and performed in accordance with the scope of services engaged.

We appreciate the opportunity to provide services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (360) 931-9248 or hgates@aeiconsultants.com.

Sincerely,

D. Howe Gates
Regional Director
AEI Consultants

PROJECT SUMMARY

2580, 2590, 2600 Wilbur Avenue, Antioch, Contra Costa County, California 94509
AEI Project No. 416523

Report Section		REC	CREC	HREC	OEC	Recommended Action
1.0	Introduction					None
2.0	Site and Vicinity Description					None
3.0	Historical Review of Site and Vicinity			✔		None
4.0	Regulatory Agency Records Review			✔		None
5.0	Regulatory Database Records Review			✔		None
6.0	Interviews and User Provided Information					None
7.0	Site Reconnaissance				✔	None
8.1	Asbestos-Containing Building Materials					None
8.2	Lead-Based Paint					None
8.3	Radon					None
8.4	Mold					None
8.5	Drinking Water Sources and Lead in Drinking Water					None

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EXECUTIVE SUMMARY

AEI Consultants (AEI) was retained and authorized by MUFG Union Bank, N.A. to conduct a Phase I ESA in conformance with the Master Environmental Services Agreement between AEI and MUFG Union Bank, N.A. dated July 26, 2016, and the MUFG Union Bank, N.A. Real-estate Information Management Service (RIMS) on-line award dated December 11, 2019 and the scope and limitations of ASTM Standard Practice E1527-13, the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), and the *2019 MUFG Union Bank, N.A. Phase I Environmental Site Assessment Scope of Work* for the property located at 2580, 2590, 2600 Wilbur Avenue, Antioch, Contra Costa County, California. Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

Pertinent subject property information is noted below:

PROPERTY INFORMATION	
Site Address(es)	2580, 2590, 2600 Wilbur Avenue, Antioch, Contra Costa County, California 94509
Property ID (APN or Block/Lot)	051-032-009-6
Location	South of Wilbur Avenue
Property Type	Industrial/Manufacturing
SITE AND BUILDING INFORMATION	
Approximate Site Acreage/Source	10.27/Assessor
Number of Buildings	One
Building Construction Date(s)	Between 2009 and 2012
Building Square Footage (SF)/Source	9,600/Representative for the Property Ownership
Number of Floors/Stories	One
Basement or Subgrade Area(s)	None identified
Number of Units	9
Additional Improvements	Asphalt-paved parking areas, storage yards, storage containers, an abandoned railroad, chain link fenced areas, and associated landscaping
On-site Occupant(s)	Refer to table below
Current On-site Operations/Use	Truck and car parking, storage, and associated administrative activities
Current Use of Hazardous Substances	Yes; refer to Section 7.1
REGULATORY INFORMATION	
Regulatory Database Listing(s)	HAZNET (2), CONTRA COSTA CO. SITE LIST, ENVIROSTOR, VCP, FINDS, CERS HAZ WASTE, CERS

Subject Property Address/Unit	Tenant	Use
2580 Wilbur Avenue (yard space)	A&M Towing	Towing yard
2590 Wilbur Avenue #A (yard space)	C&J Favalora Trucking, Inc.	Truck parking
2600 Wilbur Avenue (yard space)	The Davey Tree Surgery Company	Truck parking

Subject Property Address/Unit	Tenant	Use
2600 Wilbur Avenue (yard space)	Genscape Inc.	Use of an infra-red camera device to detect heat signatures of neighboring power plants
2600 Wilbur Avenue (metal building)	Restoration Clean Up Company, Inc.	Storage
2600 Wilbur Avenue (yard space)	Roadsafe Traffic Systems, Inc.	Storage
2600 Wilbur Avenue (yard space)	Ronald V. Nick	Storage and parking of tour buses
2600 Wilbur Avenue (yard space)	Rutilo Bahena	Storage
2600 Wilbur Avenue (yard space)	James G. Schuneman, DBA: Schuneman Trucking	Truck parking and storage

A chronological summary of historical subject property information is as follows:

Date Range	Subject Property Description and Use (Historical Addresses)	Source(s)
1908-1939	Undeveloped land	Aerial photographs, topographic maps
1946	Fibreboard purchased the subject property from Santa Fe Land Improvement Company	Previous report
1949	Undeveloped land with railroad tracks running through the middle	Aerial photographs
1957-1959	Undeveloped land with railroad tracks running through the middle and a water well near the northwestern corner	Aerial photographs, topographic maps
1963-1972	Undeveloped land with railroad tracks running through the middle, and a water well and parking lot on the northwestern corner	Aerial photographs, topographic maps
1978-1979	Undeveloped land on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a new commercial building (credit union building) with a parking lot and water well on the northwestern corner	Aerial photographs, topographic maps, previous report
1984	A concrete pad/material storage for sludge composting activities on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a commercial building (credit union building) and water well with parking lot on the northwestern corner	Aerial photographs, previous report
1988	Gaylord purchased the subject property from Fibreboard	
1993	A concrete pad for former sludge composting activities on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a commercial building (credit union building) with parking lot on the northwestern corner	Aerial photographs, previous report
1998-2002	A concrete pad for former sludge composting activities on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a water well on the western portion. The credit union building and parking lot have been removed	Aerial photographs, previous report
2002	A concrete pad for former sludge composting activities on the eastern portion, railroad tracks running through the middle with and a water well on the western portion	Previous report

Date Range	Subject Property Description and Use (Historical Addresses)	Source(s)
2006	Vacant land, with the exception of the water well and the railroad tracks	Aerial photograph
2009	Vacant land, with the exception of the water well, the railroad tracks, and a new concrete pad on the eastern portion	Aerial photograph
2012-Present	The current commercial building on the eastern portion, vacant land and storage yards, and the railroad tracks, occupied by various commercial tenants	Aerial photograph, site observation

The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
North	Wilbur Avenue followed by a car storage yard (2603 Wilbur Avenue)	CPS-SLIC, CERS, ENVIROSTOR, VCP, HAZNET, RCRA-SQG
Northeast	Wilbur Avenue followed by Gen On Energy Inc (APN: 051-031-020)	None identified
East	Transport Plus (3000 Wilbur Avenue)	CONTRA COSTA CO. SITE LIST, RCRA NONGEN / NLR
South	Railroad tracks followed by: Agricultural land (APN 051-052-053) Residences (1859-1957 Santa Fe Avenue)	None identified
West	Storage yards (2566-2570 Wilbur Avenue) Tidal Marine Construction Inc. (2540 Wilbur Avenue)	LUST, HIST CORTESE, CONTRA COSTA CO. SITE LIST, CERS (2540 Wilbur Avenue)

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

FINDINGS

Recognized Environmental Condition (REC) is defined by the ASTM Standard Practice E1527-13 as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

- AEI did not identify evidence of RECs during the course of this assessment.

Controlled Recognized Environmental Condition (CREC) is defined by the ASTM Standard Practice E1527-13 as a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

- AEI did not identify evidence of CRECs during the course of this assessment.

Historical Recognized Environmental Condition (HREC) is defined by the ASTM Standard Practice E1527-13 as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

- The subject property is listed as a closed release case in the EnviroStor database as of March 6, 2006. According to Mr. Eric Chodoroff, the DTSC Project Manager for the case, all of the DTSC's records for the case are available for review on EnviroStor.

  According to EnviroStor records, the subject property was undeveloped prior to the late 1940s, when railroad sidings were installed. An aboveground storage tank (AST) was constructed at the site in the early to mid 1970s, surrounded by an eight to nine foot high berm. The AST contained bunker C fuel oil until it was permanently removed from service in 1992. A pipeline ran from the East Mill, located to the north of the site, to the AST. The AST and a portion of the pipeline were removed in 1999. The remainder of the pipeline that ran from the East Mill to the AST was removed in 2005. A credit union office was constructed on the western boundary of the subject property in the mid 1970s and was demolished in the late 1990s. In addition, several concrete slabs were constructed on the eastern side of the subject property in the mid to late 1980s for an experimental sludge composting operation and remained intact on site as of 2006.

  A series of soil investigations were conducted at the subject property in 2003, 2004, and 2005. In 2003, BBL collected nine subsurface soil samples from three deep borings in the vicinity of the AST (3 depth intervals) that were analyzed for semi-volatile organic compounds (SVOCS), petroleum hydrocarbons, and dioxinslfurans. Six surface soil samples were also collected along the railroad siding and analyzed for Title 22 metals, volatile organic compounds (VOCs), SVOCs, petroleum hydrocarbons, and dioxinslfurans. Three soil and three concrete chip samples were collected from the concrete pads on the eastern side of the Site and analyzed for dioxinslfurans. Analytical results indicated detectable concentrations of inorganics, petroleum hydrocarbons, and dioxins/furans in the surface and subsurface soils. VOCs and SVOCs were not detected.

  In 2004, Blasland, Bouck & Lee, Inc. (BBL) collected surface and shallow soil samples from seven locations and analyzed for priority pollutant metals, polycyclic aromatic hydrocarbons (PAHs), dioxinlfurans, and total petroleum hydrocarbons (TPH), with VOCs analyzed in six of the shallow samples. Surface soil samples at two locations were also analyzed for organochlorine pesticides. In addition, soil samples were collected from depths just above the groundwater table at four locations and analyzed for PAHs, TPH, and VOCs. An additional sample was collected from one boring 14 to 15 feet below ground surface where dark-colored soil was observed. Groundwater samples were also collected from two locations and analyzed for PAHs, TPH, and VOCs; depth to groundwater ranged from 17 to 24 feet bgs.

During the 2005 removal of the pipeline between the subject property and the East Mill Site, six soil confirmation samples were collected from the bottom of the pipeline excavation. Samples were analyzed for petroleum hydrocarbons in the diesel and motor oil ranges following silica gel cleanup and PAHs.

These investigations determined that:

- All metals and pesticides were either not detected or the maximum concentrations detected were either within background ranges or below residential preliminary remediation goals (residential PRGs) developed by the U.S. Environmental Protection Agency (EPA).
- All detected concentrations of volatile and semivolatile organic compounds were below their associated residential PRG.
- Of the thirty-three soil samples from the subject property and six final confirmation soil samples from the pipeline excavation, only one shallow soil sample contained a polycyclic aromatic hydrocarbon (PAH) above its residential PRA. Benzo(a)pyrene was detected at 100 micrograms per kilogram (ug/kg), exceeding its residential PRG of 62 ug/kg in a sample from RR-3RE from 2 to 2.5 feet below the ground surface.
- Twenty-seven samples were analyzed for dioxinlfurans (WHO Dioxin TEQ). Two samples, which had WHO Dioxin TEQ concentrations of 4.33 and 10.5 picograms per gram (pg/g), were above the residential PRG of 3.9 pg/g but below the industrial PRG of 16 pg/g. The dioxin congener profiles for one of the two samples was similar to the ambient congener profile while the other was similar to the profile from the East Mill indicative of process-related material. The term dioxinslfurans refers to polychlorinated dibenzo-p-dioxins (dioxins) and polychlorinated dibenzofurans (furans).
- Thirty-three soil samples from the subject property and six final soil confirmation samples from the pipeline excavation were analyzed for petroleum hydrocarbons. With the exception of one sample, concentrations of TPH were detected below site screening levels of 100 milligrams per kilogram (mg/kg) diesel range hydrocarbons and 500 mg/kg motor oil range hydrocarbons, which were set to be consistent with the Contra Costa County Environmental Health Department's screening levels. TPH exceeded the site screening levels in only one surface soil sample (RRDB-2RE), which had 130 mg/kg TPH as diesel and 1,100 mg/kg TPH as motor oil. However, TPH was not detected in deeper sample (2 to 2.5 feet bgs) at the same location. Final soil confirmation samples contained petroleum hydrocarbons below the site screening levels.
- Chemicals detected in groundwater were at or below their associated California Maximum Contaminant Levels (MCLs).

In the case closure letter dated March 6, 2006, the DTSC noted that "the Site does not appear to pose a threat to human health or the environment under residential land use. Therefore, DTSC determines that no further action is necessary with respect to investigation and remediation of hazardous substances at the subject property and a certificate of completion is enclosed. As with any real property, if previously unidentified contamination is discovered at the Site, additional assessment, investigation and/or

cleanup may be required." The DTSC did not establish any required controls for the subject property upon closure. According to the Potential Purchaser representative, Mr. Bob Hammons, there are no redevelopment plans or change in uses for the subject property in the near future. While residual levels of contaminants were present above residential PRGs at the time of closure, the closed case represents a HREC based on the current industrial uses and reported future use.

Other Environmental Considerations (OEC) warrant discussion, but do not qualify as RECs as defined by the ASTM Standard Practice E1527-13. These include, but are not limited to, de minimis conditions and/or environmental considerations such as the presence of ACMs, LBP, radon, mold, and lead in drinking water, which can affect the liabilities and financial obligations of the client, the health and safety of site occupants, and the value and marketability of the subject property.

- In November 2019, GeoSolve drilled and sampled eight soil borings to 30 feet bgs, including groundwater, and eight shallow borings to 5 feet bgs to evaluate soil-gas at the subject property. The soil gas samples were all non-detect for TCE, PCE and other VOCs. PCBs were not detected in any shallow soil sample analyzed and organochlorine pesticides were mostly not detected in the shallow soil samples collected at 1 foot bgs, with the exception of DDE, which was detected at 0.013 mg/kg and 0.0044 mg/kg in two samples, which were below the ESLs for commercial development. Arsenic, lead and the other CAM 17 metals were detected within background concentrations in the shallow soil and subsurface soil samples. No elevated concentrations of VOCs were detected in soil-gas, subsurface soil and/or groundwater beneath the site. Metals in groundwater were mostly detected at background concentrations, with the exception of molybdenum, which was detected at 120 ug/L and 200 ug/L, which was slightly over the MCL for drinking water. GeoSolve noted that "these slightly elevated concentrations are most likely from weather granite within the dune sand beneath the site". Phenol was the most detected SVOC in the subsurface soil and groundwater beneath the site and is most likely from the former oil UST wrapping and/or contents. These SVOCs detected in soil were below the ESLs for commercial development. All SVOCs, with the exception of Benzo(a)anthracene, a PAH, were detected below the MCLs for drinking water. Benzo(a)anthracene was detected at 0.022 ug/L, which is slightly above the Tier 1 ESL of 0.017 ug/L established by the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) in January 2019. GeoSolve noted that "groundwater is not potable beneath the site and will not be a risk to surface operations", and therefore recommended no further action for the subject property. According to the SFBRWQCB's Pittsburg Plain Groundwater Basin Plan, the groundwater in the general vicinity of the subject property is designated as "potentially beneficial". While a PAH was detected slightly above its Tier 1 ESL, the impacts detected by this 2019 sampling event appear to be generally equivalent to the previous findings of the closed release case on the subject property from 2006. Based on the limited contaminant distribution, and the prior data and closure status of the release case, this information is not expected to represent a significant environmental concern.

CONCLUSIONS, OPINIONS, AND RECOMMENDATIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) and the *2019 MUFG Union Bank, N.A. Phase I Environmental Site Assessment Scope of Work* for the property located at 2580, 2590, 2600 Wilbur Avenue, Antioch, Contra Costa County, California, the *subject property*. Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

AEI did not identify evidence of RECs or CRECs in connection with the subject property during the course of this assessment. AEI recommends no further investigation for the subject property at this time.

1.0 INTRODUCTION

This report documents the methods and findings of the Phase I Environmental Site Assessment performed in conformance with the Master Environmental Services Agreement between AEI and MUFG Union Bank, N.A. dated July 26, 2016, and the MUFG Union Bank, N.A. Real-estate Information Management Service (RIMS) on-line award dated December 11, 2019 and scope and limitations of ASTM Standard Practice E1527-13, the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) and the *2019 MUFG Union Bank, N.A. Phase I Environmental Site Assessment Scope of Work* for the property located at 2580, 2590, 2600 Wilbur Avenue, Antioch, Contra Costa County, California (Appendix A: Figures and Appendix B: Property Photographs).

1.1 SCOPE OF WORK

The purpose of the Phase I ESA is to assist the client in identifying potential RECs, in accordance with ASTM E1527-13, associated with the presence of any hazardous substances or petroleum products, their use, storage, and disposal at and in the vicinity of the subject property. Property assessment activities focused on: 1) a review of federal, state, tribal, and local databases that identify and describe underground fuel tank sites, leaking underground fuel tank sites, hazardous waste generation sites, and hazardous waste storage and disposal facility sites within the ASTM approximate minimum search distance; 2) a property and surrounding site reconnaissance, and interviews with the past and present owners and current occupants and operators to identify potential environmental contamination; and 3) a review of historical sources to help ascertain previous land use at the site and in the surrounding area.

1.2 ADDITIONAL SERVICES

Other Environmental Considerations such as ACMs, LBP, lead in drinking water, radon, mold, and wetlands can result in business environmental risks for property owners which may disrupt current or planned operations or cash flow and are generally beyond the scope of a Phase I assessment as defined by ASTM E1527-13. Based upon the agreed-on scope of services this ESA did not include subsurface or other invasive assessments, business environmental risks, or other services not specifically identified and discussed herein.

1.3 SIGNIFICANT ASSUMPTIONS

The following assumptions are made by AEI in this report. AEI relied on information derived from secondary sources including governmental agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, and personal interviews. AEI has reviewed and evaluated the thoroughness and reliability of the information derived from secondary sources including government agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, or personal interviews. It appears that all information obtained from outside sources and reviewed for this assessment is thorough and reliable. However, AEI cannot guarantee the thoroughness or reliability of this information.

Groundwater flow, unless otherwise specified by on-site well data or well data from the subject property or nearby sites, is inferred from contour information depicted on the USGS topographic maps. AEI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.4 LIMITATIONS

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this assessment apply strictly to the environmental regulations and property conditions existing at the time the assessment was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AEI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the assessment.

Considerations identified by ASTM as beyond the scope of a Phase I ESA that may affect business environmental risk at a given property include the following: ACMs, radon, LBP, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, mold, and high voltage lines. These environmental issues or conditions may warrant assessment based on the type of the property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-13.

If requested by the client, these non-scope issues are discussed herein. Otherwise, the purpose of this assessment is solely to satisfy one of the requirements for qualification of the innocent landowner defense, contiguous property owner or bona fide prospective purchaser under CERCLA. ASTM Standard Practice E1527-13 and the United States EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1. 42 U.S.C. § 9601(35)(B), referenced in the ASTM Standard Practice E1527-13.
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).
3. 42 U.S.C. § 9601(40) and 42 U.S.C. § 9607(q).

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of assessment into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings,

conclusions, and recommendations stated in this report are based on the data and information provided, current subject property use, and observations and conditions that existed on the date and time of the property reconnaissance.

Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

AEI's limited radon screening, if included, is intended to provide a preliminary screening to evaluate the potential presence of elevated radon concentrations at the site. The proposed scope is not intended to define the full extent of the presence of radon at the subject property. As such, the results should be used for lending purposes only. The recommendations and conclusions presented as a result of the limited preliminary radon screening apply strictly to the property conditions existing at the time the sampling was performed. The sample analytical results are only valid for the time, place, and condition of the site at the time of collection and AEI does not warrant that the results will be repeatable or are representative of past or future conditions.

1.5 LIMITING CONDITIONS/DEVIATIONS

The performance of this assessment was limited by the following:

- While additional assessments may have been conducted on the subject property, these documents must be provided for AEI's review in order for the information to be summarized/included in this report. Please refer to Section 6.3 for a summary of previous reports and other documentation provided to AEI during this assessment.
- Due to the size of the subject property, AEI performed a reconnaissance of the property utilizing a field technique of traversing the site in an attempt to provide an overlapping field of view. Due to the size of the property and the vegetation present on site, isolated areas of the site may have not been accessible for direct observation during AEI's field reconnaissance. Based on the nature of use, this limitation is not expected to significantly alter the findings of this assessment.
- Due to the large volume of materials within portions of the building and vehicles parked and items stored within exterior areas, direct visual observation of many of the floor and wall areas of the building and exterior ground surfaces was not possible. Features may be present that were not observed during AEI's field reconnaissance. Based on the quality of information obtained from other sources, this limitation is not expected to alter the overall findings of this assessment.
- On December 16, 2019, the Contra Costa County Fire Protection District, and Antioch Building Department were contacted for information on the subject property in order to identify historical tenants, property use and/or hazardous materials handling. Due to the time frame of this assessment, records at these agencies were not available for review. When the files are made available to AEI, if the records review reveals any items of concern for the subject property, an addendum to this report will be issued.

1.6 Data Failure and Data Gaps

According to ASTM E1527-13, data gaps occur when the Environmental Professional is unable to obtain information required by the Standard, despite good faith efforts to gather such information. Pursuant to ASTM E1527-13, only significant data gaps, defined as those that affect the ability of the Environmental Professional to identify RECs, need to be documented.

Data failure is one type of data gap. According to ASTM E1527-13, data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Pursuant to ASTM E1527-13, historical sources are required to document property use back to the property's first developed use or back to 1940, whichever is earlier, or periods of five years or greater.

1.6.1 Data Failure

AEI did not identify evidence of data failure during the course of this assessment.

1.6.2 Significant Data Gaps

AEI did not identify significant data gaps which affected our ability to identify RECs.

1.7 Reliance

All reports, both verbal and written, are for the benefit of MUFG Union Bank, N.A. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors, or assigns. Reliance is provided in accordance with the Master Environmental Services Agreement between AEI and MUFG Union Bank, N.A., dated July 26, 2016.

2.0 SITE AND VICINITY DESCRIPTION

2.1 SITE LOCATION AND DESCRIPTION

PROPERTY INFORMATION	
Site Address(es)	2580, 2590, 2600 Wilbur Avenue, Antioch, Contra Costa County, California 94509
Property ID (APN or Block/Lot)	051-032-009-6
Location	South of Wilbur Avenue
Property Type	Industrial/Manufacturing
SITE AND BUILDING INFORMATION	
Approximate Site Acreage/Source	10.27/Assessor
Number of Buildings	One
Building Construction Date(s)	Between 2009 and 2012
Building Square Footage (SF)/Source	9,600/Representative for the Property Ownership
Number of Floors/Stories	One
Basement or Subgrade Area(s)	None identified
Number of Units	9
Additional Improvements	Asphalt-paved parking areas, storage yards, storage containers, an abandoned railroad, chain link fenced areas, and associated landscaping
On-site Occupant(s)	Refer to table below
Current On-site Operations/Use	Truck and car parking, storage, and associated administrative activities
Current Use of Hazardous Substances	Yes; refer to Section 7.1
REGULATORY INFORMATION	
Regulatory Database Listing(s)	HAZNET (2), CONTRA COSTA CO. SITE LIST, ENVIROSTOR, VCP, FINDS, CERS HAZ WASTE, CERS

Subject Property Address/Unit	Tenant	Use
2580 Wilbur Avenue (yard space)	A&M Towing	Towing yard
2590 Wilbur Avenue #A (yard space)	C&J Favalora Trucking, Inc.	Truck parking
2600 Wilbur Avenue (yard space)	The Davey Tree Surgery Company	Truck parking
2600 Wilbur Avenue (yard space)	Genscape Inc.	Use of an infra-red camera device to detect heat signatures of neighboring power plants
2600 Wilbur Avenue (metal building)	Restoration Clean Up Company, Inc.	Storage
2600 Wilbur Avenue (yard space)	Roadsafe Traffic Systems, Inc.	Storage
2600 Wilbur Avenue (yard space)	Ronald V. Nick	Storage and parking of tour buses
2600 Wilbur Avenue (yard space)	Rutilo Bahena	Storage

Subject Property Address/Unit	Tenant	Use
2600 Wilbur Avenue (yard space)	James G. Schuneman, DBA: Schuneman Trucking	Truck parking and storage

2.2 On-Site Utilities

Utility	Source/System Information
Heating System	None
Cooling System	None
Potable Water	City of Antioch
Potable Water Connection Date	On-site water well: 2008 per well completion report (provides water to the building's restroom) Municipal water: 2012 per water service installation plans (provides water to the fire sprinklers within the building)
Sewage Disposal/Treatment	On-site septic tank
Sewage Disposal Connection Date	Storm drain line: 2012 per water service installation plans Current septic tank (located adjacent to the metal building): 2010 per septic tank installation plans Former septic tank (used by the former credit union office): Unknown

Utility source/system information listed in the table above is provided by Mr. Al Snell, Representative for the Property Ownership and Key Site Manager, unless otherwise noted above.

2.3 Site and Vicinity Characteristics

The subject property is located in a mixed commercial, residential and industrial area of Antioch, California. The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
North	Wilbur Avenue followed by a car storage yard (2603 Wilbur Avenue)	CPS-SLIC, CERS, ENVIROSTOR, VCP, HAZNET, RCRA-SQG
Northeast	Wilbur Avenue followed by Gen On Energy Inc (APN: 051-031-020)	None identified
East	Transport Plus (3000 Wilbur Avenue)	CONTRA COSTA CO. SITE LIST, RCRA NONGEN / NLR
South	Railroad tracks followed by: Agricultural land (APN 051-052-053) Residences (1859-1957 Santa Fe Avenue)	None identified

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
West	Storage yards (2566-2570 Wilbur Avenue) Tidal Marine Construction Inc. (2540 Wilbur Avenue)	LUST, HIST CORTESE, CONTRA COSTA CO. SITE LIST, CERS (2540 Wilbur Avenue)

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

2.4 PHYSICAL SETTING

Geologic Unit: Description/Source	Qs: Beach and dune sand (Quaternary)/USGS and United States Department of the Interior
Soil Series: Description/Source	Delhi sand: Eolian deposits derived from igneous and sedimentary rock/USDA Soil Survey
Groundwater Flow Direction/Source	North to northwest/Topographic map interpretation and DTSC release case information for 2603 Wilbur Avenue obtained from EnviroStor
Estimated Depth to Groundwater/ Source	5 to 28 feet bgs/DTSC release case information for 2603 Wilbur Avenue obtained from EnviroStor
Surface waters on the subject property or adjacent sites	None
Known groundwater contamination plume(s)	None identified

Note: Groundwater flow direction can be influenced locally and regionally by the presence of local wetland features, surface topography, recharge and discharge areas, horizontal and vertical inconsistencies in the types and location of subsurface soils, and proximity to water pumping wells. Depth and gradient of the water table can change seasonally in response to variation in precipitation and recharge, and over time, in response to urban development such as storm water controls, impervious surfaces, pumping wells, cleanup activities, dewatering, seawater intrusion barrier projects near the coast, and other factors.

3.0 HISTORICAL REVIEW OF SITE AND VICINITY

Reasonably ascertainable standard historical sources as outlined in ASTM Standard E1527-13 were used to determine previous uses and occupancies of the subject property that are likely to have led to RECs in connection with the subject property. A chronological summary of historical data found, including but not limited to aerial photographs, historical city directories, Sanborn fire insurance maps, and agency records, is as follows:

Date Range	Subject Property Description and Use (Historical Addresses)	Source(s)
1908-1939	Undeveloped land	Aerial photographs, topographic maps
1946	Fibreboard purchased the subject property from Santa Fe Land Improvement Company	Previous report
1949	Undeveloped land with railroad tracks running through the middle	Aerial photographs
1957-1959	Undeveloped land with railroad tracks running through the middle and a water well near the northwestern corner	Aerial photographs, topographic maps
1963-1972	Undeveloped land with railroad tracks running through the middle, and a water well and parking lot on the northwestern corner	Aerial photographs, topographic maps
1978-1979	Undeveloped land on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a new commercial building (credit union building) with a parking lot and water well on the northwestern corner	Aerial photographs, topographic maps, previous report
1984	A concrete pad/material storage for sludge composting activities on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a commercial building (credit union building) and water well with parking lot on the northwestern corner	Aerial photographs, previous report
1988	Gaylord purchased the subject property from Fibreboard	
1993	A concrete pad for former sludge composting activities on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a commercial building (credit union building) with parking lot on the northwestern corner	Aerial photographs, previous report
1998-2002	A concrete pad for former sludge composting activities on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a water well on the western portion. The credit union building and parking lot have been removed	Aerial photographs, previous report
2002	A concrete pad for former sludge composting activities on the eastern portion, railroad tracks running through the middle with and a water well on the western portion	Previous report
2006	Vacant land, with the exception of the water well and the railroad tracks	Aerial photograph
2009	Vacant land, with the exception of the water well, the railroad tracks, and a new concrete pad on the eastern portion	Aerial photograph
2012-Present	The current commercial building on the eastern portion, vacant land and storage yards, and the railroad tracks, occupied by various commercial tenants	Aerial photograph, site observation

The following addresses are associated with the subject property: 2580 and 2590 Wilbur Avenue (as identified in the tenant rent rolls provided by the property ownership). These addresses were also researched as part of this assessment.

Environmental concerns associated with the former industrial uses of the subject property are further discussed in Section 4.6.

If available, copies of historical sources are provided in the report appendices.

3.1 AERIAL PHOTOGRAPHS

AEI reviewed aerial photographs of the subject property and surrounding area. A search was made of the EDR collection of aerial photographs. Aerial photographs were reviewed for the following years:

Year(s)	Subject Property Description	Adjacent Site Descriptions
1937	Undeveloped land	NORTH: Road followed by undeveloped land NORTHEAST: Road followed by undeveloped and agricultural land EAST: Agricultural land SOUTH: Railroad tracks followed by agricultural land WEST: Undeveloped land
1939	No significant changes	NORTH: No significant changes NORTHEAST: No significant changes EAST: Structures and agricultural land SOUTH: No significant changes WEST: Structures and undeveloped land
1949	Undeveloped land with railroad tracks running through the middle	NORTH: Road followed by a large industrial building NORTHEAST: Road followed by vacant land EAST: The current commercial building SOUTH: Railroad tracks followed by agricultural land and residences WEST: Small commercial buildings
1957, 1959	Undeveloped land with railroad tracks running through the middle and a water well near the northwestern corner	NORTH: No significant changes NORTHEAST: Road followed by vacant land and large ASTs EAST: No significant changes SOUTH: No significant changes WEST: No significant changes
1963, 1966, 1972*	Undeveloped land with railroad tracks running through the middle, and a water well and parking lot on the northwestern corner	NORTH: No significant changes NORTHEAST: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: No significant changes
1979*	Undeveloped land on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a new commercial building (credit union building) with a parking lot and water well on the northwestern corner	NORTH: No significant changes NORTHEAST: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: The current storage yard

Year(s)	Subject Property Description	Adjacent Site Descriptions
1984	A concrete pad/material storage for sludge composting activities on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a commercial building (credit union building) with a parking lot and water well on the northwestern corner	NORTH: No significant changes NORTHEAST: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: No significant changes
1993	A concrete pad for former sludge composting activities on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a commercial building (credit union building) with parking lot on the northwestern corner	NORTH: No significant changes NORTHEAST: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: No significant changes
1998	A concrete pad for former sludge composting activities on the eastern portion, railroad tracks running through the middle with a large fuel AST, and a water well on the western portion. The building and parking lot have been removed	NORTH: Road followed by industrial development (large building has been removed) NORTHEAST: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: No significant changes
2006	Vacant land, with the exception of the water well and the railroad tracks	NORTH: Road followed by vacant land NORTHEAST: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: No significant changes
2009	Vacant land, with the exception of the water well, the railroad tracks, and a new concrete pad on the eastern portion	NORTH: No significant changes NORTHEAST: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: No significant changes
2012, 2016	The current commercial building on the eastern portion, vacant land and storage yards, and the railroad tracks	NORTH: No significant changes NORTHEAST: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: No significant changes

*Due to poor image quality and/or scale, detailed observation of site features was not possible.

Based on the review of an ALTA survey in addition to the 2002 Phase I ESA report, AEI was able to identify the presence of the water well in the aerial photographs.

Environmental concerns associated with the former industrial uses of the subject property are further discussed in Section 4.6.

3.2 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas. A search was made of the EDR collection of Sanborn Fire Insurance maps.

Sanborn map coverage was not available for the subject property.

3.3 CITY DIRECTORIES

A search of historical city directories was conducted for the subject property utilizing EDR. No potential tenants of concern were identified based on AEI's review of the historical city directories. Directories were reviewed in approximate five-year increments from 1975 to 2014. The first listing for the subject property appeared in 1992. Please refer to the appendices for a complete list of historical subject property tenants identified by EDR. The following table summarizes the results of the city directory search.

Year(s)	Address - Occupant Listed
1992	2600 Wilbur Avenue: TYLER CONSTRUCTION INC
1995, 2000, 2005, 2010, 2014	Addresses not listed

If listed above, XXXX indicates that the address is valid but there is no occupancy information available.

AEI did not identify potential environmental concerns in association with the historical use of the subject property during the city directory review.

3.4 HISTORICAL TOPOGRAPHIC MAPS

A search of historical topographic maps was conducted for the subject property utilizing NETR Online (www.historicaerials.com). Topographic maps were reviewed for the following years:

Year(s)	Subject Property Description	Adjacent Site Descriptions
1908, 1914, 1918, 1936, 1943, 1947, 1951, 1955	No features depicted	NORTH: No features depicted NORTHEAST: No features depicted EAST: No features depicted SOUTH: Railroad tracks WEST: No features depicted
1960, 1965	Railroad tracks and vegetation	NORTH: Commercial buildings NORTHEAST: Commercial buildings EAST: Vegetation SOUTH: Buildings and agricultural land WEST: No features depicted
1969	Railroad tracks and vegetation	NORTH: No significant changes NORTHEAST: Large tanks EAST: Commercial buildings SOUTH: No significant changes WEST: Commercial buildings
1978, 1986, 1995	Railroad tracks, an AST and vegetation	NORTH: No significant changes NORTHEAST: No significant changes EAST: No significant changes SOUTH: Residences WEST: No significant changes

Year(s)	Subject Property Description	Adjacent Site Descriptions
2012, 2015, 2018	No features depicted	NORTH: No features depicted NORTHEAST: No features depicted EAST: No features depicted SOUTH: Railroad tracks WEST: No features depicted

Environmental concerns associated with the former industrial uses of the subject property are further discussed in Section 4.6.

3.5 CHAIN OF TITLE

In accordance with our approved scope of services, a chain of title search was not performed as part of this assessment.

4.0 REGULATORY AGENCY RECORDS REVIEW

Local and state agencies, such as environmental health departments, fire prevention bureaus, and building and planning departments are contacted to identify any current or previous reports of hazardous substance use, storage, and/or unauthorized releases that may have impacted the subject property. In addition, information pertaining to AULs, defined as legal or physical restrictions, or limitations on the use of, or access to, a site or facility, is requested.

4.1 LOCAL ENVIRONMENTAL HEALTH DEPARTMENT AND/OR STATE ENVIRONMENTAL AGENCY

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Contra Costa County Department of Environmental Health (CCCDEH)	December 16, 2019	Email	Mr. Alex McMullen	Records discussed below.

Records Summary - 2600 Wilbur Avenue

Date	Occupant	Document Type	Document Notes/Violations
2015, 2016	JT Tours	Notice from the CCCDEH	Business is required to submit a HMBP on CERS
2017	JT Tours	Hazardous Waste Generator Reporting Form	Business generated 1.2 tons of hazardous waste in 2016
2017	JT Tours	CERS	Business generates hazardous waste only
2017-2018, 2018-2019, 2019-2020	JT Tours	Permit	Permit for HWG: less than 5 tons/ year and HMBP
2017	JT Tours	Inspection/Compliance Checklist	Minor violations including no labels/ lids on two 55 gallon used oil drums, failure to submit HMBP on CERS
2018	JT Tours	Hazardous Waste Generator Reporting Form	Business generated 1.03 tons of hazardous waste in 2017
2019	JT Tours	Inspection Reports	Inspection of a bus tour company. Facility is closing, minor violations noted including improper labeling of used oil drums/drums not properly covered/used oil filter drum overfilled

No records were on file with the CCCDEH for the addresses 2580 and 2590 Wilbur Avenue. Review of information on file for the subject property at the CCCDEH did not reveal any significant environmental concerns.

4.2 FIRE DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Contra Costa County Fire Protection District (CCCFPD)	December 16, 2019	Email	Ms. Lynette R.	No records on file for 2580 and 2590 Wilbur Avenue. Records for 2600 Wilbur Avenue are pending, refer to Section 1.5

4.3 BUILDING DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Antioch Building Department (ABD)	December 16, 2019	Email	Ms. Cheryl Hammers	Records pending, refer to Section 1.5

4.4 PLANNING DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Antioch Planning Department (APD)	December 16, 2019	Telephone	N/A	No evidence indicating the existence of AULs on file for the subject property

4.5 ASSESSOR'S OFFICE

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Contra Costa County Assessor's Office	December 16, 2019	Website	N/A	Information obtained is discussed below

Records Summary

APN	051-032-009-6
Acreage	10.27 acres
Construction Date	2010
Building Square Footage	Not provided
Current Owner	Not provided
Additional Information	N/A

4.6 OTHER AGENCIES SEARCHED

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
CA State Water Resources Control Board (SWRCB) GeoTracker	December 16, 2019	Website	N/A	No records on file

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
CA Department of Toxic Substances Control (DTSC) Hazardous Waste Tracking System (HWTS)	January 2, 2020	Website	N/A	Records discussed below
CA DTSC Envirostor	December 16, 2019	Website and email	Mr. Eric Chodoroff, case worker for the subject property's case	Records discussed below
Bay Area Air Quality Management District (BAAQMD)	December 16, 2019	Email	Ms. Magnolia Vinluan-Chan	No records on file

California DTSC HWTS Database Summary

Occupant	Year(s)	Hazardous Waste Generated	Amount (Tons)
C&J Favalora Trucking Inc	2015	No records found	N/A
PG&E	2016	Unspecified oil-containing waste, blank/unknown	0.4
PG&E	2016	Contaminated soils from site clean-up, blank/ unknown	219.96
Juan Talvera DBA JT Tours	2015	No records found	N/A

According to the representative for the ownership, Mr. Al Snell noted that PG&E did lease +/- 1 .5 AC of land west of the subject property building to store equipment and a stockpile. This was from February to August of 2016. Mr. Snell indicated that they were doing borings for utility work at off-site locations and used the leased portion of the subject property to store equipment and stockpiling of the boring tailings. When they completed the project, PG&E removed all stockpiles and equipment. AEI was provided a 2016 Temporary Permit to Enter and Use Property agreement with PG&E, which notes that PG&E will use the subject property "for the purpose of staging and laydown area, inclusive of parking, placement of a construction trailer, material storage and fabrication, etc, in support of the S-259 Station Rebuild Project. PG&E will lay fabric under gravel on the Permit area". Based on this information, the DTWC HWTS listings are not expected to represent a significant environmental concern.

California DTSC Envirostor Database Summary

The subject property is listed as a closed release case in the EnviroStor database as of March 6, 2006. According to Mr. Eric Chodoroff, the DTSC Project Manager for the case, all of the DTSC's records for the case are available for review on EnviroStor.

According to EnviroStor records, the subject property was undeveloped prior to the late 1940s, when railroad sidings were installed. An aboveground storage tank (AST) was constructed at the site in the early to mid 1970s, surrounded by an eight to nine foot high berm. The AST contained bunker C fuel oil until it was permanently removed from service in 1992. A pipeline ran from the East Mill, located to the north of the site, to the AST. The AST and a portion of the pipeline were removed in 1999. The remainder of the pipeline that ran from the East Mill to the AST was removed in 2005. A credit union office was constructed

on the western boundary of the subject property in the mid 1970s and was demolished in the late 1990s. In addition, several concrete slabs were constructed on the eastern side of the subject property in the mid to late 1980s for an experimental sludge composting operation and remained intact on site as of 2006.

A series of soil investigations were conducted at the subject property in 2003, 2004, and 2005. In 2003, BBL collected nine subsurface soil samples from three deep borings in the vicinity of the AST (3 depth intervals) that were analyzed for semi-volatile organic compounds (SVOCS), petroleum hydrocarbons, and dioxinslfurans. Six surface soil samples were also collected along the railroad siding and analyzed for Title 22 metals, volatile organic compounds (VOCs), SVOCs, petroleum hydrocarbons, and dioxinslfurans. Three soil and three concrete chip samples were collected from the concrete pads on the eastern side of the Site and analyzed for dioxinslfurans. Analytical results indicated detectable concentrations of inorganics, petroleum hydrocarbons, and dioxins/furans in the surface and subsurface soils. VOCs and SVOCs were not detected.

In 2004, Blasland, Bouck & Lee, Inc. (BBL) collected surface and shallow soil samples from seven locations and analyzed for priority pollutant metals, polycyclic aromatic hydrocarbons (PAHs), dioxinlfurans, and total petroleum hydrocarbons (TPH), with VOCs analyzed in six of the shallow samples. Surface soil samples at two locations were also analyzed for organochlorine pesticides. In addition, soil samples were collected from depths just above the groundwater table at four locations and analyzed for PAHs, TPH, and VOCs. An additional sample was collected from one boring 14 to 15 feet below ground surface where dark-colored soil was observed. Groundwater samples were also collected from two locations and analyzed for PAHs, TPH, and VOCs; depth to groundwater ranged from 17 to 24 feet bgs.

During the 2005 removal of the pipeline between the subject property and the East Mill Site, six soil confirmation samples were collected from the bottom of the pipeline excavation. Samples were analyzed for petroleum hydrocarbons in the diesel and motor oil ranges following silica gel cleanup and PAHs.

These investigations determined that:

- All metals and pesticides were either not detected or the maximum concentrations detected were either within background ranges or below residential preliminary remediation goals (residential PRGs) developed by the U.S. Environmental Protection Agency (EPA).
- All detected concentrations of volatile and semivolatile organic compounds were below their associated residential PRG.
- Of the thirty-three soil samples from the subject property and six final confirmation soil samples from the pipeline excavation, only one shallow soil sample contained a polycyclic aromatic hydrocarbon (PAH) above its residential PRA. Benzo(a)pyrene was detected at 100 micrograms per kilogram (ug/kg), exceeding its residential PRG of 62 ug/kg in a sample from RR-3RE from 2 to 2.5 feet below the ground surface.
- Twenty-seven samples were analyzed for dioxinlfurans (WHO Dioxin TEQ). Two samples, which had WHO Dioxin TEQ concentrations of 4.33 and 10.5 picograms per gram (pg/g), were above the residential PRG of 3.9 pg/g but below the industrial PRG of 16 pg/g. The dioxin congener profiles for one of the two samples was similar to the ambient congener profile while the other was similar to the profile from the East Mill indicative of process-related material. The term dioxinslfurans refers to polychlorinated dibenzo-p-dioxins (dioxins) and polychlorinated dibenzofurans (furans).

- Thirty-three soil samples from the subject property and six final soil confirmation samples from the pipeline excavation were analyzed for petroleum hydrocarbons. With the exception of one sample, concentrations of TPH were detected below site screening levels of 100 milligrams per kilogram (mg/kg) diesel range hydrocarbons and 500 mg/kg motor oil range hydrocarbons, which were set to be consistent with the Contra Costa County Environmental Health Department's screening levels. TPH exceeded the site screening levels in only one surface soil sample (RRDB-2RE), which had 130 mg/kg TPH as diesel and 1,100 mg/kg TPH as motor oil. However, TPH was not detected in deeper sample (2 to 2.5 feet bgs) at the same location. Final soil confirmation samples contained petroleum hydrocarbons below the site screening levels.
- Chemicals detected in groundwater were at or below their associated California Maximum Contaminant Levels (MCLs).

In the case closure letter dated March 6, 2006, the DTSC noted that "the Site does not appear to pose a threat to human health or the environment under residential land use. Therefore, DTSC determines that no further action is necessary with respect to investigation and remediation of hazardous substances at the subject property and a certificate of completion is enclosed. As with any real property, if previously unidentified contamination is discovered at the Site, additional assessment, investigation and/or cleanup may be required." Based on this information, the closed case represents a HREC.

4.7 Oil and Gas Wells

Agency	Date Referenced	Resource	Oil or gas wells located within 500 feet of the subject property
State of California Department of Conservation, Division of Oil, Gas & Geothermal Resources (CA DOGGR)	January 2, 2020	CA DOGGR Map	No

4.8 Oil and Gas Pipelines

Agency	Date Referenced	Resource	Pipelines located within 500 feet of the subject property
National Pipeline Mapping System (NPMS)	January 2, 2020	NPMS Public Map Viewer	Information obtained is discussed below

According to information obtained from the NPMS Public Map Viewer, an active underground natural gas pipeline operated by CPM Pipeline Company runs along the southern adjacent railroad tracks; see NPMS map in appendices. No stressed vegetation or olfactory indications of a release were observed in the vicinity of the pipeline and no records of past releases or violations associated with this pipeline were identified within the regulatory database. Due to its contents, the natural gas pipeline is not expected to represent a potential threat to soil or groundwater conditions at the subject property. Based on this information, the pipeline does not appear to represent a significant environmental concern to the subject property at this time.

4.9 STATE ENVIRONMENTAL SUPERLIENS

In accordance with our approved scope of services, AEI did not assess whether the subject property is subject to any state environmental superliens.

4.10 STATE PROPERTY TRANSFER LAWS

In accordance with our approved scope of services, AEI did not assess whether the subject property is subject to any state property transfer laws.

5.0 REGULATORY DATABASE RECORDS REVIEW

AEI contracted EDR to conduct a search of publicly available information from federal, state, tribal, and local databases containing known and suspected sites of environmental contamination and sites of potential environmental significance. Data gathered during the current regulatory database search is compiled by EDR into one regulatory database report. Location information for listed sites is designated using geocoded information provided by federal, state, or local agencies and commonly used mapping databases with the exception of "Orphan" sites. Due to poor or inadequate address information, Orphan sites are identified but not geocoded/mapped by EDR, rather, information is provided based upon vicinity zip codes, city name, and state. The number of listed sites identified within the approximate minimum search distance from the federal and state environmental records database listings specified in ASTM Standard E1527-13 is summarized in Section 5.1, along with the total number of Orphan sites. A copy of the regulatory database report, which includes detailed descriptions of the databases noted below, is included in Appendix C of this report.

In determining if a listed site is a potential environmental concern to the subject property, AEI generally applies the following criteria to classify the site as lower potential environmental concern: 1) the site only holds an operating permit (which does not imply a release), 2) the site's distance from, and/or topographic position relative to, the subject property, and/or 3) the site has recently been granted "No Further Action" by the appropriate regulatory agency.

Regulatory database listings associated with the subject property, adjacent site(s) and/or nearby sites of concern that were determined to warrant additional discussion are identified and further discussed in Section 5.1.

5.1 RECORDS SUMMARY

Database	Search Distance (Miles)	Listings Within Search Distance	Subject Property	Adjacent Site(s)	Other Nearby Sites of Concern
NPL	1.0	0			
DELISTED NPL	0.5	0			
SEMS/CERCLIS	0.5	0			
SEMS-ARCHIVE/CERCLIS NFRAP	0.5	2			
RCRA CORRACTS	1.0	2			
RCRA-TSDF	0.5	1			
RCRA LQG, SQG, CESQGs, NLR	SP/ADJ	2		✔	
US ENG CONTROLS	SP	0			
US INST CONTROLS	SP	0			
ERNS	SP	0			
STATE/TRIBAL HWS	1.0	14	✔	✔	
STATE/TRIBAL SWLF	0.5	0			
STATE/TRIBAL REGISTERED STORAGE TANKS	SP/ADJ	0			
STATE/TRIBAL LUST	0.5	4		✔	

Database	Search Distance (Miles)	Listings Within Search Distance	Subject Property	Adjacent Site(s)	Other Nearby Sites of Concern
STATE/TRIBAL EC and IC	SP	0			
STATE/TRIBAL VCP	0.5	4	✔		
STATE/TRIBAL BROWNFIELD	0.5	0			
ORPHAN	N/A	1			
ADDITIONAL ENVIRONMENTAL RECORD SOURCES	SP/ADJ	12	✔	✔	

Facility Name	PG&E, JT TOURS, INDUSTRIAL LOT WITH RAILROAD SIDING
Address	2600 Wilbur Avenue
Distance & Direction	Subject Property
Hydrologic Position	N/A
Databases Listed	HAZNET (2), CONTRA COSTA CO. SITE LIST, ENVIROSTOR, VCP, FINDS, CERS HAZ WASTE, CERS
Comments	PG&E is listed as producing hazardous wastes under the subject property's address, which is further discussed under Section 4.6. The subject property is listed as a closed EnviroStor and VCP case, which is further discussed in Section 4.6. The subject property is listed as a FINDS site in association with the above listings. Based on the nature of this listing, it is not expected to represent a significant environmental concern. JT Tours, a former tenant of the subject property, is listed as being permitted for a HMBP and as a hazardous waste generator. Various minor violations and enforcement actions were noted for the former tenant, including improper container labels and lids and lack of a HMBP, which is further discussed in Section 4.1.

Facility Name	AIKEN UNDERGROUND INC
Address	3000 Wilbur Avenue
Distance & Direction	Adjacent to the east
Hydrologic Position	Cross-gradient
Databases Listed	CONTRA COSTA CO. SITE LIST, RCRA NONGEN / NLR
Comments	This site is listed as being formerly permitted for a HMBP and hazardous waste generation. The site is also listed as a Non-Generator who does not presently generate hazardous waste as of 2007. Based on the lack of a documented release, the review of regulatory agency files for this site was not deemed necessary, and the site is not expected to represent a significant environmental concern.

Facility Name	GAYLORD CONTAINER CORPORATION-EAST MILL, EAST MILL, LOUISIANA-PACIFIC CORP SAN JOAQUIN MILL
Address	2603 Wilbur Avenue, E Wilbur Ave
Distance & Direction	Adjacent to the north
Hydrologic Position	Down- to cross-gradient
Databases Listed	CPS-SLIC, CERS, ENVIROSTOR, VCP, HAZNET, RCRA-SQG

Comments	This site is listed as an open DTSC release case and an open SLIC release case. AEI reviewed information on EnviroStor and GeoTracker. The former Gaylord Container Corporation East Mill facility covers approximately 80 acres, and most of the surrounding area was undeveloped or used for agriculture. The majority of the site is vacant with the exception of building foundations and portions of surface hardscaped areas remaining from past industrial paper manufacturing operations. Between 1947 and early 1991, the site operated as a paperboard/linerboard manufacturing facility utilizing the Kraft process to convert wood chips into pulp for the manufacturing of virgin fiber linerboard. Other activities on the East Mill site were in support of the pulping operation and the paper machine operations. The buildings and structures within the site were formerly used for: finishing of paper products; packing, shipping, and transfer of paper products off site; and administrative/maintenance functions. Buildings within the site included: a paper machine building, a paint shop, a jute plant, machine/automotive/carpentry shops, the additive building, a waste water treatment system, and a carton plant building. Most of the aboveground structures were demolished in the mid- to late 1990s and the remaining aboveground structures were demolished in 2004 and 2005. Underground pipelines associated with the former paper and pulp facility were inspected, cleaned where possible and abandoned in place, or removed if their condition precluded cleaning. Concrete foundations and footings associated with former structures remain in some areas of the site. Demolition of the belowground features on the East Mill occurred from 2005 to 2008 with the removal or cleaning of pipelines, underground tanks, and other subsurface features. The primary classes of chemicals detected in groundwater at the East Mill include low concentrations of dioxins/furans, several volatile organic compounds (VOCs), PAHs, TPH quantified as diesel (TPHd) and as motor oil (TPHmo) (i.e., in the C10-C24 and C24-C36 ranges, respectively), and several dissolved metals. PCE usage at the site was never documented. Previous investigations to evaluate potential PCE source areas and to define the extent of the PCE groundwater plume have included an active soil vapor survey, membrane interface probe (MIP) investigation, cone penetrometer testing, and well installation. Soil vapor concentrations from the 2009 soil vapor survey were generally low and did not conclusively identify a source. Based on the distribution and extent of the PCE plume in groundwater, it is possible that multiple sources were present. A likely release scenario is that PCE was released into the upper zone sands, leaked through the fine-grained unit and distributed into the lower zone sands. The PCE groundwater plume within the lower zone is more laterally extensive (i.e., towards the river) than within the upper zone. The Black Liquor Pond (BLP) is an approximately 450 foot by 125 foot (~1.3 acres) area located near the southeast corner of the East Mill property, and was remediated in 2004/2005 under a DTSC-approved Interim Action. Remediation was conducted to mitigate potential chemical migration from soil into shallow groundwater and potential exposure to impacted soil. A total of 45,840 tons of BLP fill material was removed from the former BLP area and disposed as non-hazardous waste at Allied Keller Canyon Landfill in Pittsburg, California. The excavation extended to a maximum depth of 21 feet below ground surface (bgs).

	Historically, dioxins/furans have been detected in a few groundwater samples at concentrations below World Health Organization (WHO) Toxic Equivalent Guidelines (TEQs). PAHs have been detected, but at concentrations generally below California Maximum Contaminant Levels (MCLs) for Drinking Water. Of the detected VOCs, PCE is the primary constituent of potential concern (COPC) in groundwater, and historically has been detected at concentrations as high as 570 micrograms per liter (µg/L) in samples from two monitoring wells (MW-19B1 and former well MW-13). According to historical analytical data, TPHd and TPHmo have been detected at elevated concentrations (up to 390,000 and 160,000 µg/L, respectively) in samples collected from well MW-10, located on the southern edge of the Former Black Liquor Pond. However, chromatograms for the groundwater samples with these hydrocarbon concentrations generally do not match petroleum hydrocarbon chromatogram standards for diesel or motor oil. Prior review of the chromatograms indicated the organic compounds present are not diesel or motor oil, but likely are dissolved wood-related compounds. Historically, para-isopropyl toluene (para-IPT) has been consistently detected in well MW-11 at concentrations as high as 1,900 µg/L and sporadically detected in well MW-16 at concentrations as high as 780 µg/L; these wells are located downgradient of the Former Black Liquor Pond. This constituent is thought to be a dissolved wood-related compound. Dissolved metals (primarily arsenic, chromium, and nickel, and to a lesser degree, antimony) have been detected above MCLs at various wells across the site and have been identified as the primary inorganic COPCs for groundwater at the site. Elevated pH values (i.e., greater than 9 standard units [SU]) have been consistently measured in samples from wells MW-7 and MW-10. Historically, Total dissolved solids (TDS) has ranged from 62 (in well MW-23L2), reflecting basal groundwater concentrations, to 170,000 milligrams per liter (mg/L; in well MW-10) which reflects impacts from the BLP. According to the most recent (2017 and 2018) groundwater monitoring reports, wells MW-10 and MW-17 (both located approximately 160 feet north of the subject property) were sampled and no constituents of concern were detected above laboratory reporting limits with the exception of 15.5 ug/L anthracene in MW-10, and the following dissolved metals: 3,150 ug/L arsenic, 2,590 ug/L chromium, 220 ug/L manganese, 148 ug/L ferrous iron and 5,180 ug/L nickel in MW-10 and 33.6 ug/L arsenic, 11.7 ug/L chromium, and 16.8 ug/L manganese in MW-17. The site is still open undergoing investigation. Based on the data obtained from nearby wells, the groundwater gradient and the recent sampling data obtained from the subject property (refer to Section 6.3), the site is not expected to represent a significant environmental concern. The LOUISIANA-PACIFIC CORP SAN JOAQUIN MILL, operated by Gaylord Container Corp, is listed as a small quantity generator of hazardous wastes in 1996. Based on the lack of a documented release, the review of regulatory agency files for this site was not deemed necessary, and the site is not expected to represent a significant environmental concern.

Facility Name	ANTIOCH PAVING COMPANY
Address	2540 Wilbur Avenue
Distance & Direction	Adjacent to the west
Hydrologic Position	Cross-gradient
Databases Listed	LUST, HIST CORTESE, CONTRA COSTA CO. SITE LIST, CERS
Comments	This site is listed as a closed LUST case. AEI reviewed information on GeoTracker and on file with the CCCDEH. In 1994, a 7,500 gallon diesel UST, a 1,500 gallon gasoline UST and a 400 gallon gasoline UST were removed from the property. Seven soil samples were collected from the tank pits and nine soil samples were collected from stockpiled, excavated soils. Maximum concentrations detected in the pit soil samples were 20 ppm TPHd and 0.67 ppm TPHg. BTEX was not detected. Maximum concentrations detected from stockpile soil samples were 350 ppm TPHd, 5.4 ppm TPHg, 0.062 ppm benzene and 0.0033 ppm toluene. Based on this data, additional excavation was conducted in the 400 gallon gasoline tank pit. A verification soil sample was collected from the floor of the excavation and showed levels of 3.4 ppm TPHd, 0.004 ppm toluene, 0.004 ppm ethylbenzene, and 0.0318 ppm xylenes. On January 19, 2000 the CCCDEH issued the case closure letter for the site with no further action required. Based on the direction of groundwater flow, the regulatory status, and the time elapsed since closure was achieved, this listing is not expected to represent a significant environmental concern at this time.

5.2 VAPOR MIGRATION

AEI reviewed reasonably ascertainable information for the subject and nearby properties, including a regulatory database, files for nearby release sites, and/or historical documentation, to determine if potential vapor-phase migration concerns may be present which could impact the subject property.

Based on a review of available resources as documented in this report, AEI did not identify significant on-site concerns and/or regulated listings from nearby sites which suggest that a vapor-phase migration concern currently exists at the subject property.

6.0 INTERVIEWS AND USER PROVIDED INFORMATION

6.1 INTERVIEWS

Pursuant to ASTM E1527-13, the following interviews were performed during this assessment in order to obtain information indicating RECs in connection with the subject property.

6.1.1 OWNER AND KEY SITE MANAGER

Relation to Property	Name	Date Interviewed	Method of Contact	Year First Associated w/ Property	Notes
Owner/Owner Representative	Wilbur 2600, represented by Mr. Al Snell	December 27, 2019	Through Mr. Bob Hammons, Potential Purchaser	Unknown	Interviewed; see Interview Summary table below
Key Site Manager	Mr. Al Snell	December 27, 2019	Through Mr. Bob Hammons, Potential Purchaser	Unknown	Representative for the Owner is acting Key Site Manager; see Interview Summary table below

Interview Summary

Question	Owner (Representative) Response/ Comment	Key Site Manager Response/ Comment
Do you have any knowledge of USTs, clarifiers or oil/water separators, sumps, or other subsurface features?	Yes; septic tank	Yes; septic tank
Do you have any knowledge of previous environmental investigations conducted on site?	Yes; refer to Section 6.3.	Yes; refer to Section 6.3.
Do you have any knowledge of current or past industrial operations and/or other operations which would involve the use of hazardous substances and/or petroleum products?	Yes; "DTSC records provided in Phase I ESA"	Yes; "DTSC records provided in Phase I ESA"
Are you aware of any known plans for site redevelopment or change in site use?	No	No
Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	No	No
Are you aware of any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	Yes; "DTSC records provided in Phase I ESA"	Yes; "DTSC records provided in Phase I ESA"
Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	No	No
Are you aware of any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality?	No	No

Question	Owner (Representative) Response/ Comment	Key Site Manager Response/ Comment
Additional information provided:	N/A	N/A

6.1.2 Past Owners, Operators, and Occupants

AEI attempted to obtain contact information for past owners, operators and occupants of the subject property in order to interview them regarding the potential for contamination at the property. AEI requested this contact information of Wilbur 2600, reviewed agency records, and performed online research to obtain this information. Contact information was not found. As such, interviews with past owners, operators and occupants were not reasonably ascertainable.

6.1.3 Interview with Others

Information obtained during interviews with local government officials is incorporated into the appropriate segments of this report.

6.2 User Provided Information

User provided information is intended to help identify the possibility of RECs in connection with the subject property. According to ASTM E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), certain items should be researched by the prospective landowner or grantee, and the results of such inquiries may be provided to the Environmental Professional. The responsibility for qualifying for LLPs by conducting the inquiries ultimately rests with the User, and providing the information to the Environmental Professional would be prudent if such information is available.

While MUFG Union Bank, N.A. is the User of the report, the borrower representative, Mr. Bob Hammons, Property Manager of Candy Properties, provided user information. The following table represents information contained therein.

Question	Response/ Comment
1. Environmental liens that are filed or recorded against the property (40 CFR 312.25) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	No
2. Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi)). Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	No

Question	Response/ Comment
3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	No
4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	Yes
5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example: (a) Do you know the past uses of the property? (b) Do you know of specific chemicals that are present or once were present at the property? (c) Do you know of spills or other chemical releases that have taken place at the property? (d) Do you know of any environmental cleanups that have taken place at the property?	No
6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?	No

6.3 PREVIOUS REPORTS AND OTHER PROVIDED DOCUMENTATION

Documentation was provided to AEI by Mr. Bob Hammons during this assessment. A summary of this information follows:

Phase I Environmental Site Assessment (Industrial Lot with Railroad Siding, Antioch, CA), prepared by Blasland, Bouck & Lee, Inc. (BBL) (September 2002)

At the time of the report, the subject property was developed with an abandoned water well and two water ASTs formerly used to supply water to the East Mill operations, railroad tracks leading to the former East Mill facility, and paved areas used by a former credit union and experimental sludge composting operation. The Contra Costa County water metering station is located on the northeastern corner of the subject property, which also supplied water to the East Mill. The subject property did not have any connections to the sewer or city water service. Other pertinent information has been incorporated into sections of this report.

BBL identified the following RECs:

- former fuel AST
- stained/impacted and excavated soils from around the former AST that was removed in the late 1990s
- former sludge composting operation
- stained soils observed along the railroad siding
- stained soil observed near a debris/trash pile
- a possible storm drain observed to be located near the former sludge composting operations

"Although not RECs per se," BBL also noted observations regarding various trash and debris abandoned on the property, as well as the possible use of ACMs on the underground fuel line and AST.

Phase II Subsurface Investigation (Former AST and Railroad Siding, Antioch, CA), prepared by Blasland, Bouck & Lee, Inc. (BBL) (July 2003)

BBL conducted a PHII ESA to evaluate the RECs identified in the 2002 PHI ESA, the results of which are further discussed in Section 4.6.

Phase II Subsurface Investigation (2600 Wilbur Avenue, Antioch, California 94040), prepared by GeoSolve, Inc. (December 12, 2019)

In November 2019, GeoSolve drilled and sampled eight soil borings to 30 feet bgs, including groundwater, and eight shallow borings to 5 feet bgs to evaluate soil-gas. The soil gas samples were all non-detect for TCE, PCE and other VOCs. PCBs were not detected in any shallow soil sample analyzed and organochlorine pesticides were mostly not detected in the shallow soil samples collected at 1 foot bgs, with the exception of DDE, which was detected at 0.013 mg/kg and 0.0044 mg/kg in two samples, which were below the ESLs for commercial development. Arsenic, lead and the other CAM 17 metals were detected within background concentrations in the shallow soil and subsurface soil samples. No elevated concentrations of VOCs were detected in soil-gas, subsurface soil and/or groundwater beneath the site. Metals in groundwater were mostly detected at background concentrations, with the exception of molybdenum, which was detected at 120 ug/L and 200 ug/L, which was slightly over the MCL for drinking water. GeoSolve noted that "these slightly elevated concentrations are most likely from weather granite within the dune sand beneath the site". Phenol was the most detected SVOC in the subsurface soil and groundwater beneath the site and is most likely from the former oil UST wrapping and/or contents. These SVOCs detected in soil were below the ESLs for commercial development. All SVOCs, with the exception of Benzo(a)anthracene, a PAH, were detected below the MCLs for drinking water. GeoSolve noted that "groundwater is not potable beneath the site and will not be a risk to surface operations". Based on this data, GeoSolve recommended no further action for the subject property.

Preliminary Endangerment Assessment for the Industrial Lot with Railroad Siding, prepared by Blasland, Bouck & Lee, Inc. (February 2006)

Blasland, Bouck & Lee, Inc. (BBL) prepared and submited this Preliminary Endangerment Assessment (PEA) to the California Department of Toxic Substances Control (DTSC) in accordance with the terms of the Voluntary Environmental Oversight Agreement (Voluntary Agreement) entered into by and between Gaylord and DTSC on December 30, 2003. This report provided a summary of the previous investigations and the results of a risk evaluation conducted to address potential human health and ecological risks associated with the site. Environmental concerns pertaining to the DTSC release case at the subject property are further discussed in Section 4.6.

Phase I Environmental Site Assessment (Antioch Annex Area 2B, Antioch, California), prepared by Baseline Environmental Consulting (July 10, 2012)

At the time, the site was owned by Contra Costa County and consisted of an irregularly-shaped mixed-use area up to approximately 0.7 miles in length. Site uses included residences, commercial properties, and a graveyard. The City of Antioch was proposing to annex several areas including the Site, and requested this Phase I ESA to support future utility infrastructure development plans for Annex Area 2B.

The subject property was identified adjacent to or upgradient of the Site by EDR on databases associated with hazardous materials use and/or release. The following was noted in regards to the subject property:

"Property 10 is located adjacent to the northeast corner of the Site, north of the railroad tracks. This property was previously used for paper manufacturing. A Voluntary Cleanup Agreement was signed in 2003 with Gaylord Container Corporation, d/b/a Inland Paperboard and Packaging, Antioch Mill. A public Participation Plan was approved for the nine Gaylord Mill and Non-Mill properties, including this industrial lot, in October 2004. An initial soil investigation was conducted in July 2003, and a supplemental soil and groundwater investigation was conducted in August 2004. A PEA was completed in February 2005 under the oversight of the DTSC. The PEA did not identify any unacceptable risks to human health and the environment. In accordance with the Site Designation Requirements, the site was certified, and no further action was required as of March 2006."

Four RECs were identified for the Annex Area 2B: 1) the Holy Cross Cemetery on the Site; 2) the New Holy Cross
Cemetery offsite and south of the Holy Cross Cemetery at 2200 East 18th Street; 3) the Oak View Memorial Park south of the Site at 2500 East 18th Street, and 4) the presence of power lines crossing the Site and power line towers on the Site.

Copies of the reports are included in the appendices.

Other reports pertaining to the DTSC release case at the subject property were provided and are further discussed in Section 4.6.

6.4 ENVIRONMENTAL LIEN SEARCH

In accordance with our approved scope of services, an environmental lien search was not performed as part of this assessment.

7.0 SITE RECONNAISSANCE

Site Reconnaissance Date	December 27, 2019
AEI Site Assessor(s)	Megan Salcido
Property Escort(s)/ Relationship(s) to Property	Mr. Bob Hammons, Potential Purchaser
Units/Areas Observed	Interior portions of the building as well as exterior areas
Area(s) not accessed and reason(s)	Refer to Section 1.5 for discussion of limiting condition(s).
Other Physical Constraints	Refer to Section 1.5 for discussion of limiting condition(s).

Reconnaissance Findings Summary

Feature	Observed on Subject Property (see Section 7.1)	Observed on Adjacent Property (see Section 7.2)
Regulated Hazardous Substances/Wastes and/or Petroleum Products in Connection with Property Use	✔	
Aboveground/Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)		
Hazardous Substance and Petroleum Product Containers Not in Connection with Property Use		
Unidentified Substance Containers		
Electrical or Mechanical Equipment Likely to Contain Fluids		✔
Interior Stains or Corrosion		
Strong, Pungent, or Noxious Odors		
Pools of Liquid		
Drains, Sumps, and Clarifiers	✔	
Pits, Ponds, and Lagoons		
Stained Soil or Pavement	✔	
Stressed Vegetation		
Solid Waste Disposal or Evidence of Fill Materials		
Waste Water Discharges		
Wells	✔	
Septic Systems	✔	
Biomedical Wastes		
Other	✔	✔

7.1 SUBJECT PROPERTY RECONNAISSANCE FINDINGS

During the site reconnaissance, AEI observed the items listed in the above Reconnaissance Findings Summary table, which are further discussed below.

7.1.1 Regulated Hazardous Substances/Wastes and/or Petroleum Products in Connection with Property Use

Substance/Waste (size/quantity)	Location	Operations Associated with Material	Disposal Method/ Frequency	Secondary Containment	Staining/ Spills
Waste oil, waste oil filters, waste antifreeze, lubricants, gear oil (approximately 30 containers ranging in size from 5 to 55 gallons)	Storage container	Truck maintenance	Unknown	No	Minor staining within the container, no staining observed outside of the container

Some evidence of staining associated with leakage from the containers was observed within the container, but no staining was observed outside of the container. According to the tenant, Favalora Trucking, they are vacating the space in the near future. AEI recommends that these substances be properly disposed of.

7.1.2 Drains, Sumps, and Clarifiers

One storm drain was observed in the parking area of the subject property. AEI did not observe evidence of hazardous substances or petroleum products in the vicinity of the drain. Based on the use of the drain solely for storm water runoff, the presence of the drain is not expected to represent a significant environmental concern.

7.1.3 Stained Soil and Pavement

A small amount of staining was observed in one of the tenant's storage yards on the southeastern corner of the subject property. The staining was located on gravel and measured approximately one foot in diameter. AEI was unable to confirm the source of the staining. Based on the size of the staining, it is not expected to represent a significant environmental concern.

7.1.4 Wells

The subject property obtains potable water from a private water well located on the northwestern corner of the subject property. The well was installed in 2008. The depth of the boring was 380 feet and the depth of the completed well was 106 feet. The 6 inch diameter well was constructed with a cement sanitary seal of the annular space to a depth of 80 feet. The seal is designed to prevent contaminant migration down the well to deeper water bearing zones. Mr. Bob Hammons provided AEI with the results of the most recent water quality test conducted in December 2019, in which concentrations of Total Coliform Bacteria and E. coli were below reporting limits, and Nitrate detected at 7.7 mg/L which is below the MCL of 10 mg/L. Noteworthy is that Mr. Hammons stated that none of the employees actually consumed water produced from the well. Based on the nature of use of the well, the presence of the well is not expected to represent a significant environmental concern.

7.1.5 SEPTIC SYSTEMS

The subject property is equipped with a septic tank and leach field pipes. The septic system is used only for a restroom toilet and sink. There are no floor drains in the subject property building or garage; nor are there any shop use sinks. Based on the use of the septic system solely for domestic waste, the presence of the septic system is not expected to represent a significant environmental concern.

7.1.6 OTHER

Railroad tracks run through the middle of the subject property. Railroad tracks and spurs represent environmental concerns due to the historical application of oils containing PCBs, herbicides, and arsenic for pest and weed control, as well as the potential presence of creosote on the rail ties, and the historical common practice of using coal cinders for track fill material. However, it is likely that any potential herbicide concentrations have degraded over time, as the railroad tracks have been abandoned. Based on the recent sampling data (refer to Section 6.4.), the railroad tracks are not expected to represent a significant environmental concern.

7.2 ADJACENT PROPERTY RECONNAISSANCE FINDINGS

During the site reconnaissance, AEI observed the items listed in the above Reconnaissance Findings Summary table, which are further discussed below.

7.2.1 ELECTRICAL OR MECHANICAL EQUIPMENT LIKELY TO CONTAIN FLUIDS

Toxic PCBs were commonly used historically in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors. According to United States EPA regulation 40 CFR, Part 761, there are three categories for classifying such equipment: <50 ppm of PCBs is considered "Non-PCB"; between 50 and 500 ppm is considered "PCB-Contaminated"; and >500 ppm is considered "PCB-Containing." Pursuant to 15 U.S.C. 2605(e)(2)(A), the manufacture, process, or distribution in commerce or use of any polychlorinated biphenyl in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

Transformers

The management of potential PCB-containing transformers is the responsibility of the local utility or the transformer owner. Actual material samples need to be collected to determine if transformers are PCB-containing.

Multiple pole-mounted transformers were observed on the adjacent sites during the site reconnaissance. No spills, staining, or leaks were observed on or around the transformers. Based on the good condition of the equipment, the transformers are not expected to represent a significant environmental concern.

7.2.2 OTHER

Railroad tracks are located to the south. Railroad tracks and spurs represent environmental concerns due to the historical application of oils containing PCBs, herbicides, and arsenic for pest and weed control, as well as the potential presence of creosote on the rail ties, and the historical common practice of using coal cinders for track fill material. The railroad tracks located adjacent

to the south of the subject property are surrounded by gravel. Based on the presence of gravel, the use of oils, arsenic, and herbicides associated with weed or pest control is expected to be minimal, and therefore does not represent a significant environmental concern.

8.0 NON-ASTM SERVICES

8.1 ASBESTOS-CONTAINING BUILDING MATERIALS

Asbestos is the name for a group of naturally occurring silicate minerals that can be separated into fibers. The fibers are strong, durable, and resistant to heat and fire. They are also long, thin and flexible, so they can even be woven into cloth. Because of these qualities, asbestos has been used in thousands of consumer, industrial, maritime, automotive, scientific and building products. During the 20th century, some 30 million tons of asbestos have been used in industrial sites, homes, schools, shipyards and commercial buildings in the United States. Commercial use of ACM began in the early 1900s and peaked in the period between 1940 and into the 1970s. Common ACMs include pipe-covering, insulating cement, insulating block, refractory and boiler insulation materials, transite board, fireproofing spray, joint compound, vinyl floor tile, ceiling tile, mastics, roofing products, and duct insulation for HVAC applications. Inhalation of asbestos fibers can result in deleterious health effects.

The potential for ACM was evaluated based the United States EPA Guidance Document: Managing Asbestos in Place - A Building Owner's Guide to Operations and Maintenance Programs for Asbestos-Containing Materials (the Green Book). In 1973 the NESHAPS banned the use of most spray-applied surfacing ACM, specifically asbestos containing spray-on fireproofing and insulation. Subsequent revisions to this regulation in 1975 and 1978 effectively eliminated the use of friable pre-molded pipe, boiler, turbine, and duct insulation; and the spray application of friable asbestos-containing materials for all uses in buildings. In 1989 the EPA issued regulations to ban some asbestos-containing products and phase out most others over a multi-year period. The "Ban and Phase-Down" rule was challenged in court and the regulation remanded to the agency. As a result, any asbestos-containing products then "in commerce" would not be banned. Those not in commerce would be banned. Those materials "banned" could not be sold. It did not affect such materials already installed, or in use. Most US firms voluntarily ceased production of asbestos containing building materials not covered by the aforementioned Federal bans by the mid-1980s. In 1994, the OSHA determined that employers and building owners are required to treat installed thermal system installation and sprayed on and troweled-on surfacing materials, as well as vinyl or asphalt flooring material, as ACM in buildings constructed no later than 1980 until tested by laboratory analysis to prove otherwise.

The information below is for general informational purposes only and does not constitute an asbestos survey. In addition, the information is not intended to comply with federal, state or local regulations in regards to ACM.

Although the cutoff date of 1981 referenced in the OSHA regulations is generally accepted for estimating the likelihood that certain building materials may contain asbestos, building materials manufactured after 1981, while not expected to, may still contain asbestos. Typical materials that are known to still be manufactured with asbestos include but are not limited to: asphalt roofing products and building caulking materials and adhesives. A limited list of typical suspect ACMs is included in the following table:

Material Type	Location
Plaster (acoustical and smooth)	Walls and ceilings
Ceiling tile	Ceiling systems
Thermal systems insulations, packings, and gaskets	Heating systems, cooling systems, domestic and heating and cooling piping, ductwork, and other equipment
Floor tile and associate mastics, flooring felts, and papers (under hardwood/other)	Floors
Vinyl sheet flooring and adhesives	Floors
Cove base and associated mastics	Walls
Ceramic tile adhesives and grouts	Walls, floors, and ceilings
All adhesives	Mirrors, wall coverings, construction, etc.
Grout and caulking	Windows and doors
Gypsum board, tape, and joint compound	Wall and ceiling systems
Insulation materials	Walls, ceilings, and attic spaces
Roofing materials (felts, rolled, shingle, flashings, adhesives, tar, and insulations)	Roof and parapet wall systems
Brick and block, mortars	Walls

The observed suspect ACMs were in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. In the event that building renovation or demolition activities are planned, a thorough asbestos survey is required in accordance with the EPA NESHAP 40 CFR Part 61 prior to demolition or renovation activities that may disturb ACMs.

8.2 Lead-Based Paint

LBP is defined as any paint, varnish, stain, or other applied coating that has ≥1 mg/cm² (5,000 µg/g or 5,000 ppm) or more of lead by federal guidelines; state and local definitions may differ from the federal definitions in amounts ranging from 0.5 mg/cm² to 2.0 mg/cm². Section 1017 of the Housing and Urban Development (HUD) Guidelines, Residential Lead-Based Paint Hazard Reduction Act of 1992, otherwise known as "Title X," defines a LBP hazard as "any condition that causes exposure to lead that would result in adverse human health effects" resulting from lead-contaminated dust, bare, lead-contaminated soil, and/or lead-contaminated paint that is deteriorated or present on accessible, friction, or impact surfaces. Therefore, under Title X, intact LBP on most walls and ceilings would not be considered a "hazard," although the paint should be maintained and its condition monitored to ensure that it does not deteriorate and become a hazard. Additionally, Section 1018 of this law directed HUD and EPA to require the disclosure of known information on LBP and LBP hazards before the sale or lease of most housing built before 1978. Most private housing, public housing, or federally owned or subsidized housing is affected by this rule.

Under OSHA, LCP is defined as any paint with any detectable amount of lead present in it. Therefore, all LBP is considered LCP. Conversely, LCP may not meet the criteria to be considered LBP in accordance with HUD guidelines or some states' definition of LBP.

It is important to note that LCP may create a lead hazard when being removed. The condition of these materials must be monitored when they are being disturbed. In the event LCP is subject to abrading, sanding, torching, and/or cutting during demolition or renovation activities, there may be regulatory issues that must be addressed.

The information below is for general informational purposes only and does not constitute a lead hazard evaluation. In addition, the information is not intended to comply with federal, state, or local regulations in regards to LBP.

In buildings constructed after 1978, it is unlikely that LBP is present; however, some paints utilized after 1978 will be LCP under OSHA. Structures built prior to 1978 and especially prior to the 1960s should be expected to contain LBP.

Due to the age of the subject property building, it is unlikely that LBP is present; however, LCP may be present. Based on the good condition of the observed painted surfaces, potential LCP is not considered a significant environmental concern at this time.

8.3 RADON

Radon is a naturally-occurring, odorless, and invisible gas. Natural radon levels vary and are closely related to geologic formations. Radon may enter buildings through basement sumps or other openings.

Radon sampling was not requested as part of this assessment. According to the California Department of Health Services Radon Database, 16 tests were conducted for radon levels in the subject property zip code (94509) in 2016. One of the tests exceeded the action level of 4.0 pCi/L set forth by the US EPA. While a relatively small percentage of the test results exceeded the EPA threshold, the majority of the locations sampled were below 4.0 pCi/L. Consequently, radon does not appear to be a widespread concern; however, radon sampling would be required to determine site-specific radon levels.

8.4 MOLD

Molds are simple microscopic organisms which can often be seen in the form of discoloration, frequently green, gray, white, brown, or black. When excessive moisture or water accumulates indoors, mold growth may occur, particularly if the moisture problem remains undiscovered or unaddressed. As such, interior areas of buildings characterized by poor ventilation and high humidity are the most common locations of mold growth. Building materials, including drywall, wallpaper, baseboards, wood framing, insulation, and carpeting, often play host to such growth. Mold spores primarily cause health problems through the inhalation of spores or the toxins they emit when they are present in large numbers. This can occur when there is active mold growth within places where people live or work.

Mold, if present, may or may not visually manifest itself. Neither the individual completing this inspection, nor AEI has any liability for the identification of mold-related concerns except as defined in applicable industry standards. In short, this Phase I ESA should not be construed as a mold survey or inspection.

This activity was not designed to discover all areas which may be affected by mold growth on the subject property. Rather, it is intended to give the client an indication if significant (based on observed areas) mold growth is present at the subject property. Potential areas of mold growth, such as in pipe chases, HVAC systems, and behind enclosed walls and ceilings, were not observed as part of this limited assessment.

AEI observed interior areas of the subject property building to identify the potential presence of mold. AEI did not note obvious visual or olfactory indications of the presence of mold, nor did AEI observe obvious indications of significant water damage. As such, no bulk sampling of suspect surfaces was conducted as part of this assessment and no additional action with respect to suspect mold appears to be warranted at this time.

8.5 Drinking Water Sources and Lead in Drinking Water

The City of Antioch supplies potable water to the subject property. The most recent water quality report (2018) states that the 90th percentile value for lead levels in samples obtained from the area's water supply was non-detect. Typical sources of lead in drinking water include corrosion of household plumbing systems. Overall, lead levels are well within standards established by the United States EPA.

9.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:



Megan Salcido
Project Manager

Reviewed By:



D. Howe Gates
Senior Author

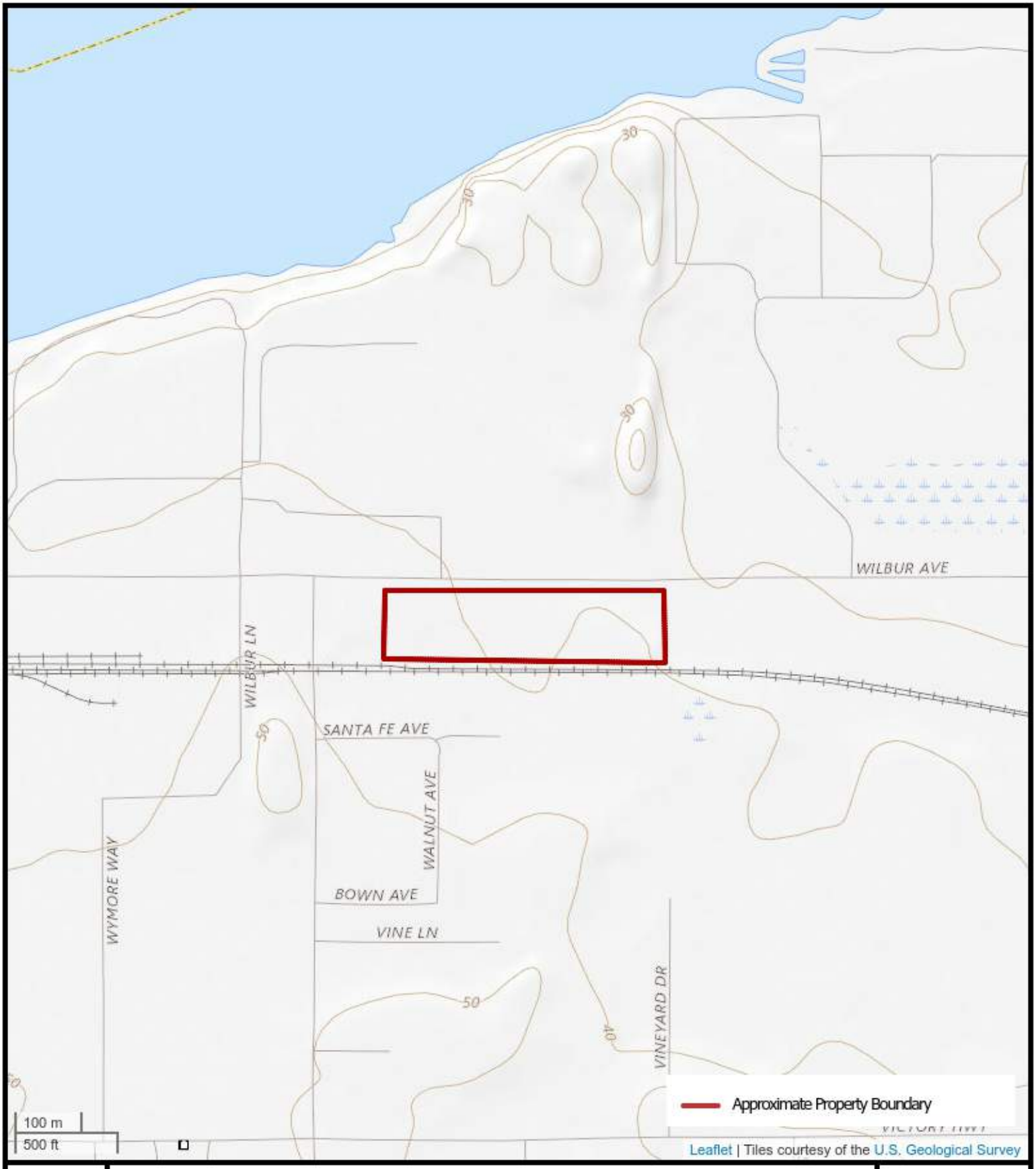
10.0 REFERENCES

Item	Date(s)	Source
Soils Information	Accessed January 2020	USDA Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
Topographic Map	2015	USGS, Antioch North
Depth to Groundwater Information	January 2020	Regional Water Quality Control Board (RWQCB) GeoTracker website http://geotracker.waterboards.ca.gov/
Aerial Photographs	1937-2016 (non-inclusive)	EDR
Sanborn Map Report/Search	December 12, 2019	EDR
City Directories	1975-2014 (non-inclusive)	EDR
Historical Topographic Maps	1908-2018 (non-inclusive)	NETR Online (www.historicaerials.com)
Environmental Health Department	December 16, 2019	Contra Costa County Department of Environmental Health
Fire Department	December 16, 2019	Contra Costa County Fire Protection District
Building Department	December 16, 2019	Antioch Building Department
Planning Department	December 16, 2019	Antioch Planning Department
Assessor's Information and Parcel Map	December 16, 2019	Contra Costa County Assessor's Office
Other Agencies Searched	December 2019, January 2020	SWRCB GeoTracker, DTSC HWTS, BAAQMD, and DTSC EnviroStor databases
Oil and Gas Wells	January 2, 2020	State of California Department of Conservation, Division of Oil, Gas & Geothermal Resources
Oil and Gas Pipelines	January 2, 2020	NPMS Public Map Viewer https://www.npms.phmsa.dot.gov/PublicViewer/composite.jsf
Regulatory Database Report	December 12, 2019	EDR
Interview with Owner	December 27, 2019	Wilbur 2600
Interview with Key Site Manager	December 27, 2019	Mr. Al Snell

Item	Date(s)	Source
Previous Report(s)	September 2002 July 2003 December 12, 2019	*Phase I Environmental Site Assessment (Industrial Lot with Railroad Siding, Antioch, CA)*, prepared by Blasland, Bouck & Lee, Inc. (BBL) *Phase II Subsurface Investigation (Former AST and Railroad Siding, Antioch, CA)*, prepared by Blasland, Bouck & Lee, Inc. (BBL) *Phase II Subsurface Investigation (2600 Wilbur Avenue, Antioch, California 94040)*, prepared by GeoSolve, Inc.
Radon Zone Information	2016	Department of Health Services (DHS) California Indoor Radon Levels
Water Quality Report	2018	City of Antioch

APPENDIX A

FIGURES



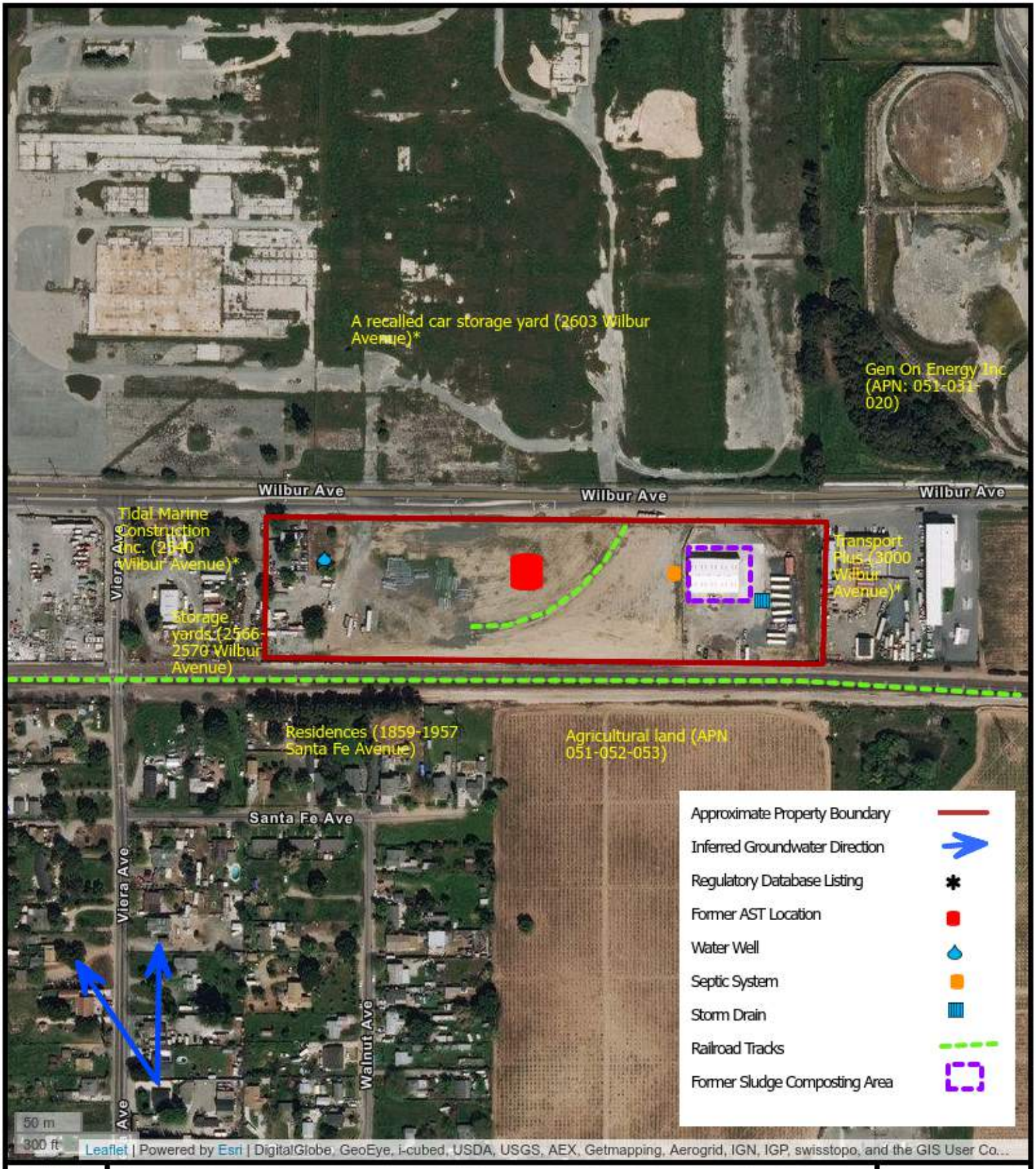
N

FIGURE 1: TOPOGRAPHIC MAP

2600 Wilbur Avenue, Antioch, California 94509

AEI Project Number: 416523

AEI Consultants



N

FIGURE 2: SITE MAP

2580, 2590, 2600 Wilbur Avenue, Antioch, California 94509

AEI Project Number: 416523

AEI Consultants

APPENDIX B

PROPERTY PHOTOGRAPHS



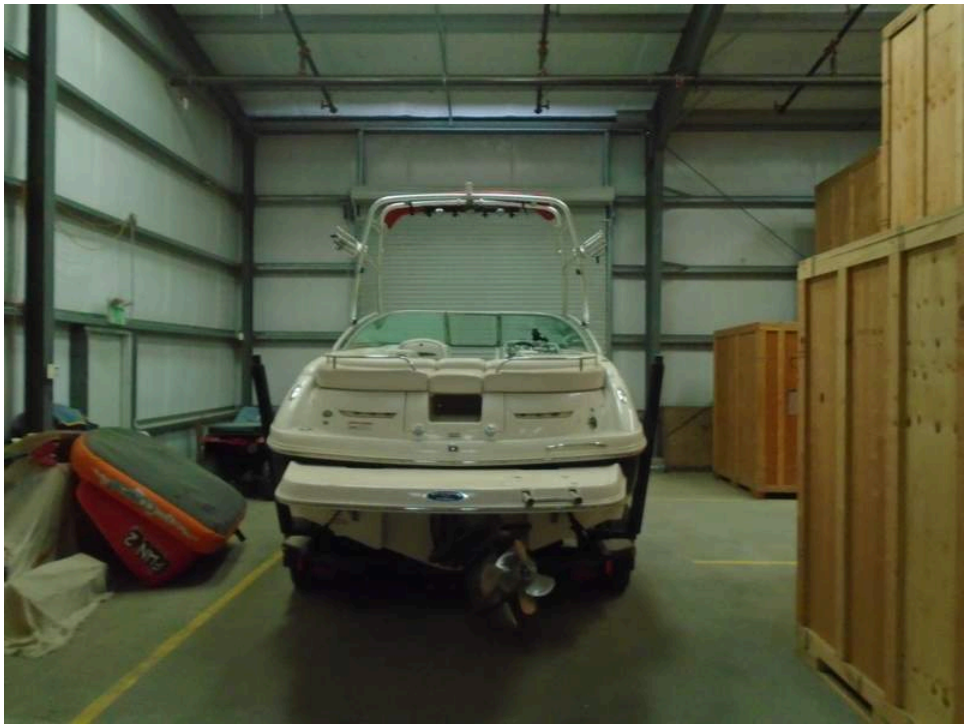
1. Subject property building



2. Interior of the building



3. Interior of the building



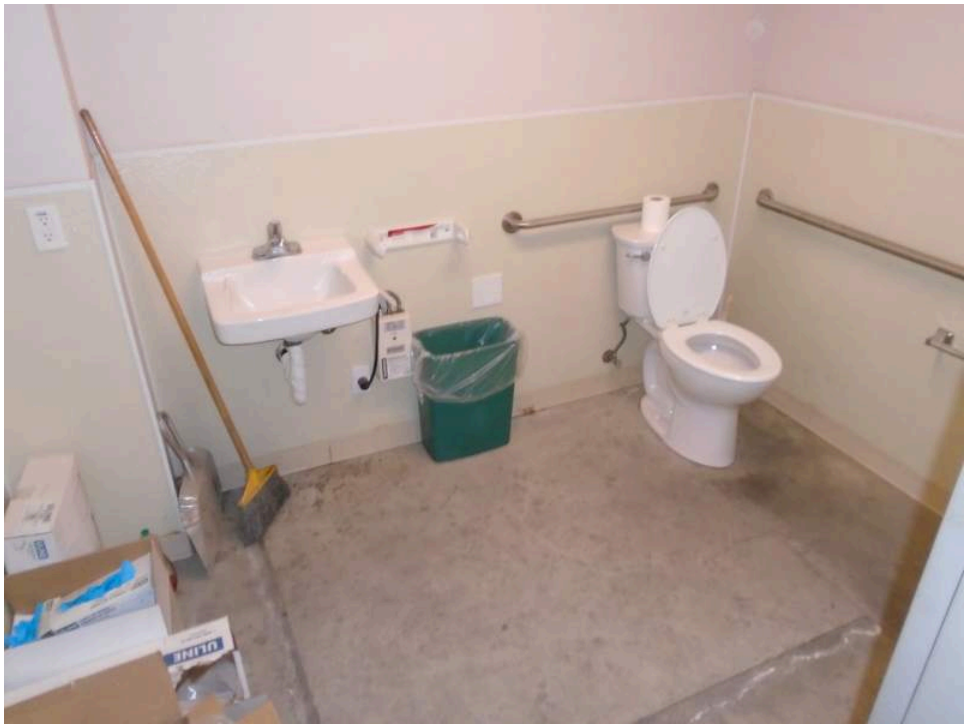
4. Interior of the building



5. Interior of the building



6. Interior of the building



7. Interior of the building



8. Paved parking lot



9. Dirt lot



10. Storage yard



11. Storage yard



12. Empty containers



13. Trash debris



14. Dirt lot



15. Dirt lot



16. Storm drain



17. Storm drain



18. Storage yard



19. Septic tank



20. Dirt lot (northern portion)



21. Dirt lot (central location



22. Abandoned railroad tracks



23. Dirt lot (northern portion)



24. Storage yard



25. Storage yard



26. Hazardous material storage container



27. Hazardous material storage container



28. Hazardous material storage container



29. Hazardous material storage container



30. Hazardous material storage container



31. Storage yard



32. Storage yard



33. Abandoned railroad



34. Water metering station



35. Minor staining



36. Northern adjacent property



37. Northeastern adjacent property



38. Eastern adjacent property



39. Southern adjacent property



40. Adjacent transformer



41. Western adjacent property

APPENDIX C

REGULATORY DATABASE

416523
2600 Wilbur Avenue
Antioch, CA 94509

Inquiry Number: 5903838.2s
December 12, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2600 WILBUR AVENUE
ANTIOCH, CA 94509

COORDINATES

Latitude (North):	38.0116520 - 38˚ 0' 41.94''
Longitude (West):	121.7691070 - 121˚ 46' 8.78''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	608056.8
UTM Y (Meters):	4207617.0
Elevation:	29 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5619678 ANTIOCH NORTH, CA
Version Date:	2012
Northeast Map:	5629060 JERSEY ISLAND, CA
Version Date:	2012
Southeast Map:	5640376 BRENTWOOD, CA
Version Date:	2012
Southwest Map:	5640044 ANTIOCH SOUTH, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
2600 WILBUR AVENUE
ANTIOCH, CA 94509

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	PG&E	2600 WILBUR AVE	HAZNET		TP
A2	JT TOURS	2600 WILBUR AVE	CONTRA COSTA CO. SITE LIST		TP
A3	PG&E	2600 WILBUR AVE	HAZNET		TP
A4	INDUSTRIAL LOT WITH	2600 WILBUR AVENUE	ENVIROSTOR, VCP		TP
A5	INDUSTRIAL LOT WITH	2600 WILBUR AVENUE	FINDS		TP
A6	JT TOURS	2600 WILBUR	CERS HAZ WASTE, CERS		TP
7	KIEWIT POWER CONSTRU	2925 WILBUR AVE	CHMIRS, CONTRA COSTA CO. SITE LIST	Lower	76, 0.014, NE
B8	AIKEN UNDERGROUND IN	3000 WILBUR AVE B	CONTRA COSTA CO. SITE LIST	Lower	121, 0.023, ENE
B9	AIKEN UNDERGROUND IN	3000 WILBUR AVE STE	RCRA NonGen / NLR	Lower	121, 0.023, ENE
C10	GAYLORD CONTAINER CO	2603 WILBUR AVE	CPS-SLIC, CERS	Higher	126, 0.024, NW
C11	EAST MILL	2603 WILBUR AVENUE	ENVIROSTOR, VCP, HAZNET	Higher	126, 0.024, NW
B12	LOUISIANA-PACIFIC CO	E WILBUR AVE	RCRA-SQG	Lower	170, 0.032, ENE
13	ANTIOCH PAVING COMPA	2540 WILBUR	LUST, HIST CORTESE, CONTRA COSTA CO. SITE LIST,...	Higher	190, 0.036, West
B14	BAY COUNTIES PITCOCK	3050 WILBUR AVE	AST, CERS HAZ WASTE, CERS TANKS, EMI, HAZNET,...	Lower	315, 0.060, East
B15	ANTIOCH BULK PLANT -	3050 WILBUR AVE	RCRA NonGen / NLR	Lower	315, 0.060, East
D16	ADVANCED PIPELINE SE	2400 WILBUR AVE	CERS HAZ WASTE, HAZNET, CONTRA COSTA CO. SITE...	Higher	609, 0.115, West
D17	GENESIS MFG CO	2275 WILBUR LN	CONTRA COSTA CO. SITE LIST	Higher	681, 0.129, West
D18	ANTIOCH PAVING CO. Y	CRN WILBUR & VIERA A	SWEEPS UST, CA FID UST	Higher	708, 0.134, WNW
D19	STONCOR GROUP INC (A	2240 WILBUR LN	CONTRA COSTA CO. SITE LIST, CERS	Higher	721, 0.137, West
20	CONSTRUCTION ENGINEE	1671 VINEYARD DR	CONTRA COSTA CO. SITE LIST	Higher	1036, 0.196, SE
E21	MILITARY FAMILY HOUS	2300 WILBUR	HIST CORTESE, CONTRA COSTA CO. SITE LIST, CERS	Higher	1266, 0.240, West
E22	ANTIOCH PROFESSIONAL	2300 WILBUR AVE	CERS HAZ WASTE, CONTRA COSTA CO. SITE LIST, WDS,...	Higher	1266, 0.240, West
E23	ADVANCE DESIGN MFG L	2300 WILBUR AVE	RCRA NonGen / NLR	Higher	1266, 0.240, West
F24	JOSE AGUIAR REIS	RT1 BOX 447-B	RCRA NonGen / NLR	Higher	1318, 0.250, SSW
F25	LLOYD'S HOLIDAY HARB	RTE 1	LUST	Higher	1381, 0.262, SSW
F26	LAURITZEN YACHT HARB	RTE 1	LUST	Higher	1381, 0.262, SSW
F27	LAURITZEN YACHT HARB	RTE 1	LUST, HIST CORTESE, CERS	Higher	1381, 0.262, SSW
G28	WEST MILL	2301 WILBUR AVENUE	ENVIROSTOR, VCP, ENF, CONTRA COSTA CO. SITE LIST,...	Higher	1558, 0.295, West
G29	GAYLORD CONTAINER CO	2301 WILBUR AVENUE	SEMS-ARCHIVE, RCRA-SQG, PADS, FINDS	Higher	1558, 0.295, West
H30	PERFORMANCE ABATEMEN	3201 WILBUR AVE	SEMS-ARCHIVE, CORRACTS, US FIN ASSUR, 2020 COR...	Lower	1841, 0.349, East
H31	CONTRA COSTA POWER P	PO BOX 249	AST, WMUDS/SWAT, EMI, HWP, WDS	Lower	1841, 0.349, East
H32	CONTRA COSTA POWER P	3201 WILBUR AVENUE	RCRA-TSDF, RCRA-SQG, RAATS, WDS	Lower	1841, 0.349, East
H33	CONTRA COSTA GENERAT	3201 WILBUR AVENUE	ENVIROSTOR, CHMIRS, TSCA, ICIS, FINDS, ECHO, ENF,...	Lower	1841, 0.349, East
34	KEMWATER NORTH AMERI	2151 WILBUR AVE	CPS-SLIC, WMUDS/SWAT, CHMIRS, Cortese, ENF, CONTRA..	Lower	2122, 0.402, WNW
I35	INDUSTRIAL LOT WITH	WILBUR AVENUE	ENVIROSTOR, VCP	Higher	2302, 0.436, West
I36	SANTA YNEZ HIGH SCHO	2000 WILBUR	HIST CORTESE	Higher	2444, 0.463, West
37	VINEYARD TRACT	E. 18TH STREET	ENVIROSTOR, VCP	Higher	2695, 0.510, SE
38	ALMOND ORCHARD	2101 E. 18TH STREET	ENVIROSTOR, VCP	Higher	2733, 0.518, SW
39	GAYLORD TRACTS	1030 APOLLO COURT	ENVIROSTOR, VCP, DEED	Higher	2769, 0.524, WSW

MAPPED SITES SUMMARY

Target Property Address:
2600 WILBUR AVENUE
ANTIOCH, CA 94509

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	IMPERIAL WEST, ANTIO	1701 WILBUR AVENUE	Toxic Pits, EMI	Higher	2944, 0.558, West
41	PG&E, CONTRA COSTA P	1456 WILBUR AVENUE	Toxic Pits, EMI	Higher	4209, 0.797, West
42	WEST ISLAND	IN THE SAN JOAQUIN R	ENVIROSTOR, VCP	Lower	4590, 0.869, NNW
J43	E.I. DUPONT DE NEMOU	6000 BRIDGEHEAD RD	ENVIROSTOR, LUST, CPS-SLIC, VCP, SWEEPS UST, CA...	Lower	4631, 0.877, East
J44	CHEMOURS COMPANY FC	6000 BRIDGEHEAD RD	ENVIROSTOR, DEED	Lower	4631, 0.877, East
J45	CHEMOURS OAKLEY	6000 BRIDGEHEAD RD	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, US...	Lower	4631, 0.877, East
46	OAKLEY ROAD METERING	OAKLEY RD. & PHILLIP	ENVIROSTOR	Higher	5265, 0.997, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
PG&E 2600 WILBUR AVE ANTIOCH, CA 94509	HAZNET GEPAID: CAC002861040	N/A
JT TOURS 2600 WILBUR AVE ANTIOCH, CA 94509	CONTRA COSTA CO. SITE LIST Facility Id: FA0038936	N/A
PG&E 2600 WILBUR AVE ANTIOCH, CA 94509	HAZNET GEPAID: CAC002862341	N/A
INDUSTRIAL LOT WITH 2600 WILBUR AVENUE ANTIOCH, CA 94509	ENVIROSTOR Status: Certified Facility Id: 7990014 VCP Status: Certified Facility Id: 7990014	N/A
INDUSTRIAL LOT WITH 2600 WILBUR AVENUE ANTIOCH, CA 94509	FINDS Registry ID:: 110033615130	N/A
JT TOURS 2600 WILBUR ANTIOCH, CA 94509	CERS HAZ WASTE CERS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

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

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

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
US CDL	National Clandestine Laboratory Register
PFAS	PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

HIST UST	Hazardous Substance Storage Container Database

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

MLTS Material Licensing Tracking System
COAL ASH DOE Steam-Electric Plant Operation Data
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER PCB Transformer Registration Database
RADINFO Radiation Information Database
HIST FTTS FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS Incident and Accident Data
CONSENT Superfund (CERCLA) Consent Decrees
INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
ABANDONED MINES Abandoned Mines
UXO Unexploded Ordnance Sites
DOCKET HWC Hazardous Waste Compliance Docket Listing
ECHO Enforcement & Compliance History Information
FUELS PROGRAM EPA Fuels Program Registered Listing
CA BOND EXP. PLAN Bond Expenditure Plan
CUPA Listings CUPA Resources List
DRYCLEANERS Cleaner Facilities
EMI Emissions Inventory Data
ENF Enforcement Action Listing
Financial Assurance Financial Assurance Information Listing
ICE ICE
HWT Registered Hazardous Waste Transporter Database
MINES Mines Site Location Listing
MWMP Medical Waste Management Program Listing
NPDES NPDES Permits Listing
PEST LIC Pesticide Regulation Licenses Listing
PROC Certified Processors Database
Notify 65 Proposition 65 Records
UIC UIC Listing
UIC GEO UIC GEO (GEOTRACKER)
WASTEWATER PITS Oil Wastewater Pits Listing
WDS Waste Discharge System
WIP Well Investigation Program Case List
MILITARY PRIV SITES MILITARY PRIV SITES (GEOTRACKER)
PROJECT PROJECT (GEOTRACKER)
WDR Waste Discharge Requirements Listing
CIWQS California Integrated Water Quality System
NON-CASE INFO NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ Well Stimulation Project (GEOTRACKER)
MINES MRDS Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 10/25/2019 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GAYLORD CONTAINER CO Site ID: 0901170 EPA Id: CAD009148180	***2301 WILBUR AVENUE***	***W 1/4 - 1/2 (0.295 mi.)***	***G29***	***85***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PERFORMANCE ABATEMEN Site ID: 0902670	***3201 WILBUR AVE***	***E 1/4 - 1/2 (0.349 mi.)***	***H30***	***89***

EXECUTIVE SUMMARY

EPA Id: CAT080011489

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 06/24/2019 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PERFORMANCE ABATEMEN EPA ID:: CAT080011489	***3201 WILBUR AVE***	***E 1/4 - 1/2 (0.349 mi.)***	***H30***	***89***
CHEMOURS OAKLEY EPA ID:: CAD009151671	***6000 BRIDGEHEAD RD***	***E 1/2 - 1 (0.877 mi.)***	***J45***	***227***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 06/24/2019 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONTRA COSTA POWER P EPA ID:: CAT080011489	***3201 WILBUR AVENUE***	***E 1/4 - 1/2 (0.349 mi.)***	***H32***	***100***

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/24/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOUISIANA-PACIFIC CO	E WILBUR AVE	ENE 0 - 1/8 (0.032 mi.)	B12	23

EXECUTIVE SUMMARY

EPA ID:: CAD009151705

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/29/2019 has revealed that there are 11 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EAST MILL Status: Active Facility Id: 7260003	***2603 WILBUR AVENUE***	***NW 0 - 1/8 (0.024 mi.)***	***C11***	***21***
WEST MILL Status: Certified Facility Id: 7260002	***2301 WILBUR AVENUE***	***W 1/4 - 1/2 (0.295 mi.)***	***G28***	***64***
INDUSTRIAL LOT WITH Status: Certified Facility Id: 7990013	***WILBUR AVENUE***	***W 1/4 - 1/2 (0.436 mi.)***	***I35***	***164***
VINEYARD TRACT Status: Certified Facility Id: 7010013	***E. 18TH STREET***	***SE 1/2 - 1 (0.510 mi.)***	***37***	***166***
ALMOND ORCHARD Status: Certified Facility Id: 7010011	***2101 E. 18TH STREET***	***SW 1/2 - 1 (0.518 mi.)***	***38***	***168***
GAYLORD TRACTS Status: Certified / Operation & Maintenance Facility Id: 7790001	***1030 APOLLO COURT***	***WSW 1/2 - 1 (0.524 mi.)***	***39***	***170***
OAKLEY ROAD METERING Status: Refer: RWQCB Facility Id: 7490002	OAKLEY RD. & PHILLIP	SSE 1/2 - 1 (0.997 mi.)	46	287

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONTRA COSTA GENERAT Status: Refer: Other Agency Status: Active Facility Id: 71003523 Facility Id: 80001830	***3201 WILBUR AVENUE***	***E 1/4 - 1/2 (0.349 mi.)***	***H33***	***120***
WEST ISLAND	***IN THE SAN JOAQUIN R***	***NNW 1/2 - 1 (0.869 mi.)***	***42***	***175***

Status: Certified
Facility Id: 7990015

E.I. DUPONT DE NEMOU	***6000 BRIDGEHEAD RD***	***E 1/2 - 1 (0.877 mi.)***	***J43***	***177***
Status: Active Facility Id: 60002740				
CHEMOURS COMPANY FC	***6000 BRIDGEHEAD RD***	***E 1/2 - 1 (0.877 mi.)***	***J44***	***199***
Status: Active Facility Id: 80001610				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ANTIOCH PAVING COMPA	***2540 WILBUR***	***W 0 - 1/8 (0.036 mi.)***	***13***	***24***
Database: LUST REG 5, Date of Government Version: 07/01/2008 Database: LUST, Date of Government Version: 09/09/2019 Status: Completed - Case Closed Status: Case Closed Global Id: T0601300794				
LLOYD'S HOLIDAY HARB	RTE 1	SSW 1/4 - 1/2 (0.262 mi.)	F25	60
Database: LUST, Date of Government Version: 09/09/2019 Status: Completed - Case Closed Global Id: T0601300786				
LAURITZEN YACHT HARB	RTE 1	SSW 1/4 - 1/2 (0.262 mi.)	F26	61
Database: LUST, Date of Government Version: 09/09/2019 Status: Completed - Case Closed Global Id: T0601300777				
LAURITZEN YACHT HARB	***RTE 1***	***SSW 1/4 - 1/2 (0.262 mi.)***	***F27***	***63***
Database: LUST REG 5, Date of Government Version: 07/01/2008 Status: Case Closed				

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GAYLORD CONTAINER CO	***2603 WILBUR AVE***	***NW 0 - 1/8 (0.024 mi.)***	***C10***	***20***
Database: CPS-SLIC, Date of Government Version: 09/09/2019				

Facility Status: Open - Remediation
Global Id: SL0601314468

Lower Elevation	Address	Direction / Distance	Map ID	Page
KEMWATER NORTH AMERI	***2151 WILBUR AVE***	***WNW 1/4 - 1/2 (0.402 mi.)***	***34***	***154***

Database: SLIC REG 5, Date of Government Version: 04/01/2005
Database: CPS-SLIC, Date of Government Version: 09/09/2019
Facility Status: Open - Remediation
Global Id: SL205032990

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, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BAY COUNTIES PITCOCK	***3050 WILBUR AVE***	***E 0 - 1/8 (0.060 mi.)***	***B14***	***27***

Database: AST, Date of Government Version: 07/06/2016

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 07/29/2019 has revealed that there are 3 VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EAST MILL	***2603 WILBUR AVENUE***	***NW 0 - 1/8 (0.024 mi.)***	***C11***	***21***
Status: Active Facility Id: 7260003				
WEST MILL	***2301 WILBUR AVENUE***	***W 1/4 - 1/2 (0.295 mi.)***	***G28***	***64***
Status: Certified Facility Id: 7260002				
INDUSTRIAL LOT WITH	***WILBUR AVENUE***	***W 1/4 - 1/2 (0.436 mi.)***	***I35***	***164***
Status: Certified Facility Id: 7990013				

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there are 2 WMUDS/SWAT sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONTRA COSTA POWER P	***PO BOX 249***	***E 1/4 - 1/2 (0.349 mi.)***	***H31***	***96***
KEMWATER NORTH AMERI	***2151 WILBUR AVE***	***WNW 1/4 - 1/2 (0.402 mi.)***	***34***	***154***

Local Lists of Hazardous waste / Contaminated Sites

Toxic Pits: The Toxic Pits Cleanup Act Sites database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. The data come from the State Water Resources Control Board.

A review of the Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there are 2 Toxic Pits sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IMPERIAL WEST, ANTIO Closure Date: 01/16/92 Task #: 85001 Status: CLOSED	***1701 WILBUR AVENUE***	***W 1/2 - 1 (0.558 mi.)***	***40***	***172***
PG&E, CONTRA COSTA P Closure Date: 12/05/88 Task #: 85013 Status: CLOSED	***1456 WILBUR AVENUE***	***W 1/2 - 1 (0.797 mi.)***	***41***	***173***

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 08/14/2019 has revealed that there are 3 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADVANCED PIPELINE SE	***2400 WILBUR AVE***	***W 0 - 1/8 (0.115 mi.)***	***D16***	***40***
ANTIOCH PROFESSIONAL	***2300 WILBUR AVE***	***W 1/8 - 1/4 (0.240 mi.)***	***E22***	***52***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BAY COUNTIES PITCOCK	***3050 WILBUR AVE***	***E 0 - 1/8 (0.060 mi.)***	***B14***	***27***

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 is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ANTIOCH PAVING CO. Y	***CRN WILBUR & VIERA A***	***WNW 1/8 - 1/4 (0.134 mi.)***	***D18***	***45***
Status: A Tank Status: A Comp Number: 38072				

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ANTIOCH PAVING CO. Y	***CRN WILBUR & VIERA A***	***WNW 1/8 - 1/4 (0.134 mi.)***	***D18***	***45***
Facility Id: 07001377 Status: A				

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 08/14/2019 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BAY COUNTIES PITCOCK	***3050 WILBUR AVE***	***E 0 - 1/8 (0.060 mi.)***	***B14***	***27***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/24/2019 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADVANCE DESIGN MFG L	2300 WILBUR AVE	W 1/8 - 1/4 (0.240 mi.)	E23	57

EPA ID:: CAL000433315				
JOSE AGUIAR REIS EPA ID:: CAD981982671	RT1 BOX 447-B	SSW 1/8 - 1/4 (0.250 mi.)	F24	59

Lower Elevation	Address	Direction / Distance	Map ID	Page
AIKEN UNDERGROUND IN EPA ID:: CAL000322183	3000 WILBUR AVE STE	ENE 0 - 1/8 (0.023 mi.)	B9	19
ANTIOCH BULK PLANT - EPA ID:: CAL000367962	3050 WILBUR AVE	E 0 - 1/8 (0.060 mi.)	B15	39

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 (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 09/23/2019 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KEMWATER NORTH AMERI	***2151 WILBUR AVE***	***WNW 1/4 - 1/2 (0.402 mi.)***	***34***	***154***

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

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 4 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ANTIOCH PAVING COMPA Reg Id: 070075	***2540 WILBUR***	***W 0 - 1/8 (0.036 mi.)***	***13***	***24***
MILITARY FAMILY HOUS Reg Id: 3009	***2300 WILBUR***	***W 1/8 - 1/4 (0.240 mi.)***	***E21***	***49***
LAURITZEN YACHT HARB Reg Id: 070054 Reg Id: 070067	***RTE 1***	***SSW 1/4 - 1/2 (0.262 mi.)***	***F27***	***63***
SANTA YNEZ HIGH SCHO Reg Id: 3245	2000 WILBUR	W 1/4 - 1/2 (0.463 mi.)	I36	166

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 08/19/2019 has revealed that there are 2 HWP sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONTRA COSTA POWER P EPA Id: CAT080011489	***PO BOX 249***	***E 1/4 - 1/2 (0.349 mi.)***	***H31***	***96***

Cleanup Status: CLOSED

E.I. DUPONT DE NEMOU ***6000 BRIDGEHEAD RD*** ***E 1/2 - 1 (0.877 mi.)*** ***J43*** ***177***
EPA Id: CAD009151671
Cleanup Status: POST CLOSURE PERMIT

CONTRA COSTA CO. SITE LIST: Lists includes sites from the Underground Tank Program, Hazardous Waste Generator Program & Business Plan 12185 Program

A review of the CONTRA COSTA CO. SITE LIST list, as provided by EDR, and dated 08/20/2019 has revealed that there are 10 CONTRA COSTA CO. SITE LIST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ANTIOCH PAVING COMPA Facility Id: FA0032189	***2540 WILBUR***	***W 0 - 1/8 (0.036 mi.)***	***13***	***24***
ADVANCED PIPELINE SE Facility Id: FA0029348	***2400 WILBUR AVE***	***W 0 - 1/8 (0.115 mi.)***	***D16***	***40***
GENESIS MFG CO Facility Id: FA0031400	2275 WILBUR LN	W 1/8 - 1/4 (0.129 mi.)	D17	45
STONCOR GROUP INC (A Facility Id: FA0042655	***2240 WILBUR LN***	***W 1/8 - 1/4 (0.137 mi.)***	***D19***	***47***
CONSTRUCTION ENGINEE Facility Id: FA0028946	1671 VINEYARD DR	SE 1/8 - 1/4 (0.196 mi.)	20	49
MILITARY FAMILY HOUS Facility Id: FA0028875 Facility Id: FA0030019	***2300 WILBUR***	***W 1/8 - 1/4 (0.240 mi.)***	***E21***	***49***
ANTIOCH PROFESSIONAL Facility Id: FA0029356	***2300 WILBUR AVE***	***W 1/8 - 1/4 (0.240 mi.)***	***E22***	***52***

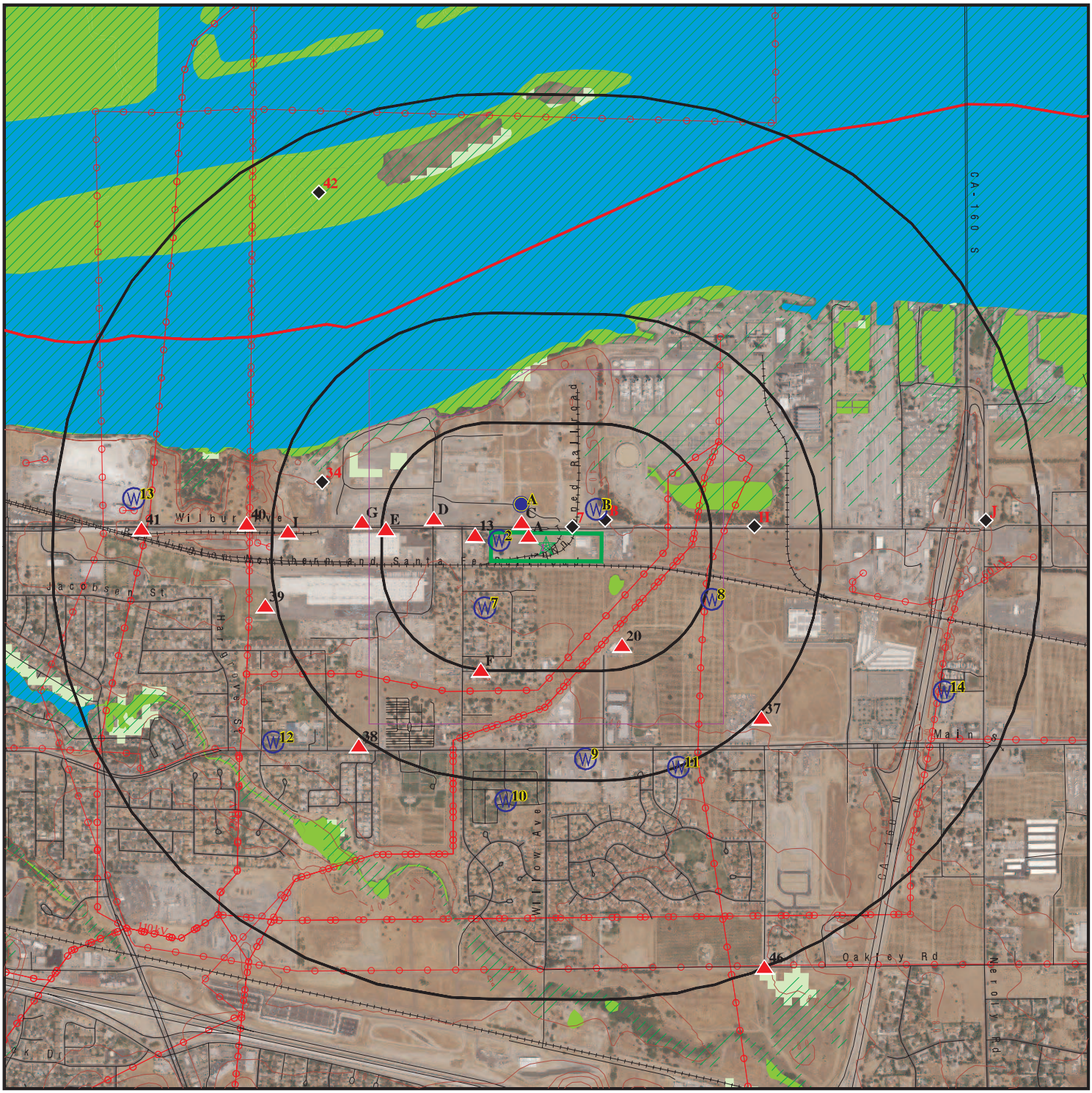
Lower Elevation	Address	Direction / Distance	Map ID	Page
KIEWIT POWER CONSTRU Facility Id: FA0031460	***2925 WILBUR AVE***	***NE 0 - 1/8 (0.014 mi.)***	***7***	***16***
AIKEN UNDERGROUND IN Facility Id: FA0030320	3000 WILBUR AVE B	ENE 0 - 1/8 (0.023 mi.)	B8	18
BAY COUNTIES PITCOCK Facility Id: FA0030514	***3050 WILBUR AVE***	***E 0 - 1/8 (0.060 mi.)***	***B14***	***27***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
DUPONT DE NEMOURS & CO INC	ENVIROSTOR, DEED

OVERVIEW MAP - 5903838.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 416523	CLIENT: AEI Consultants
ADDRESS: 2600 Wilbur Avenue Antioch CA 94509	CONTACT: Nikki Alfaro
LAT/LONG: 38.011652 / 121.769107	INQUIRY #: 5903838.2s DATE: December 12, 2019 5:48 pm

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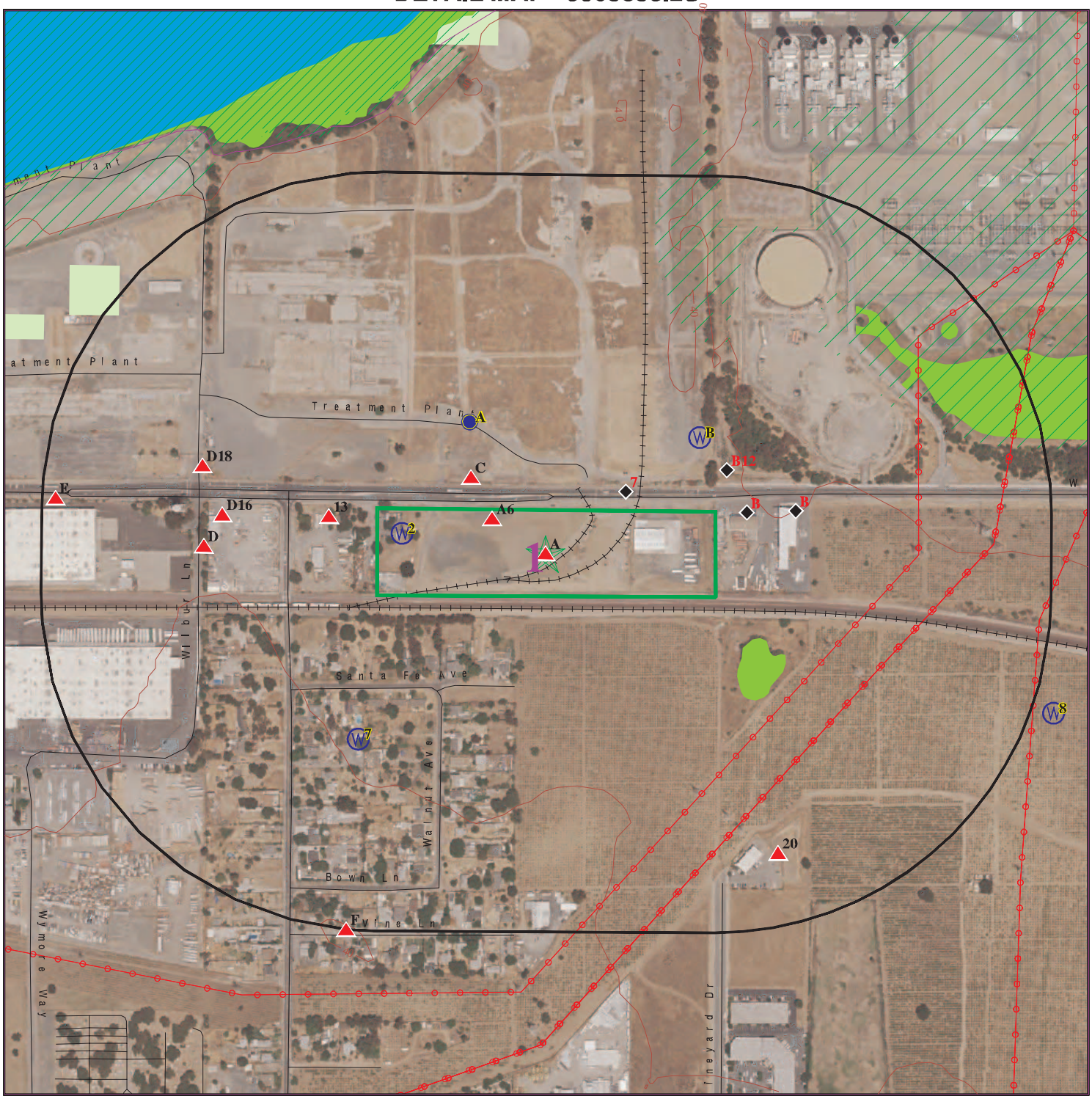
DETAIL MAP - 5903838.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	416523	CLIENT:	AEI Consultants
ADDRESS:	2600 Wilbur Avenue Antioch CA 94509	CONTACT:	Nikki Alfaro
LAT/LONG:	38.011652 / 121.769107	INQUIRY #:	5903838.2s
		DATE:	December 12, 2019 5:49 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	2	NR	NR	2
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	1	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000	1	1	0	3	7	NR	12
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		1	0	3	NR	NR	4

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		1	0	1	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500	1	1	0	2	NR	NR	4
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	2	NR	NR	2
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	2	NR	2
CERS HAZ WASTE	0.250	1	2	1	NR	NR	NR	4
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	1	NR	NR	NR	1
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	1	NR	NR	NR	1
CERS TANKS	0.250		1	0	NR	NR	NR	1
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	2	NR	NR	NR	4
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	1	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	2	NR	NR	NR	NR	NR	2
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		1	1	2	NR	NR	4
HWP	1.000		0	0	1	1	NR	2
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
CONTRA COSTA CO. SITE LIST	0.250	1	5	5	NR	NR	NR	11
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP	1	NR	NR	NR	NR	NR	1
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		8	17	11	19	11	0	66

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **PG&E** **HAZNET** **S123603859**
Target **2600 WILBUR AVE** **N/A**
Property **ANTIOCH, CA 94509**

Site 1 of 6 in cluster A

Actual: **29 ft.**

HAZNET:

Name:	PG&E
Address:	2600 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Year:	2016
GEPAID:	CAC002861040
Contact:	CHRISTINA ELLSWORTH
Telephone:	9252166326
Mailing Name:	Not reported
Mailing Address:	PO BOX 7640
Mailing City,St,Zip:	SAN FRANCISCO, CA 94120
Gen County:	Contra Costa
TSD EPA ID:	CAD980884183
TSD County:	Sacramento
Tons:	0.4
CA Waste Code:	223-Unspecified oil-containing waste
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Contra Costa

A2 **JT TOURS** **CONTRA COSTA CO. SITE LIST** **S120629570**
Target **2600 WILBUR AVE** **N/A**
Property **ANTIOCH, CA 94509**

Site 2 of 6 in cluster A

Actual: **29 ft.**

CONTRA COSTA CO. SITE LIST:

Name:	JT TOURS
Address:	2600 WILBUR AVE
City:	ANTIOCH
Facility ID:	FA0038936
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HMBP: 1K-10K LBS, 0-19 EMPLOYEES
Region:	CONTRA COSTA
Cupa Number:	775391

Name:	JT TOURS
Address:	2600 WILBUR AVE
City:	ANTIOCH
Facility ID:	FA0038936
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HWG: LESS THAN 5 TONS/YEAR
Region:	CONTRA COSTA
Cupa Number:	775391

A3 **PG&E** **HAZNET** **S123604024**
Target **2600 WILBUR AVE** **N/A**
Property **ANTIOCH, CA 94509**

Site 3 of 6 in cluster A

Actual: **29 ft.**

HAZNET:

Name:	PG&E
Address:	2600 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Year:	2016
GEPAID:	CAC002862341
Contact:	CHRISTINA ELLSWORTH
Telephone:	9252166326
Mailing Name:	Not reported
Mailing Address:	PO BOX 7640
Mailing City,St,Zip:	SAN FRANCISCO, CA 941207640
Gen County:	Contra Costa
TSD EPA ID:	CAT000646117
TSD County:	Kings
Tons:	219.96
CA Waste Code:	611-Contaminated soil from site clean-up
Method:	H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Contra Costa

A4 **INDUSTRIAL LOT WITH RAILROAD SIDING** **ENVIROSTOR** **S106568193**
Target **2600 WILBUR AVENUE** **VCP** **N/A**
Property **ANTIOCH, CA 94509**

Site 4 of 6 in cluster A

Actual: **29 ft.**

ENVIROSTOR:

Name:	INDUSTRIAL LOT WITH RAILROAD SIDING
Address:	2600 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509
Facility ID:	7990014
Status:	Certified
Status Date:	03/06/2006
Site Code:	201534
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	10.28
NPL:	NO
Regulatory Agencies:	SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency:	SMBRP
Program Manager:	Megan Indermill
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	11
Senate:	07
Special Program:	Designation of Single Agency
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	38.01165
Longitude:	-121.7691
APN:	051-032-009-6, 051032009
Past Use:	MANUFACTURING - PAPER
Potential COC:	TPH-diesel TPH-MOTOR OIL

INDUSTRIAL LOT WITH RAILROAD SIDING (Continued) **S106568193**

Confirmed COC: TPH-diesel TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: INDUSTRIAL LOT WITH RAILROAD SIDING
Address: 2600 WILBUR AVENUE
City,State,Zip: ANTIOCH, CA 94509
Facility ID: 7990014
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 10.28
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Megan Indermill
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 201534
Assembly: 11
Senate: 07
Special Programs Code: Designation of Single Agency
Status: Certified
Status Date: 03/06/2006
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 38.01165 / -121.7691
APN: 051-032-009-6, 051032009
Past Use: MANUFACTURING - PAPER
Potential COC: 30024, 3002502
Confirmed COC: 30024,3002502
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported

INDUSTRIAL LOT WITH RAILROAD SIDING (Continued) **S106568193**

Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

A5 **INDUSTRIAL LOT WITH RAILROAD SIDING** **FINDS** **1010725729**
Target **2600 WILBUR AVENUE** **N/A**
Property **ANTIOCH, CA 94509**

Site 5 of 6 in cluster A

Actual: **29 ft.**

FINDS:

Registry ID: 110033615130

Environmental Interest/Information System
California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor 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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A6 **JT TOURS** **CERS HAZ WASTE** **S121779840**
Target **2600 WILBUR** **CERS** **N/A**
Property **ANTIOCH, CA 94509**

Site 6 of 6 in cluster A

Actual: **29 ft.**

CERS HAZ WASTE:
Name: JT TOURS
Address: 2600 WILBUR
City,State,Zip: ANTIOCH, CA 94509
Site ID: 417284
CERS ID: 10725403
CERS Description: Hazardous Waste Generator

CERS:
Name: JT TOURS
Address: 2600 WILBUR
City,State,Zip: ANTIOCH, CA 94509

JT TOURS (Continued) **S121779840**

Site ID: 417284
CERS ID: 10725403
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 417284
Site Name: JT Tours
Violation Date: 12-07-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 12/07/2017. OBSERVATION: [2- 55gal drums] of [waste oil] located in the shipping container] was observed without a hazardous waste label. CORRECTIVE ACTION: Submit a photo to the CUPA demonstrating that the container listed above has been properly labeled. Corrected on site.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 417284
Site Name: JT Tours
Violation Date: 12-07-2017
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 02/22/2018. OBSERVATION: The business failed to establish and implement a business plan when handling hazardous materials at or above the reportable threshold quantities. CORRECTIVE ACTION: Establish and implement a business plan for the facility. Submit documentation of correction to the unified program agency. SEE inspection in CERS
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 417284
Site Name: JT Tours
Violation Date: 12-07-2017
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: OBSERVATION: [2-55gal drums] of [Waste oil] located in the [shipping container] was observed open. CORRECTIVE ACTION: Submit photos to the CUPA demonstrating that the container listed above has been properly closed. Provide new containers that will close.
Violation Division: Contra Costa County Health Services Department

JT TOURS (Continued) **S121779840**

Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 03-14-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-07-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-07-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 417284
Site Name: JT Tours
Site Address: 2600 WILBUR
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 12-07-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 417284
Site Name: JT Tours
Site Address: 2600 WILBUR
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 12-07-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW

JT TOURS (Continued) **S121779840**

Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 343 EGRET PL
Affiliation City: PITTSBURG
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94565
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Lydia Talavera
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: LYDIA TALAVERA
Entity Title: OWNER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: LYDIA TALAVERA
Entity Title: Not reported
Affiliation Address: 343 EGRET PL
Affiliation City: PITTSBURG
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94565
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: JUAN & LYDIA TALAVERA
Entity Title: Not reported
Affiliation Address: 343 EGRET PL
Affiliation City: PITTSBURG
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94565
Affiliation Phone: (925) 679-8244

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco BlvdSuite 100

JT TOURS (Continued) **S121779840**

Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Operator
Entity Name:	JUAN TALAVERA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 550-7174
Affiliation Type Desc:	Parent Corporation
Entity Name:	JT Tours
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

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7 **KIEWIT POWER CONSTRUCTORS CO** **CHMIRS S110979463**
NE **2925 WILBUR AVE** **CONTRA COSTA CO. SITE LIST N/A**
< 1/8 **ANTIOCH, CA 94509**
0.014 mi.
76 ft.

Relative: **Lower**

Actual: **24 ft.**

CHMIRS:

Name:	Not reported
Address:	2925 WILBUR AVE
City,State,Zip:	ANTIOCH, CA
OES Incident Number:	10-2915
OES notification:	05/10/2010
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported

KIEWIT POWER CONSTRUCTORS CO (Continued) **S110979463**

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:	Other
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1000
Year:	2010
Agency:	NRC
Incident Date:	5/10/2010
Admin Agency:	Contra Costa County Health Services Department
Amount:	Not reported
Contained:	Unknown
Site Type:	Not reported
E Date:	Not reported
Substance:	Oil Fuel No.2-D
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Per NRC FAX: Caller stated there is a spill of materials from a huge fuel oil tanks that are being cleaned. Caller stated it is unknown if the persons cleaning the storage tanks have permits to clean the tanks.

CONTRA COSTA CO. SITE LIST:

Name:	KIEWIT POWER CONSTRUCTORS CO
Address:	2925 WILBUR AVE
City:	ANTIOCH
Facility ID:	FA0031460
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	APSA: <10K GALLONS

KIEWIT POWER CONSTRUCTORS CO (Continued) **S110979463**

Region: CONTRA COSTA
Cupa Number: 774345

Name: KIEWIT POWER CONSTRUCTORS CO
Address: 2925 WILBUR AVE
City: ANTIOCH
Facility ID: FA0031460
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >500K-2.5M LBS
Region: CONTRA COSTA
Cupa Number: 774345

Name: KIEWIT POWER CONSTRUCTORS CO
Address: 2925 WILBUR AVE
City: ANTIOCH
Facility ID: FA0031460
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: 25 - <50 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 774345

B8 **AIKEN UNDERGROUND INC** **CONTRA COSTA CO. SITE LIST** **S115811630**
ENE **3000 WILBUR AVE B** **N/A**
< 1/8 **ANTIOCH, CA 94509**
0.023 mi.
121 ft. **Site 1 of 5 in cluster B**

Relative:
Lower

Actual:
21 ft.

CONTRA COSTA CO. SITE LIST:
Name: AIKEN UNDERGROUND INC
Address: 3000 WILBUR AVE B
City: ANTIOCH
Facility ID: FA0030320
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP GENERAL
Region: CONTRA COSTA
Cupa Number: 773651

Name: AIKEN UNDERGROUND INC
Address: 3000 WILBUR AVE B
City: ANTIOCH
Facility ID: FA0030320
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 773651

B9 **AIKEN UNDERGROUND INC** **RCRA NonGen / NLR** **1024817669**
ENE **3000 WILBUR AVE STE B** **CAL000322183**
< 1/8 **ANTIOCH, CA 94509**
0.023 mi.
121 ft. **Site 2 of 5 in cluster B**

Relative:
Lower

Actual:
21 ft.

RCRA NonGen / NLR:

Date form received by agency:	2007-07-13 00:00:00.0
Facility name:	AIKEN UNDERGROUND INC
Facility address:	3000 WILBUR AVE STE B ANTIOCH, CA 94509
EPA ID:	CAL000322183
Contact:	MARK J. AIKEN
Contact address:	3000 WILBUR AVE STE B ANTIOCH, CA 94509
Contact country:	Not reported
Contact telephone:	925-776-4600
Contact email:	AIKEN@AIKENUI.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MARK J. AIKEN
Owner/operator address:	3000 WILBUR AVE STE B ANTIOCH, CA 94509
Owner/operator country:	Not reported
Owner/operator telephone:	925-776-4600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	MARK J AIKEN
Owner/operator address:	3000 WILBUR AVE STE B ANTIOCH, CA 94509
Owner/operator country:	Not reported
Owner/operator telephone:	925-776-4600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

AIKEN UNDERGROUND INC (Continued) **1024817669**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

C10 **GAYLORD CONTAINER CORPORATION-EAST MILL** **CPS-SLIC S111460063**
NW **2603 WILBUR AVE** **CERS N/A**
< 1/8 **ANTIOCH, CA**
0.024 mi.
126 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
29 ft.

CPS-SLIC:
Name: GAYLORD CONTAINER CORPORATION-EAST MILL
Address: 2603 WILBUR AVE
City,State,Zip: ANTIOCH, CA
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 10/19/2012
Global Id: SL0601314468
Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)
Lead Agency Case Number: 07260003
Latitude: 38.014833
Longitude: -121.77047
Case Type: Cleanup Program Site
Case Worker: SS
Local Agency: Not reported
RB Case Number: SL0601314468
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Contaminated Surface / Structure, Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: * Perchlorate, * Volatile Organic Compounds (VOC)
Site History: Operations at the former Gaylord Container Corporation Facility, East Mill at 2603 Wilbur Avenue in Antioch caused pollution of the soil and groundwater. The primary pollutant of concern is tetrachloroethylene (PCE), and Arsenic. Between 1947 and 1991, the site operated as a virgin paper and pulp facility. The facility used the Kraft process to manufacture finished paper products.

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

CERS:
Name: GAYLORD CONTAINER CORPORATION-EAST MILL
Address: 2603 WILBUR AVE
City,State,Zip: ANTIOCH, CA
Site ID: 240257
CERS ID: SL0601314468
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: SIDDHARTH SEWALIA - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA

GAYLORD CONTAINER CORPORATION-EAST MILL (Continued) **S111460063**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

C11 **EAST MILL** **ENVIROSTOR** **S112989973**
NW **2603 WILBUR AVENUE** **VCP** **N/A**
< 1/8 **ANTIOCH, CA 94509** **HAZNET**
0.024 mi.
126 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
29 ft.

ENVIROSTOR:
Name: EAST MILL
Address: 2603 WILBUR AVENUE
City,State,Zip: ANTIOCH, CA 94509
Facility ID: 7260003
Status: Active
Status Date: 01/27/2004
Site Code: 202133
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 80.11
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 5S - Central Valley
Lead Agency: SMBRP
Program Manager: Megan Indermill
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Assembly: 11
Senate: 07
Special Program: Designation of Single Agency
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 38.01415
Longitude: -121.7701
APN: 051-031-005-5, 051031005
Past Use: MANUFACTURING - PAPER, MANUFACTURING - PAPER
Potential COC: Dioxin (as 2,3,7,8-TCDD TEQ Asbestos Containing Materials (ACM
Dioxin (as 2,3,7,8-TCDD TEQ Lead Polychlorinated biphenyls (PCBs
Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-MOTOR OIL Furan
Not reported
Confirmed COC: Dioxin (as 2,3,7,8-TCDD TEQ Dioxin (as 2,3,7,8-TCDD TEQ Lead
Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-MOTOR OIL
Furan 40001-NO Polychlorinated biphenyls (PCBs
Potential Description: OTH, SOIL, OTH, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported

EAST MILL (Continued) **S112989973**

Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Name:	EAST MILL
Address:	2603 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509
Facility ID:	7260003
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	80.11
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 5S - Central Valley
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Megan Indermill
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Site Code:	202133
Assembly:	11
Senate:	07
Special Programs Code:	Designation of Single Agency
Status:	Active
Status Date:	01/27/2004
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	38.01415 / -121.7701
APN:	051-031-005-5, 051031005
Past Use:	MANUFACTURING - PAPER, MANUFACTURING - PAPER
Potential COC:	30009, 40001, 30009, 30013, 30018, 30019, 30024, 3002502, 30298
Confirmed COC:	30009,, ,30009,30013,30019,30024,3002502,30298,40001-NO,30018
Potential Description:	OTH, SOIL, OTH, SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported

EAST MILL (Continued) **S112989973**

Schedule Revised Date: Not reported

HAZNET:
Name: DECON ENVIRONMENTAL
Address: 2603 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Year: 2011
GEPAID: CAC002671503
Contact: DEDE MARTINEZ
Telephone: 5107326444
Mailing Name: Not reported
Mailing Address: 23490 CONNECTICUT ST
Mailing City,St,Zip: HAYWARD, CA 94545
Gen County: Contra Costa
TSD EPA ID: CAD980887418
TSD County: Alameda
Tons: 1.2
CA Waste Code: 352-Other organic solids
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Contra Costa

B12 **LOUISIANA-PACIFIC CORP SAN JOAQUIN MILL** **RCRA-SQG** **1000262972**
ENE **E WILBUR AVE** **CAD009151705**
< 1/8 **ANTIOCH, CA 94509**
0.032 mi.
170 ft. **Site 3 of 5 in cluster B**

Relative: **Lower**

Actual: **20 ft.**

RCRA-SQG:
Date form received by agency: 1996-09-01 00:00:00.0
Facility name: LOUISIANA-PACIFIC CORP SAN JOAQUIN MILL
Facility address: E WILBUR AVE
ANTIOCH, CA 94509
EPA ID: CAD009151705
Mailing address: PO BOX 190
ANTIOCH, CA 94509
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: LOUISIANA-PACIFIC CORP
Owner/operator address: PO BOX 190
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-757-4000
Owner/operator email: Not reported

LOUISIANA-PACIFIC CORP SAN JOAQUIN MILL (Continued) **1000262972**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GAYLORD CONTAINER CORPORATION
Owner/operator address: PO BOX 190
ANTIOCH, CA 94509
Owner/operator country: Not reported
Owner/operator telephone: 415-757-4000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1986-01-31 00:00:00.0
Site name: LOUISIANA-PACIFIC CORP SAN JOAQUIN MILL
Classification: Large Quantity Generator

Violation Status: No violations found

13
West
< 1/8
0.036 mi.
190 ft.

ANTIOCH PAVING COMPANY
2540 WILBUR
ANTIOCH, CA 94509

LUST **S102259981**
HIST CORTESE **N/A**
CONTRA COSTA CO. SITE LIST
CERS

Relative:
Higher

Actual:
33 ft.

LUST REG 5:
Name: ANTIOCH PAVING COMPANY
Address: 2540 WILBUR AVE
City: ANTIOCH
Region: 5
Status: Case Closed
Case Number: 030075
Case Type: Soil only

ANTIOCH PAVING COMPANY (Continued) **S102259981**

Substance: HYDROCARBONS
Staff Initials: PMV
Lead Agency: Local
Program: LUST
MTBE Code: N/A

LUST:
Name: ANTIOCH PAVING COMPANY
Address: 2540 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Lead Agency: CONTRA COSTA COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300794
Global Id: T0601300794
Latitude: 38.0116749
Longitude: -121.771962
Status: Completed - Case Closed
Status Date: 02/09/2000
Case Worker: BRU
RB Case Number: 030075
Local Agency: CONTRA COSTA COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

LUST:
Global Id: T0601300794
Contact Type: Local Agency Caseworker
Contact Name: BRUCE BENIKI
Organization Name: CONTRA COSTA COUNTY
Address: Not reported
City: r5 UNKNOWN
Email: Not reported
Phone Number: Not reported

Global Id: T0601300794
Contact Type: Regional Board Caseworker
Contact Name: VERA J. FISCHER
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: vera.fischer@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0601300794
Action Type: Other
Date: 08/25/1994
Action: Leak Discovery

Global Id: T0601300794
Action Type: ENFORCEMENT
Date: 01/11/2000
Action: Staff Letter

ANTIOCH PAVING COMPANY (Continued) **S102259981**

Global Id: T0601300794
Action Type: Other
Date: 09/30/1994
Action: Leak Reported

Global Id: T0601300794
Action Type: ENFORCEMENT
Date: 12/02/2005
Action: Verbal Communication

LUST:
Global Id: T0601300794
Status: Open - Case Begin Date
Status Date: 08/25/1994

Global Id: T0601300794
Status: Open - Site Assessment
Status Date: 08/25/1994

Global Id: T0601300794
Status: Completed - Case Closed
Status Date: 02/09/2000

HIST CORTESE:
edr_fname: ANTIOCH PAVING COMPANY
edr_fadd1: 2540 WILBUR
City,State,Zip: ANTIOCH, CA 94509
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 070075

CONTRA COSTA CO. SITE LIST:
Name: ANTIOCH PAVING CO INC
Address: 2540 WILBUR AVE
City: ANTIOCH
Facility ID: FA0032189
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 738072

Name: ANTIOCH PAVING CO INC
Address: 2540 WILBUR AVE
City: ANTIOCH
Facility ID: FA0032189
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 738072

Name: ANTIOCH PAVING CO INC
Address: 2540 WILBUR AVE

ANTIOCH PAVING COMPANY (Continued) **S102259981**

City: ANTIOCH
Facility ID: FA0032189
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: UNDERGROUND STORAGE TANK SITE
Region: CONTRA COSTA
Cupa Number: 738072

CERS:
Name: ANTIOCH PAVING COMPANY
Address: 2540 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Site ID: 213745
CERS ID: T0601300794
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: BRUCE BENIKI - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: r5 UNKNOWN
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: VERA J. FISCHER - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

B14 **BAY COUNTIES PITCOCK PETROLEUM** **AST** **S113149817**
East **3050 WILBUR AVE** **CERS HAZ WASTE** **N/A**
< 1/8 **ANTIOCH, CA 94509** **CERS TANKS**
0.060 mi. **EMI**
315 ft. **Site 4 of 5 in cluster B** **HAZNET**
CONTRA COSTA CO. SITE LIST
Relative: **CERS**
Lower

Actual: **20 ft.**

AST:
Name: BAY COUNTIES PITCOCK PETROLEUM
Address: 3050 WILBUR AVE
City/Zip: ANTIOCH,94509
Certified Unified Program Agencies: Not reported
Owner: Hunt & Sons, Inc
Total Gallons: Not reported
CERSID: 10019260
Facility ID: 7000773845
Business Name: BAY COUNTIES PITCOCK PETROLEUM
Phone: 916-383-4868
Fax: 916-383-1005

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Mailing Address:	PO Box 277670
Mailing Address City:	Sacramento
Mailing Address State:	CA
Mailing Address Zip Code:	95827
Operator Name:	Hunt & Sons, Inc.
Operator Phone:	916-383-4868
Owner Phone:	916-383-4868
Owner Mail Address:	PO Box 277670
Owner State:	CA
Owner Zip Code:	95827
Owner Country:	United States
Property Owner Name:	Hunt & Sons, Inc
Property Owner Phone:	916-383-4868
Property Owner Mailing Address:	PO Box 277670
Property Owner City:	Sacramento
Property Owner Stat :	CA
Property Owner Zip Code:	95827
Property Owner Country:	United States
EPAID:	cal000367962

CERS HAZ WASTE:

Name:	BAY COUNTIES PITCOCK PETROLEUM
Address:	3050 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Site ID:	97661
CERS ID:	10019260
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	BAY COUNTIES PITCOCK PETROLEUM
Address:	3050 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Site ID:	97661
CERS ID:	10019260
CERS Description:	Aboveground Petroleum Storage

EMI:

Name:	BAY COUNTIES PITCOCK PETROLEUM
Address:	3050 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Year:	2017
County Code:	7
Air Basin:	SF
Facility ID:	112585
Air District Name:	BA
SIC Code:	5411
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.035121152
Reactive Organic Gases Tons/Yr:	0.035121152
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

HAZNET:

Name:	ANTIOCH BULK PLANT - CARDLOCK
Address:	3050 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Year:	2017
GEPAID:	CAL000367962
Contact:	DAVID SARANTOPOULOS
Telephone:	5306161085
Mailing Name:	Not reported
Mailing Address:	5750 S WATT AVE
Mailing City,St,Zip:	SACRAMENTO, CA 958290000
Gen County:	Contra Costa
TSD EPA ID:	AZR000515924
TSD County:	99
Tons:	1.025
CA Waste Code:	223-Unspecified oil-containing waste
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Contra Costa

Name:	ANTIOCH BULK PLANT - CARDLOCK
Address:	3050 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Year:	2017
GEPAID:	CAL000367962
Contact:	DAVID SARANTOPOULOS
Telephone:	5306161085
Mailing Name:	Not reported
Mailing Address:	5750 S WATT AVE
Mailing City,St,Zip:	SACRAMENTO, CA 958290000
Gen County:	Contra Costa
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Tons:	0.136
CA Waste Code:	343-Unspecified organic liquid mixture
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Contra Costa

Name:	ANTIOCH BULK PLANT - CARDLOCK
Address:	3050 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Year:	2017
GEPAID:	CAL000367962
Contact:	DAVID SARANTOPOULOS
Telephone:	5306161085
Mailing Name:	Not reported
Mailing Address:	5750 S WATT AVE
Mailing City,St,Zip:	SACRAMENTO, CA 958290000
Gen County:	Contra Costa
TSD EPA ID:	AZR000515924
TSD County:	99
Tons:	0.125
CA Waste Code:	223-
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Contra Costa

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Name: ANTIOCH BULK PLANT - CARDLOCK
Address: 3050 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Year: 2017
GEPAID: CAL000367962
Contact: DAVID SARANTOPOULOS
Telephone: 5306161085
Mailing Name: Not reported
Mailing Address: 5750 S WATT AVE
Mailing City,St,Zip: SACRAMENTO, CA 958290000
Gen County: Contra Costa
TSD EPA ID: AZR000515924
TSD County: 99
Tons: 0.0625
CA Waste Code: -
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Contra Costa

Name: ANTIOCH BULK PLANT - CARDLOCK
Address: 3050 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Year: 2017
GEPAID: CAL000367962
Contact: DAVID SARANTOPOULOS
Telephone: 5306161085
Mailing Name: Not reported
Mailing Address: 5750 S WATT AVE
Mailing City,St,Zip: SACRAMENTO, CA 958290000
Gen County: Contra Costa
TSD EPA ID: AZR000515924
TSD County: 99
Tons: 0.15
CA Waste Code: 223-
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Contra Costa

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

CONTRA COSTA CO. SITE LIST:
Name: BAY COUNTIES PITCOCK PETROLEUM
Address: 3050 WILBUR AVE
City: ANTIOCH
Facility ID: FA0030514
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: APSA: 10K - <100K GALLONS
Region: CONTRA COSTA
Cupa Number: 773845

Name: BAY COUNTIES PITCOCK PETROLEUM
Address: 3050 WILBUR AVE
City: ANTIOCH
Facility ID: FA0030514
Billing Status: ACTIVE, BILLABLE

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >500K-2.5M LBS
Region: CONTRA COSTA
Cupa Number: 773845

Name: BAY COUNTIES PITCOCK PETROLEUM
Address: 3050 WILBUR AVE
City: ANTIOCH
Facility ID: FA0030514
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: 12 - <25 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 773845

CERS:
Name: BAY COUNTIES PITCOCK PETROLEUM
Address: 3050 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Site ID: 97661
CERS ID: 10019260
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 97661
Site Name: BAY COUNTIES PITCOCK PETROLEUM
Violation Date: 06-24-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/02/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 97661
Site Name: BAY COUNTIES PITCOCK PETROLEUM
Violation Date: 06-24-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/08/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 97661
Site Name: BAY COUNTIES PITCOCK PETROLEUM
Violation Date: 05-28-2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to promptly correct visible discharges and promptly remove any accumulations of oil in diked areas.
Violation Notes: Returned to compliance on 06/05/2019. OBSERVATION: The fill boxes for the 3 compartment split tank each had standing petroleum. CORRECTIVE ACTION: By June 27, 2019, provide documentation that the fill boxes have had the petroleum cleaned out of each of the fill boxes.

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	97661
Site Name:	BAY COUNTIES PITCOCK PETROLEUM
Violation Date:	04-24-2015
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 04/24/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	97661
Site Name:	BAY COUNTIES PITCOCK PETROLEUM
Violation Date:	05-01-2015
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/04/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	97661
Site Name:	BAY COUNTIES PITCOCK PETROLEUM
Violation Date:	05-01-2015
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/04/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	97661
Site Name:	BAY COUNTIES PITCOCK PETROLEUM
Violation Date:	05-28-2019
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to test or inspect each aboveground container for integrity based on industry standards as discussed in the SPCC Plan: 1. On a regular schedule. 2. After making material repairs. 3. Use non-destructive testing. 4. Inspect each container?s supports, foundations, and outside for signs of deterioration, discharges, or accumulation of oil inside diked areas."
Violation Notes:	Returned to compliance on 06/05/2019. OBSERVATION: The facility has documented monthly inspections but was unable to provide documentation of annual inspections in accordance with the industry standard listed in the SPCC Plan (STI SP001). CORRECTIVE ACTION: By June 27, 2019, provide a completed annual inspection that shows all APSA containers and tanks are inspected.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-30-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-30-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-30-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-11-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-12-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-14-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-14-2017

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-24-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-01-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-01-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-28-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-28-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-05-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-24-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-24-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 97661
Site Name: BAY COUNTIES PITCOCK PETROLEUM
Site Address: 3050 WILBUR AVE
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 04-24-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 97661
Site Name: BAY COUNTIES PITCOCK PETROLEUM
Site Address: 3050 WILBUR AVE

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	05-01-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	97661
Site Name:	BAY COUNTIES PITCOCK PETROLEUM
Site Address:	3050 WILBUR AVE
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	05-01-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HW
Enf Action Source:	CERS

Site ID:	97661
Site Name:	BAY COUNTIES PITCOCK PETROLEUM
Site Address:	3050 WILBUR AVE
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	05-28-2019
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	97661
Site Name:	BAY COUNTIES PITCOCK PETROLEUM
Site Address:	3050 WILBUR AVE
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	06-24-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	97661
Site Name:	BAY COUNTIES PITCOCK PETROLEUM
Site Address:	3050 WILBUR AVE
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	06-24-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 97661
Facility Name: BAY COUNTIES PITCOCK PETROLEUM
Env Int Type Code: HWG
Program ID: 10019260
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 38.011658
Longitude: -121.765686

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Zachary James
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: BAY COUNTIES PITCOCK PETROLEUM
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Steve Myers
Entity Title: Not reported
Affiliation Address: PO Box 277670
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95827
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO Box 277670
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95827
Affiliation Phone: Not reported

BAY COUNTIES PITCOCK PETROLEUM (Continued) **S113149817**

Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200

Affiliation Type Desc:	Identification Signer
Entity Name:	Joshua Hunt
Entity Title:	General Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Hunt & Sons, Inc
Entity Title:	Not reported
Affiliation Address:	PO Box 277670
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95827
Affiliation Phone:	(916) 383-4868

Affiliation Type Desc:	Operator
Entity Name:	Hunt & Sons, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 383-4868

Affiliation Type Desc:	Property Owner
Entity Name:	Hunt & Sons, Inc
Entity Title:	Not reported
Affiliation Address:	PO Box 277670
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95827
Affiliation Phone:	(916) 383-4868

B15 **ANTIOCH BULK PLANT - CARDLOCK** **RCRA NonGen / NLR** **1024831383**
East **3050 WILBUR AVE** **CAL000367962**
< 1/8 **ANTIOCH, CA 94509**
0.060 mi.
315 ft. **Site 5 of 5 in cluster B**

Relative:
Lower

Actual:
20 ft.

RCRA NonGen / NLR:

Date form received by agency:	2011-09-30 00:00:00.0
Facility name:	ANTIOCH BULK PLANT - CARDLOCK
Facility address:	3050 WILBUR AVE ANTIOCH, CA 94509
EPA ID:	CAL000367962
Mailing address:	5750 S WATT AVE SACRAMENTO, CA 95829-0000
Contact:	DAVID SARANTOPOULOS
Contact address:	5750 SOUTH WATT AVENUE SACRAMENTO, CA 95829
Contact country:	Not reported
Contact telephone:	530-616-1085
Contact email:	DSARANTOPOULOS@HUNTNSONS.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	DAVID SARANTOPOULOS
Owner/operator address:	5750 SOUTH WATT AVENUE SACRAMENTO, CA 95829
Owner/operator country:	Not reported
Owner/operator telephone:	530-616-1085
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	HUNT & SON'S INC
Owner/operator address:	5750 SOUTH WATT AVENUE SACAREMNTO, CA 95852
Owner/operator country:	Not reported
Owner/operator telephone:	916-383-4868
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No

ANTIOCH BULK PLANT - CARDLOCK (Continued) **1024831383**

On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

D16 **ADVANCED PIPELINE SERVICES, INC.** **CERS HAZ WASTE** **S103464196**
West **2400 WILBUR AVE** **HAZNET** **N/A**
< 1/8 **ANTIOCH, CA 94509** **CONTRA COSTA CO. SITE LIST**
0.115 mi. **CERS**
609 ft. **Site 1 of 4 in cluster D**

Relative:
Higher

Actual:
34 ft.

CERS HAZ WASTE:

Name:	HOMESITE SERVICES, INC.
Address:	2400 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Site ID:	372515
CERS ID:	10672537
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	ADVANCED PIPELINE SERVICES, INC.
Address:	2400 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Year:	2013
GEPAID:	CAC002736447
Contact:	ROBERT WHITMAN
Telephone:	9252401900
Mailing Name:	Not reported
Mailing Address:	P.O. BOX 1461
Mailing City,St,Zip:	DISCOVERY BAY, CA 94505
Gen County:	Contra Costa
TSD EPA ID:	CAD980675276
TSD County:	Kern
Tons:	15.1704
CA Waste Code:	181-Other inorganic solid waste
Method:	H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Contra Costa

CONTRA COSTA CO. SITE LIST:

Name:	HOMESITE SERVICES, INC.
Address:	2400 WILBUR AVE
City:	ANTIOCH
Facility ID:	FA0029348
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	APSA: <10K GALLONS
Region:	CONTRA COSTA
Cupa Number:	772668

Name: HOMESITE SERVICES, INC.

ADVANCED PIPELINE SERVICES, INC. (Continued) **S103464196**

Address: 2400 WILBUR AVE
City: ANTIOCH
Facility ID: FA0029348
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: 2000 OR MORE TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 772668

Name: HOMESITE SERVICES, INC.
Address: 2400 WILBUR AVE
City: ANTIOCH
Facility ID: FA0029348
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 772668

Name: HOMESITE SERVICES, INC.
Address: 2400 WILBUR AVE
City: ANTIOCH
Facility ID: FA0029348
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 772668

CERS:
Name: HOMESITE SERVICES, INC.
Address: 2400 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Site ID: 372515
CERS ID: 10672537
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 372515
Site Name: Homesite Services, Inc.
Violation Date: 05-09-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Tiered Permitting Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/23/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 372515
Site Name: Homesite Services, Inc.
Violation Date: 08-18-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 09/16/2016.
Violation Division: Contra Costa County Health Services Department

ADVANCED PIPELINE SERVICES, INC. (Continued) **S103464196**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 372515
Site Name: Homesite Services, Inc.
Violation Date: 08-18-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Training - General
Violation Notes: Returned to compliance on 09/13/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-09-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-18-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-18-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 372515
Site Name: Homesite Services, Inc.
Site Address: 2400 WILBUR AVE
Site City: ANTIOCH

ADVANCED PIPELINE SERVICES, INC. (Continued) **S103464196**

Site Zip: 94509
Enf Action Date: 05-09-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 372515
Site Name: Homesite Services, Inc.
Site Address: 2400 WILBUR AVE
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 08-18-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 372515
Facility Name: Homesite Services, Inc.
Env Int Type Code: HWG
Program ID: 10672537
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 38.012290
Longitude: -121.773380

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Roger Ourthiague
Entity Title: Not reported
Affiliation Address: 6611 Preston Ave. STE E
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94551
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Homesite Services, Inc.
Entity Title: Not reported
Affiliation Address: 6611 Preston Ave. STE E
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94551
Affiliation Phone: (925) 775-5437

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported

ADVANCED PIPELINE SERVICES, INC. (Continued) **S103464196**

Affiliation Address:	2400 Wilbur Ave.
Affiliation City:	Antioch
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94509
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Roger Ourthiague
Entity Title:	Safety Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200
Affiliation Type Desc:	Document Preparer
Entity Name:	Roger Ourthiague
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Roger Ourthiague
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 775-5437
Affiliation Type Desc:	Parent Corporation
Entity Name:	Homesite Services, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

D17 **GENESIS MFG CO** **CONTRA COSTA CO. SITE LIST** **S102259994**
West **2275 WILBUR LN** **N/A**
1/8-1/4 **ANTIOCH, CA 94509**
0.129 mi.
681 ft. **Site 2 of 4 in cluster D**

Relative:
Higher

Actual:
35 ft.

CONTRA COSTA CO. SITE LIST:

Name:	GENESIS MFG CO
Address:	2275 WILBUR LN
City:	ANTIOCH
Facility ID:	FA0031400
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HMBP GENERAL
Region:	CONTRA COSTA
Cupa Number:	707785

D18 **ANTIOCH PAVING CO. YARD** **SWEEPS UST** **S101581089**
WNW **CRN WILBUR & VIERA AVE** **CA FID UST** **N/A**
1/8-1/4 **ANTIOCH, CA 94509**
0.134 mi.
708 ft. **Site 3 of 4 in cluster D**

Relative:
Higher

Actual:
32 ft.

SWEEPS UST:

Name:	ANTIOCH PAVING CO. YARD
Address:	CRN WILBUR & VIERA AVE
City:	ANTIOCH
Status:	Active
Comp Number:	38072
Number:	1
Board Of Equalization:	44-002393
Referral Date:	10-31-91
Action Date:	10-31-91
Created Date:	07-22-88
Owner Tank Id:	1
SWRCB Tank Id:	07-000-038072-000001
Tank Status:	A
Capacity:	7500
Active Date:	10-31-91
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	4

Name:	ANTIOCH PAVING CO. YARD
Address:	CRN WILBUR & VIERA AVE
City:	ANTIOCH
Status:	Active
Comp Number:	38072
Number:	1
Board Of Equalization:	44-002393
Referral Date:	10-31-91
Action Date:	10-31-91
Created Date:	07-22-88
Owner Tank Id:	2
SWRCB Tank Id:	07-000-038072-000002
Tank Status:	A
Capacity:	4000
Active Date:	10-31-91
Tank Use:	M.V. FUEL

ANTIOCH PAVING CO. YARD (Continued) **S101581089**

STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: ANTIOCH PAVING CO. YARD
Address: CRN WILBUR & VIERA AVE
City: ANTIOCH
Status: Active
Comp Number: 38072
Number: 1
Board Of Equalization: 44-002393
Referral Date: 10-31-91
Action Date: 10-31-91
Created Date: 07-22-88
Owner Tank Id: 3
SWRCB Tank Id: 07-000-038072-000003
Tank Status: A
Capacity: 1500
Active Date: 10-31-91
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: ANTIOCH PAVING CO. YARD
Address: CRN WILBUR & VIERA AVE
City: ANTIOCH
Status: Active
Comp Number: 38072
Number: 1
Board Of Equalization: 44-002393
Referral Date: 10-31-91
Action Date: 10-31-91
Created Date: 07-22-88
Owner Tank Id: 4
SWRCB Tank Id: 07-000-038072-000004
Tank Status: A
Capacity: 500
Active Date: 10-31-91
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 07001377
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4157570123
Mail To: Not reported
Mailing Address: CRN WILBUR & VIERA AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: ANTIOCH 94509
Contact: Not reported
Contact Phone: Not reported

ANTIOCH PAVING CO. YARD (Continued) **S101581089**

DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

D19 **STONCOR GROUP INC (ANTIOCH, CA)** **CONTRA COSTA CO. SITE LIST** **S123531671**
West **2240 WILBUR LN** **CERS** **N/A**
1/8-1/4 **ANTIOCH, CA 94509**
0.137 mi.
721 ft. **Site 4 of 4 in cluster D**

Relative:
Higher

Actual:
36 ft.

CONTRA COSTA CO. SITE LIST:
Name: STONCOR GROUP INC (ANTIOCH, CA)
Address: 2240 WILBUR LN
City: ANTIOCH
Facility ID: FA0042655
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >100K-250K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 776333

CERS:
Name: STONCOR GROUP INC (ANTIOCH, CA)
Address: 2240 WILBUR LN
City,State,Zip: ANTIOCH, CA 94509
Site ID: 517917
CERS ID: 10783075
CERS Description: Chemical Storage Facilities

Coordinates:
Site ID: 517917
Facility Name: StonCor Group Inc (Antioch, CA)
Env Int Type Code: HMBP
Program ID: 10783075
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 38.009830
Longitude: -121.776150

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco BlvdSuite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 335-3200

Affiliation Type Desc: Identification Signer
Entity Name: Lee Bowers
Entity Title: Vice President, Operations
Affiliation Address: Not reported
Affiliation City: Not reported

STONCOR GROUP INC (ANTIOCH, CA) (Continued) **S123531671**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Lee Bowers
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Ben Darnell
Entity Title:	Not reported
Affiliation Address:	1000 EAST PARK AVENUE
Affiliation City:	MAPLE SHADE
Affiliation State:	NJ
Affiliation Country:	Not reported
Affiliation Zip:	08052
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2240 Wilbur Lane
Affiliation City:	Antioch
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94509
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	StonCor Group, Inc
Entity Title:	Not reported
Affiliation Address:	1000 East Park Avenue
Affiliation City:	Maple Shade
Affiliation State:	NJ
Affiliation Country:	United States
Affiliation Zip:	08052
Affiliation Phone:	(865) 779-7500
Affiliation Type Desc:	Parent Corporation
Entity Name:	StonCor Group Inc (Antioch, CA)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	StonCor Group, Inc

STONCOR GROUP INC (ANTIOCH, CA) (Continued) **S123531671**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(856) 779-7500

20
SE
1/8-1/4
0.196 mi.
1036 ft.

CONSTRUCTION ENGINEERING SVCS **CONTRA COSTA CO. SITE LIST** **S102261691**
1671 VINEYARD DR **N/A**
ANTIOCH, CA 94509

Relative:
Higher

Actual:
32 ft.

CONTRA COSTA CO. SITE LIST:

Name:	CONSTRUCTION ENGINEERING SVCS
Address:	1671 VINEYARD DR
City:	ANTIOCH
Facility ID:	FA0028946
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HWG: LESS THAN 5 TONS/YEAR
Region:	CONTRA COSTA
Cupa Number:	772238

E21
West
1/8-1/4
0.240 mi.
1266 ft.

MILITARY FAMILY HOUSING **HIST CORTESE** **S105022533**
2300 WILBUR **CONTRA COSTA CO. SITE LIST** **N/A**
ANTIOCH, CA 94509 **CERS**

Site 1 of 3 in cluster E

Relative:
Higher

Actual:
32 ft.

HIST CORTESE:

edr_fname:	MILITARY FAMILY HOUSING
edr_fadd1:	2300 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	CORTESE
Facility County Code:	7
Reg By:	LTNKA
Reg Id:	3009

CONTRA COSTA CO. SITE LIST:

Name:	CONCORD SHEET METAL PRODUCTS
Address:	2300 WILBUR AVE
City:	ANTIOCH
Facility ID:	FA0028875
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HMBP: LESS THAN 1000 LBS
Region:	CONTRA COSTA
Cupa Number:	772164

Name:	AT&T MOBILITY - ANTIOCH (USID12989)
Address:	2300 WILBUR AVE
City:	ANTIOCH
Facility ID:	FA0030019

MILITARY FAMILY HOUSING (Continued) **S105022533**

Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: LESS THAN 1000 LBS
Region: CONTRA COSTA
Cupa Number: 773349

CERS:
Name: AT&T MOBILITY - ANTIOCH (USID12989)
Address: 2300 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Site ID: 8115
CERS ID: 10017772
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-08-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco BlvdSuite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 335-3200

Affiliation Type Desc: Environmental Contact
Entity Name: David Newton
Entity Title: Not reported
Affiliation Address: 4849 Appian Way
Affiliation City: El Sobrante
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94803
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: New Cingular Wireless PCS, LLC dba AT&T Mobility
Entity Title: Not reported
Affiliation Address: 308 S. Akard St., 17th Floor
Affiliation City: Dallas
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 75202
Affiliation Phone: (214) 464-1712

Affiliation Type Desc: Document Preparer
Entity Name: Peter Burnell, Sigma Consultants, Inc.

MILITARY FAMILY HOUSING (Continued) **S105022533**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	308 S. Akard St., 17th Floor
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	75202
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jeremy McGrue
Entity Title:	National EPCRA Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 207-0491
Affiliation Type Desc:	Parent Corporation
Entity Name:	AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E22 **ANTIOCH PROFESSIONAL PLAZA** **CERS HAZ WASTE** **S103464195**
West **2300 WILBUR AVE** **CONTRA COSTA CO. SITE LIST** **N/A**
1/8-1/4 **ANTIOCH, CA 94509** **WDS**
0.240 mi. **CIWQS**
1266 ft. **Site 2 of 3 in cluster E** **CERS**

Relative:
Higher

Actual:
32 ft.

CERS HAZ WASTE:
Name: ADVANCE DESIGN MANUFACTURING
Address: 2300 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Site ID: 438050
CERS ID: 10763386
CERS Description: Hazardous Waste Generator

CONTRA COSTA CO. SITE LIST:
Name: ADVANCE DESIGN MANUFACTURING
Address: 2300 WILBUR AVE
City: ANTIOCH
Facility ID: FA0029356
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >250K-500K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 772676

Name: ADVANCE DESIGN MANUFACTURING
Address: 2300 WILBUR AVE
City: ANTIOCH
Facility ID: FA0029356
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 772676

Name: ADVANCE DESIGN MANUFACTURING
Address: 2300 WILBUR AVE
City: ANTIOCH
Facility ID: FA0029356
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 772676

WDS:
Name: ANTIOCH PROFESSIONAL PLAZA
Address: 2300 Wilbur Ave
City: ANTIOCH
Facility ID: 5S 07I018161
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.

ANTIOCH PROFESSIONAL PLAZA (Continued) **S103464195**

NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	0
Facility Telephone:	7075761200
Facility Contact:	Dave Wyrick
Agency Name:	REDWOOD CONST INC
Agency Address:	23201 Lake Center Dr Ste 330
Agency City,St,Zip:	Lake Forest 926306808
Agency Contact:	Dave Wyrick
Agency Telephone:	9498597402
Agency Type:	?
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	ANTIOCH PROFESSIONAL PLAZA
Address:	2300 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Agency:	F & F Antioch Asociates LLC
Agency Address:	1860 Howe Ave Ste 445, Sacramento, CA 95825
Place/Project Type:	Industrial - Corrugated and Solid Fiber Boxes
SIC/NAICS:	2653(+)
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S07I018161
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	05/30/2003
Termination Date:	08/30/2007
Expiration/Review Date:	Not reported
Design Flow:	Not reported

ANTIOCH PROFESSIONAL PLAZA (Continued) **S103464195**

Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.01231
Longitude:	-121.77604

CERS:

Name:	ADVANCE DESIGN MANUFACTURING
Address:	2300 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Site ID:	438050
CERS ID:	10763386
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	438050
Site Name:	Advance Design Manufacturing
Violation Date:	07-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/24/2018. OBSERVATION: The business failed to complete and electronically submit chemical inventory information for all reportable hazardous materials on site at or above reportable quantities. CORRECTIVE ACTION: Complete and electronically submit the chemical inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	438050
Site Name:	Advance Design Manufacturing
Violation Date:	07-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 07/24/2018. OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. CORRECTIVE ACTION: Complete and electronically submit a site map with all required content.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	438050
Site Name:	Advance Design Manufacturing
Violation Date:	07-20-2018

ANTIOCH PROFESSIONAL PLAZA (Continued) **S103464195**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 07/24/2018. OBSERVATION: The business failed to establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material. CORRECTIVE ACTION: Establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material within 30 days.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-23-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-24-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	438050
Site Name:	Advance Design Manufacturing
Site Address:	2300 WILBUR AVE

ANTIOCH PROFESSIONAL PLAZA (Continued) **S103464195**

Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	07-20-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Contra Costa County Health Services Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	438050
Facility Name:	Advance Design Manufacturing
Env Int Type Code:	HMBP
Program ID:	10763386
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	38.012290
Longitude:	-121.774970

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100
Affiliation City:	Martinez
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94553
Affiliation Phone:	(925) 335-3200

Affiliation Type Desc:	Legal Owner
Entity Name:	Andy McGrath & Dave Murry
Entity Title:	Not reported
Affiliation Address:	2300 Wilbur Ave.
Affiliation City:	Antioch
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94509
Affiliation Phone:	(800) 690-0002

Affiliation Type Desc:	Operator
Entity Name:	Advance Design Manufacturing
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(800) 690-0002

Affiliation Type Desc:	Parent Corporation
Entity Name:	Advance Design Manufacturing
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

ANTIOCH PROFESSIONAL PLAZA (Continued) **S103464195**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Jason Leffingwell
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jason Leffingwell
Entity Title:	Not reported
Affiliation Address:	2300 Wilbur Ave.
Affiliation City:	Antioch
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94509
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2300 Wilbur Ave.
Affiliation City:	Antioch
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94509
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jason Leffingwell
Entity Title:	Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E23 **ADVANCE DESIGN MFG LLC** **RCRA NonGen / NLR** **1024864751**
West **2300 WILBUR AVE** **CAL000433315**
1/8-1/4 **ANTIOCH, CA 94509**
0.240 mi.
1266 ft. **Site 3 of 3 in cluster E**

Relative:
Higher

Actual:
32 ft.

RCRA NonGen / NLR:

Date form received by agency:	2018-01-23 00:00:00.0
Facility name:	ADVANCE DESIGN MFG LLC
Facility address:	2300 WILBUR AVE ANTIOCH, CA 94509
EPA ID:	CAL000433315

ADVANCE DESIGN MFG LLC (Continued) **1024864751**

Contact: JASON LEFFINGWELL
Contact address: 2300 WILBUR AVE
ANTIOCH, CA 94509
Contact country: Not reported
Contact telephone: 800-690-0002
Contact email: JASON@SNEESEGUARD.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ADVANCE DESIGN MFG LLC
Owner/operator address: 2300 WILBUR AVE
ANTIOCH, CA 94509
Owner/operator country: Not reported
Owner/operator telephone: 800-690-0002
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: JASON LEFFINGWELL
Owner/operator address: 2300 WILBUR AVE
ANTIOCH, CA 94509
Owner/operator country: Not reported
Owner/operator telephone: 800-690-0002
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

F24
SSW
1/8-1/4
0.250 mi.
1318 ft.

JOSE AGUIAR REIS
RT1 BOX 447-B
ANTIOCH, CA 94509

Site 1 of 4 in cluster F

RCRA NonGen / NLR **1000195191**
CAD981982671

Relative:
Higher

Actual:
40 ft.

RCRA NonGen / NLR:

Date form received by agency:	1987-04-23 00:00:00.0
Facility name:	JOSE AGUIAR REIS
Facility address:	RT1 BOX 447-B ANTIOCH, CA 94509
EPA ID:	CAD981982671
Contact:	ENVIRONMENTAL MANAGER
Contact address:	RT1 BOX 447-B ANTIOCH, CA 94509
Contact country:	US
Contact telephone:	415-778-7347
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	REIS ALFREDO CO
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

JOSE AGUIAR REIS (Continued) **1000195191**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

F25 **LLOYD'S HOLIDAY HARBOR** **LUST** **S110654019**
SSW **RTE 1** **N/A**
1/4-1/2 **ANTIOCH, CA 94509**
0.262 mi.
1381 ft. **Site 2 of 4 in cluster F**

Relative:
Higher

Actual:
40 ft.

LUST:

Name:	LLOYD'S HOLIDAY HARBOR
Address:	RTE 1
City,State,Zip:	ANTIOCH, CA 94509
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300786
Global Id:	T0601300786
Latitude:	38.0074134
Longitude:	-121.7717579
Status:	Completed - Case Closed
Status Date:	12/02/1997
Case Worker:	VJF
RB Case Number:	070067
Local Agency:	CONTRA COSTA COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0601300786
Contact Type:	Local Agency Caseworker
Contact Name:	MARC ZOMORODI
Organization Name:	CONTRA COSTA COUNTY
Address:	Not reported
City:	r5 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0601300786
Contact Type:	Regional Board Caseworker
Contact Name:	VERA J. FISCHER
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	vera.fischer@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0601300786
Action Type:	Other

LLOYD'S HOLIDAY HARBOR (Continued) **S110654019**

Date: 10/31/1991
Action: Leak Reported

Global Id: T0601300786
Action Type: Other
Date: 10/15/1991
Action: Leak Discovery

LUST:
Global Id: T0601300786
Status: Open - Case Begin Date
Status Date: 10/15/1991

Global Id: T0601300786
Status: Open - Site Assessment
Status Date: 10/15/1991

Global Id: T0601300786
Status: Open - Site Assessment
Status Date: 10/31/1991

Global Id: T0601300786
Status: Completed - Case Closed
Status Date: 12/02/1997

F26 **LAURITZEN YACHT HARBOR** **LUST** **S110654018**
SSW **RTE 1** **N/A**
1/4-1/2 **ANTIOCH, CA 94509**
0.262 mi.
1381 ft. **Site 3 of 4 in cluster F**

Relative:
Higher

Actual:
40 ft.

LUST:
Name: LAURITZEN YACHT HARBOR
Address: RTE 1
City,State,Zip: ANTIOCH, CA 94509
Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300777
Global Id: T0601300777
Latitude: 38.0074134
Longitude: -121.7717579
Status: Completed - Case Closed
Status Date: 12/02/1997
Case Worker: VJF
RB Case Number: 070054
Local Agency: CONTRA COSTA COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0601300777
Contact Type: Local Agency Caseworker
Contact Name: BRUCE BENIKI
Organization Name: CONTRA COSTA COUNTY

LAURITZEN YACHT HARBOR (Continued) **S110654018**

Address: Not reported
City: r5 UNKNOWN
Email: Not reported
Phone Number: Not reported

Global Id: T0601300777
Contact Type: Regional Board Caseworker
Contact Name: VERA J. FISCHER
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: vera.fischer@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0601300777
Action Type: Other
Date: 12/28/1987
Action: Leak Stopped

Global Id: T0601300777
Action Type: Other
Date: 01/02/1988
Action: Leak Reported

Global Id: T0601300777
Action Type: ENFORCEMENT
Date: 04/11/2003
Action: Technical Correspondence / Assistance / Other

Global Id: T0601300777
Action Type: ENFORCEMENT
Date: 12/18/2002
Action: Technical Correspondence / Assistance / Other

Global Id: T0601300777
Action Type: ENFORCEMENT
Date: 12/19/2002
Action: Technical Correspondence / Assistance / Other

Global Id: T0601300777
Action Type: ENFORCEMENT
Date: 05/19/2003
Action: Technical Correspondence / Assistance / Other

Global Id: T0601300777
Action Type: ENFORCEMENT
Date: 11/20/2002
Action: Technical Correspondence / Assistance / Other

Global Id: T0601300777
Action Type: Other
Date: 12/11/1987
Action: Leak Discovery

LUST:

LAURITZEN YACHT HARBOR (Continued) **S110654018**

Global Id: T0601300777
Status: Open - Case Begin Date
Status Date: 12/11/1987

Global Id: T0601300777
Status: Open - Site Assessment
Status Date: 01/02/1988

Global Id: T0601300777
Status: Completed - Case Closed
Status Date: 12/02/1997

F27 **LAURITZEN YACHT HARBOR** **LUST** **S101294049**
SSW **RTE 1** **HIST CORTESE** **N/A**
1/4-1/2 **ANTIOCH, CA 94509** **CERS**
0.262 mi.
1381 ft. **Site 4 of 4 in cluster F**

Relative:
Higher

Actual:
40 ft.

LUST REG 5:
Name: LAURITZEN YACHT HARBOR
Address: RTE 1
City: ANTIOCH
Region: 5
Status: Case Closed
Case Number: 070054
Case Type: Soil only
Substance: GASOLINE
Staff Initials: PMV
Lead Agency: Regional
Program: LUST
MTBE Code: N/A

Name: LLOYD'S HOLIDAY HARBOR
Address: RTE 1
City: ANTIOCH
Region: 5
Status: Case Closed
Case Number: 070067
Case Type: Soil only
Substance: GASOLINE
Staff Initials: PMV
Lead Agency: Regional
Program: LUST
MTBE Code: N/A

HIST CORTESE:
edr_fname: LAURITZEN YACHT HARBOR
edr_fadd1: RTE 1
City,State,Zip: ANTIOCH, CA 94509
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 070054

edr_fname: LLOYD'S HOLIDAY HARBOR
edr_fadd1: RTE 1

LAURITZEN YACHT HARBOR (Continued) **S101294049**

City,State,Zip: ANTIOCH, CA 94509
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 070067

CERS:
Name: LAURITZEN YACHT HARBOR
Address: RTE 1
City,State,Zip: ANTIOCH, CA 94509
Site ID: 187728
CERS ID: T0601300777
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: BRUCE BENIKI - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: r5 UNKNOWN
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: VERA J. FISCHER - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

G28 **WEST MILL** **ENVIROSTOR** **S104573835**
West **2301 WILBUR AVENUE** **VCP** **N/A**
1/4-1/2 **ANTIOCH, CA 94509** **ENF**
0.295 mi. **CONTRA COSTA CO. SITE LIST**
1558 ft. **Site 1 of 2 in cluster G** **CIWQS**
CERS

Relative:
Higher

Actual:
31 ft.

ENVIROSTOR:
Name: WEST MILL
Address: 2301 WILBUR AVENUE
City,State,Zip: ANTIOCH, CA 94509
Facility ID: 7260002
Status: Certified
Status Date: 06/29/2011
Site Code: 201535
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 27.7
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency: SMBRP
Program Manager: Megan Indermill

WEST MILL (Continued) **S104573835**

Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Assembly:	11
Senate:	07
Special Program:	Designation of Single Agency
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	38.01313
Longitude:	-121.7762
APN:	051-020-006-6, 051020006
Past Use:	MANUFACTURING - PAPER, MANUFACTURING - PAPER
Potential COC:	Polychlorinated biphenyls (PCBs TPH-diesel TPH-MOTOR OIL
Confirmed COC:	TPH-diesel TPH-MOTOR OIL Polychlorinated biphenyls (PCBs
Potential Description:	SOIL, SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Name:	WEST MILL
Address:	2301 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509
Facility ID:	7260002
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	27.7
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Megan Indermill
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Site Code:	201535
Assembly:	11
Senate:	07
Special Programs Code:	Designation of Single Agency
Status:	Certified
Status Date:	06/29/2011

WEST MILL (Continued) **S104573835**

Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	38.01313 / -121.7762
APN:	051-020-006-6, 051020006
Past Use:	MANUFACTURING - PAPER, MANUFACTURING - PAPER
Potential COC:	30018, 30024, 3002502
Confirmed COC:	30024,3002502,, ,30018
Potential Description:	SOIL, SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENF:

Name:	ANTIOCH PULP & PAPER MILL
Address:	2301 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	205918
Agency Name:	Gaylord Container Corporation
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.012304
Place Longitude:	-121.77522
SIC Code 1:	2631
SIC Desc 1:	Paperboard Mills
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:	15

WEST MILL (Continued) **S104573835**

Threat To Water Quality:	2
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Process waste, NEC
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:	5B072039001
Reg Measure Id:	146582
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	97-027
Npdes# CA#:	CA0004847
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	02/28/1997
Effective Date:	02/28/1997
Expiration/Review Date:	02/01/2002
Termination Date:	04/24/2003
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:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	246529
Region:	Not reported
Order / Resolution Number:	R5-2002-0509
Enforcement Action Type:	Admin Civil Liability
Effective Date:	07/10/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	MMPC R5-2002-0509 for Gaylord Container Corp, Antioch Pulp & Paper Mill
Description:	MMP Complaint of $6,000 issued for Mandatory minimum penalties for violations of effluent limits in Order No. 97-027. 2 serious violations.
Program:	NPDESWW
Latest Milestone Completion Date:	7/10/2003
# Of Programs1:	1

WEST MILL (Continued) **S104573835**

Total Assessment Amount:	6000
Initial Assessed Amount:	0
Liability $ Amount:	6000
Project $ Amount:	0
Liability $ Paid:	6000
Project $ Completed:	0
Total $ Paid/Completed Amount:	6000

Name:	ANTIOCH PULP & PAPER MILL
Address:	2301 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	205918
Agency Name:	Gaylord Container Corporation
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.012304
Place Longitude:	-121.77522
SIC Code 1:	2631
SIC Desc 1:	Paperboard Mills
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:	15
Threat To Water Quality:	2
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Process waste, NEC
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:	5B072039001
Reg Measure Id:	146582
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	97-027
Npdes# CA#:	CA0004847
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported

WEST MILL (Continued) **S104573835**

301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	02/28/1997
Effective Date:	02/28/1997
Expiration/Review Date:	02/01/2002
Termination Date:	04/24/2003
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:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	232399
Region:	Not reported
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	05/10/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	05/10/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	VER 05/10/2000 for Gaylord Container Corp, Antioch Pulp & Paper Mill
Description:	Discussed with Diane Hogan 1 May 2000: corrective action, engineering study of surge basin, and need for additional capacity (will provide additional information).
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	ANTIOCH PULP & PAPER MILL
Address:	2301 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	205918
Agency Name:	Gaylord Container Corporation
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.012304
Place Longitude:	-121.77522
SIC Code 1:	2631

WEST MILL (Continued) **S104573835**

SIC Desc 1:	Paperboard Mills
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:	15
Threat To Water Quality:	2
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Process waste, NEC
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:	5B072039001
Reg Measure Id:	146582
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	97-027
Npdes# CA#:	CA0004847
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	02/28/1997
Effective Date:	02/28/1997
Expiration/Review Date:	02/01/2002
Termination Date:	04/24/2003
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:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	231197
Region:	Not reported
Order / Resolution Number:	Not reported
Enforcement Action Type:	Notice of Violation
Effective Date:	07/25/2000

WEST MILL (Continued) **S104573835**

Adoption/Issuance Date:	07/25/2000
Achieve Date:	Not reported
Termination Date:	07/25/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV 07/25/2000 for Gaylord Container Corp, ANTIOCH PULP & PAPER MILL
Description:	NOV sent with inspection report on 25 July 2000 addressing findings and corrective action.
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	ANTIOCH PULP & PAPER MILL
Address:	2301 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	205918
Agency Name:	Gaylord Container Corporation
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.012304
Place Longitude:	-121.77522
SIC Code 1:	2631
SIC Desc 1:	Paperboard Mills
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:	15
Threat To Water Quality:	2
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDESWW
Program Category1:	NPDESWW

WEST MILL (Continued) **S104573835**

Program Category2:	NPDESWW
# Of Programs:	1
WDID:	5B072039001
Reg Measure Id:	140457
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	84-015
Npdes# CA#:	CA0004847
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	12/06/2016
Effective Date:	01/20/1984
Expiration/Review Date:	09/01/1990
Termination Date:	06/27/1991
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:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	223810
Region:	Not reported
Order / Resolution Number:	R5-1989-0514
Enforcement Action Type:	Admin Civil Liability
Effective Date:	08/16/1989
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	11/08/1989
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	ACLC R5-1989-0514 for Gaylord Container Corp, Antioch Pulp & Paper Mill
Description:	$50000 ACL FOR BOD VIOLATIONS IN DISCH TO SAN JOAQUIN RIVER. EO Reduced amount to $40,000.
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	40000
Initial Assessed Amount:	50000
Liability $ Amount:	40000
Project $ Amount:	0
Liability $ Paid:	40000
Project $ Completed:	0
Total $ Paid/Completed Amount:	40000
Name:	ANTIOCH PULP & PAPER MILL
Address:	2301 WILBUR

WEST MILL (Continued) **S104573835**

City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	205918
Agency Name:	Gaylord Container Corporation
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.012304
Place Longitude:	-121.77522
SIC Code 1:	2631
SIC Desc 1:	Paperboard Mills
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:	15
Threat To Water Quality:	2
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Process waste, NEC
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:	5B072039001
Reg Measure Id:	132383
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	R5-2003-0073
Npdes# CA#:	CA0004847
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/23/2006
Effective Date:	04/25/2003
Expiration/Review Date:	04/01/2008
Termination Date:	06/22/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	6/23/2006

WEST MILL (Continued) **S104573835**

WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	324895
Region:	Not reported
Order / Resolution Number:	R5-2007-0506
Enforcement Action Type:	Admin Civil Liability
Effective Date:	03/21/2007
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	04/09/2007
ACL Issuance Date:	03/21/2007
EPL Issuance Date:	Not reported
Status:	Historical
Title:	MMPC R5-2007-0506 for Gaylord Container Corp
Description:	MMP Complaint issued in the amount of $48,000 for failure to comply with effluent limitations. Discharger committed 5 serious violations and 11 non-serious violations from 12/1/01 to 3/31/06. Discharger paid 48,000 to CAA on 4/10/07.
Program:	NPDESWW
Latest Milestone Completion Date:	4/9/2007
# Of Programs1:	1
Total Assessment Amount:	48000
Initial Assessed Amount:	48000
Liability $ Amount:	48000
Project $ Amount:	0
Liability $ Paid:	48000
Project $ Completed:	0
Total $ Paid/Completed Amount:	48000

Name:	ANTIOCH PULP & PAPER MILL
Address:	2301 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	205918
Agency Name:	Gaylord Container Corporation
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.012304
Place Longitude:	-121.77522
SIC Code 1:	2631
SIC Desc 1:	Paperboard Mills
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

WEST MILL (Continued) **S104573835**

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:	15
Threat To Water Quality:	2
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Process waste, NEC
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:	5B072039001
Reg Measure Id:	132383
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	R5-2003-0073
Npdes# CA#:	CA0004847
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/23/2006
Effective Date:	04/25/2003
Expiration/Review Date:	04/01/2008
Termination Date:	06/22/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	6/23/2006
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	253009
Region:	Not reported
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	08/18/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	08/18/2004
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	OC 08/18/2004 for Antioch Pulp & Paper Mill
Description:	Discussed with consultant for discharger NIcholas Loizeaux

WEST MILL (Continued) **S104573835**

	and Facility Mngr Henry Thatcher regarding violations of the Al and Fe effluent limitations in May and the Al and copper violations in June and possiblecorrective action needed.
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Name:	ANTIOCH PULP & PAPER MILL
Address:	2301 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	205918
Agency Name:	Gaylord Container Corporation
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.012304
Place Longitude:	-121.77522
SIC Code 1:	2631
SIC Desc 1:	Paperboard Mills
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:	15
Threat To Water Quality:	2
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Process waste, NEC
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:	5B072039001
Reg Measure Id:	132383
Reg Measure Type:	NPDES Permits

WEST MILL (Continued) **S104573835**

Region:	Not reported
Order #:	R5-2003-0073
Npdes# CA#:	CA0004847
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/23/2006
Effective Date:	04/25/2003
Expiration/Review Date:	04/01/2008
Termination Date:	06/22/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	6/23/2006
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	252740
Region:	Not reported
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	09/07/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	09/07/2004
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	OC 09/07/2004 for Antioch Pulp & Paper Mill
Description:	Discussed with consultant, legal counsel and Facility Mngr Henry Thatcher regarding violations of the Al, Fe, Cu, Pb and Mn effluent limitations in July and that the problem may have been solved after changing sample port line.
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

CONTRA COSTA CO. SITE LIST:

Name:	FORESTAR (USA) REAL ESTATE GROUP INC
Address:	2301 WILBUR AVE
City:	ANTIOCH
Facility ID:	FA0031802
Billing Status:	INACTIVE, NON-BILLABLE

WEST MILL (Continued) **S104573835**

Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >10K-100K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 716006

Name: FORESTAR (USA) REAL ESTATE GROUP INC
Address: 2301 WILBUR AVE
City: ANTIOCH
Facility ID: FA0031802
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: 250 - <500 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 716006

Name: FORESTAR (USA) REAL ESTATE GROUP INC
Address: 2301 WILBUR AVE
City: ANTIOCH
Facility ID: FA0031802
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: UNDERGROUND STORAGE TANK SITE
Region: CONTRA COSTA
Cupa Number: 716006

CIWQS:
Name: ANTIOCH PULP & PAPER MILL
Address: 2301 WILBUR
City,State,Zip: ANTIOCH, CA 94509
Agency: Gaylord Container Corporation
Agency Address: Po Box 10, Antioch, CA 94509
Place/Project Type: Other
SIC/NAICS: 2631
Region: 5S
Program: NPDESWW
Regulatory Measure Status: Historical
Regulatory Measure Type: NPDES Permit
Order Number: R5-2003-0073
WDID: 5B072039001
NPDES Number: CA0004847
Adoption Date: 04/25/2003
Effective Date: 04/25/2003
Termination Date: 06/22/2006
Expiration/Review Date: 04/01/2008
Design Flow: 15
Major/Minor: Major
Complexity: A
TTWQ: 2
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 38.012304
Longitude: -121.77522

CERS:
Name: ANTIOCH PULP & PAPER MILL
Address: 2301 WILBUR

WEST MILL (Continued) **S104573835**

City,State,Zip: ANTIOCH, CA 94509
Site ID: 348648
CERS ID: 205918
CERS Description: NPDES Wastewater and Stormwater

Violations:
Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 11-05-2004
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Based on a sample taken on September 23, 2004, the Discharger exceeded the intake credit 4-day avg effluent limit for Al of 286 ug/l with a result of 350 ug/l (not a serious violation).
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 11-05-2004
Citation: California Water Code
Violation Description: Not reported
Violation Notes: For the month of September 2004, the discharge exceeded the monthly avg intake credit eff limit for EC of 2407 umhos/cm with a monthly avg of 2890 umhos/cm. (not a serious violation).
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 08-16-2004
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Based on the 6/17/04 sample, the Discharger exceeded the intake credit 4-day avg eff limitation for Al of 704 ug/l (10% over influent) with a result of 820 ug/l (not a serious violation). Also causing exceedance of the intake credit 4-day avg mass limit.
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 01-06-2005
Citation: California Water Code
Violation Description: Not reported
Violation Notes: For the month of October 2004, the discharge exceeded the monthly avg intake credit eff limit for EC of 2473 umhos/cm with a monthly avg of 2865 umhos/cm. (not a serious violation).
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 05-03-2000

WEST MILL (Continued) **S104573835**

Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	3 May 2000: An estimated 3,000 gallons of wastewater was released to the San Joaquin River due to two plugged lift station pumps. Overflow of wastes to surface waters at any time is prohibited.
Violation Division:	Water Boards
Violation Program:	NPDESWW
Violation Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Violation Date:	10-25-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	For the month of August 2004, the discharge exceeded the monthly avg intake credit eff limit for EC of 1474 umhos/cm with a monthly avg of 1752 umhos/cm.l (not a serious violation).
Violation Division:	Water Boards
Violation Program:	NPDESWW
Violation Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Violation Date:	08-09-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Based on the May 27, 2004 sample, for the month of May the Discharger exceeded the monthly avg effluent limitation for iron of 300 ug/l with a result of 630 ug/l (a serious violation). No exceedance of the monthly avg mass loading limitation.
Violation Division:	Water Boards
Violation Program:	NPDESWW
Violation Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Violation Date:	08-09-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Based on a single sample taken on May 27, 2004, the Discharger exceeded the 4-day avg effluent limitation for Aluminum of 87 ug/l with a result of 360 ug/l (a serious violation). This also caused an exceedance of the 4-day avg mass loading limitation.
Violation Division:	Water Boards
Violation Program:	NPDESWW
Violation Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Violation Date:	09-03-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	For the month of July 2004, the dischargel exceeded the monthly avg intake credit eff limit for EC of 1317 umhos/cm with a monthly avg of 1494 umhos/cm.l (not a serious violation).
Violation Division:	Water Boards
Violation Program:	NPDESWW

WEST MILL (Continued) **S104573835**

Violation Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Violation Date:	02-27-2002
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Effluent exceeded daily max limitation for settleable solids of 0.5 ml/l with a result of 44 ml/l. therefore, also for the month of December 2001 the monthly average limit of 0.1ml/l was exceeded with an average of 8.8 ml/l
Violation Division:	Water Boards
Violation Program:	NPDESWW
Violation Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Violation Date:	02-27-2002
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Effluent exceeded daily max limitation for settleable solids of 0.5 ml/l with a result of 44 ml/l
Violation Division:	Water Boards
Violation Program:	NPDESWW
Violation Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Violation Date:	03-16-1999
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	MONITORING REPORT RESULTS SHOWED BOD VIOLATIONS FOR FEB, JUNE, OCT, AND NOV. 98 AND MAR, 99.
Violation Division:	Water Boards
Violation Program:	NPDESWW
Violation Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Violation Date:	01-06-2005
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Based on a sample taken in October 14, 2004, the Discharger exceeded the intake credit monthly avg effluent limit for iron of 561 ug/l with a result of 570 ug/l (not a serious violation). Causing exceedance of the monthly avg mass loading limitation.
Violation Division:	Water Boards
Violation Program:	NPDESWW
Violation Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Violation Date:	11-05-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Based on a sample taken on September 23, 2004, the Discharger exceeded the intake credit monthly avg effluent limit for chloride of 473 mg/l

WEST MILL (Continued) **S104573835**

with a result of 490 mg/l (not a serious violation).
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 11-05-2004
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Based on a sample taken on September 23, 2004, the Discharger exceeded the intake credit 4-day avg effluent mass loading limit for Al of 28.6 lbs/dayl with a result of 35 lbs/day (not a serious violation).
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 04-17-2000
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Permit indicates that SW is part of the Gaylord's combined system and is treated prior to discharge. SW runoff shall not be bypassed to SW without treatment. <CR>10 February 2000: Discharger released an estimated 2,000 gallons untreated SW with treated W
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 02-07-1994
Citation: California Water Code
Violation Description: Not reported
Violation Notes: SPILL OF UNKNOWN QUANTITY OF WW TO SAN JOAQUIN RIVER. FLOAT AT WETWELL DID NOT FUNCTION AND PUMPS/ALARM NOT TURNED ON.
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 11-05-2004
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Based on a sample taken on September 23, 2004, the Discharger exceeded the intake credit monthly avg effluent mass loading limit for TDS of 80,000 lbs/dayl with a result of 107,000 lbs/day (not a serious violation).
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 11-05-2004

WEST MILL (Continued) **S104573835**

Citation: California Water Code
Violation Description: Not reported
Violation Notes: Based on a sample taken on September 23, 2004, the Discharger exceeded the intake credit monthly avg effluent mass loading limit for chloride of 52,900 lbs/day with a result of 54,800 lbs/day (not a serious violation).
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 11-05-2004
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Based on a sample taken on September 23, 2004, the Discharger exceeded the intake credit monthly avg effluent limit for TDS of 715 mg/l with a result of 954 mg/l (not a serious violation).
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Violation Date: 07-19-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: On 04/08/02 Discharger violated Discharge prohibition A.1 by having a 300 gallon spill of process wastewater enter the San Joquin river at a non-permit location.
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Enforcement Action:
Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Site Address: 2301 WILBUR
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 03-21-2007
Enf Action Type: Administrative Enforcement with Penality
Enf Action Description: Administrative Enforcement with Civil Liability (Penality)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Site ID: 348648
Site Name: Antioch Pulp & Paper Mill
Site Address: 2301 WILBUR
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 05-10-2000
Enf Action Type: Oral Communication
Enf Action Description: Oral Communication
Enf Action Notes: Not reported

WEST MILL (Continued) **S104573835**

Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Site Address:	2301 WILBUR
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	07-10-2002
Enf Action Type:	Administrative Enforcement with Penality
Enf Action Description:	Administrative Enforcement with Civil Liability (Penality)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Site Address:	2301 WILBUR
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	07-25-2000
Enf Action Type:	Notice of Violation (Water)
Enf Action Description:	Notice of Violation Letter (Informal)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Site Address:	2301 WILBUR
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	08-16-1989
Enf Action Type:	Administrative Enforcement with Penality
Enf Action Description:	Administrative Enforcement with Civil Liability (Penality)
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS
Site ID:	348648
Site Name:	Antioch Pulp & Paper Mill
Site Address:	2301 WILBUR
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	08-18-2004
Enf Action Type:	Oral Communication
Enf Action Description:	Oral Communication
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS
Site ID:	348648

WEST MILL (Continued) **S104573835**

Site Name:	Antioch Pulp & Paper Mill
Site Address:	2301 WILBUR
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	09-07-2004
Enf Action Type:	Oral Communication
Enf Action Description:	Oral Communication
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS

G29 **GAYLORD CONTAINER CORPORATION** **SEMS-ARCHIVE** **1015732679**
West **2301 WILBUR AVENUE** **RCRA-SQG** **CAD009148180**
1/4-1/2 **ANTIOCH, CA 94509** **PADS**
0.295 mi. **FINDS**
1558 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
31 ft.

SEMS Archive:

Site ID:	0901170
EPA ID:	CAD009148180
Cong District:	07
FIPS Code:	06013
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	09
Site ID:	0901170
EPA ID:	CAD009148180
Site Name:	GAYLORD CONTAINER CORP EAST PLANT
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1985-04-01 06:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0901170
EPA ID:	CAD009148180
Site Name:	GAYLORD CONTAINER CORP EAST PLANT
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1979-12-01 05:00:00
Finish Date:	1979-12-01 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

GAYLORD CONTAINER CORPORATION (Continued) **1015732679**

Region:	09
Site ID:	0901170
EPA ID:	CAD009148180
Site Name:	GAYLORD CONTAINER CORP EAST PLANT
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1985-04-01 06:00:00
Qual:	N
Current Action Lead:	EPA Perf

RCRA-SQG:

Date form received by agency:	2004-03-26 00:00:00.0
Facility name:	GAYLORD CONTAINER CORPORATION
Facility address:	2301 WILBUR AVENUE ANTIOCH, CA 94509
EPA ID:	CAD009148180
Mailing address:	P.O. BOX 10 ANTIOCH, CA 94509
Contact:	HENRY THATCHER
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	925-779-3207
Contact email:	HTHATCH@ICCNET.COM
EPA Region:	09
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TEMPLE-INLAND CORPORATION
Owner/operator address:	P.O. BOX 10 ANTIOCH, CA 94509
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	2002-04-01 00:00:00.0
Owner/Op end date:	Not reported
Owner/operator name:	GAYLORD CONTAINER CORPORATION
Owner/operator address:	Not reported Not reported

GAYLORD CONTAINER CORPORATION (Continued) **1015732679**

Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 1986-01-01 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2004-03-26 00:00:00.0
Site name: GAYLORD CONTAINER CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 1998-02-13 00:00:00.0
Site name: GAYLORD CONTAINER
Classification: Small Quantity Generator

Date form received by agency: 1986-10-27 00:00:00.0
Site name: GAYLORD CONTAINER
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

GAYLORD CONTAINER CORPORATION (Continued) **1015732679**

. Waste code: D011
. Waste name: SILVER

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 1991-12-06 00:00:00.0
Date achieved compliance: 1992-03-03 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

GAYLORD CONTAINER CORPORATION (Continued) **1015732679**

Evaluation Action Summary:
Evaluation date: 1991-09-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1991-09-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1992-03-03 00:00:00.0
Evaluation lead agency: EPA

PADS:
EPAID: CAD009148180
Facility name: GAYLORD CONTAINER
Facility Address: 2301 WILBUR AVE
ANTIOCH, CA 94509
Facility country: US
Generator: Yes
Storer: No
Transporter: No
Disposer: No
Research facility: No
Smelter: No
Facility owner name: GAYLORD CONTAINER CORP.
Contact title: Not reported
Contact name: DIANA J HOGAN
Contact tel: 925-779-3200
Contact extension: Not reported
Contact Email: Not reported
Mailing address: PO BOX 10
ANTIOCH, CA 94509
Mailing country: US
Cert. date: 12/07/1998

FINDS:

Registry ID: 110055655385

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

H30 **PERFORMANCE ABATEMENT SERVICES OF CALIF** **SEMS-ARCHIVE** **1015732945**
East **3201 WILBUR AVE** **CORRACTS** **CAT080011489**
1/4-1/2 **ANTIOCH, CA 94509** **US FIN ASSUR**
0.349 mi. **2020 COR ACTION**
1841 ft. **Site 1 of 4 in cluster H** **FINDS**

Relative: SEMS Archive:
Lower Site ID: 0902670
EPA ID: CAT080011489
Actual: Cong District: 07
15 ft.

PERFORMANCE ABATEMENT SERVICES OF CALIF (Continued) **1015732945**

FIPS Code: 06013
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 09
Site ID: 0902670
EPA ID: CAT080011489
Site Name: PG&E CONTRA COSTA POWER PLT
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: Not reported
Finish Date: 1986-12-01 05:00:00
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902670
EPA ID: CAT080011489
Site Name: PG&E CONTRA COSTA POWER PLT
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 2
Start Date: Not reported
Finish Date: 1991-10-11 04:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902670
EPA ID: CAT080011489
Site Name: PG&E CONTRA COSTA POWER PLT
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1991-10-11 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0902670
EPA ID: CAT080011489
Site Name: PG&E CONTRA COSTA POWER PLT
NPL: N
FF: N
OU: 00

PERFORMANCE ABATEMENT SERVICES OF CALIF (Continued) **1015732945**

Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1986-12-01 05:00:00
Qual: L
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902670
EPA ID: CAT080011489
Site Name: PG&E CONTRA COSTA POWER PLT
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1979-10-01 04:00:00
Finish Date: 1979-10-01 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902670
EPA ID: CAT080011489
Site Name: PG&E CONTRA COSTA POWER PLT
NPL: N
FF: N
OU: 00
Action Code: AA
Action Name: RCRA F A
SEQ: 1
Start Date: Not reported
Finish Date: 1986-09-25 04:00:00
Qual: Not reported
Current Action Lead: Fed Fac

CORRACTS:
EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2016-10-25 00:00:00.0
Action: CA200 - RFI Approved
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2016-10-04 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2015-11-30 00:00:00.0
Action: CA190 - RFI Report Received
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation

PERFORMANCE ABATEMENT SERVICES OF CALIF (Continued) **1015732945**

Original schedule date: 2015-11-23 00:00:00.0
Schedule end date: 2015-12-02 00:00:00.0

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2015-06-19 00:00:00.0
Action: CA170 - RFI Supplemental Information Deemed Satisfactory
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2015-06-24 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2015-05-08 00:00:00.0
Action: CA160 - RFI Supplemental Information Received
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2015-04-01 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2015-05-01 00:00:00.0
Action: CA180 - RFI Supplemental Implementation Begun
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2014-10-13 00:00:00.0
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2014-10-11 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2014-01-14 00:00:00.0
Action: CA120 - RFI Workplan Modification Requested By Agency
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2013-12-01 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2014-01-14 00:00:00.0

PERFORMANCE ABATEMENT SERVICES OF CALIF (Continued) **1015732945**

Action: CA140 - RFI Workplan Notice Of Deficiency Issued
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2013-12-01 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2013-12-31 00:00:00.0
Action: CA180 - RFI Supplemental Implementation Begun
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2013-12-19 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2013-12-31 00:00:00.0
Action: CA180 - RFI Supplemental Implementation Begun
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2013-11-01 00:00:00.0
Action: CA110 - RFI Workplan Received
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2013-10-01 00:00:00.0
Schedule end date: 2013-11-01 00:00:00.0

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2013-08-29 00:00:00.0
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2013-08-30 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2013-04-15 00:00:00.0
Action: CA100 - RFI Imposition
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2013-04-15 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489

PERFORMANCE ABATEMENT SERVICES OF CALIF (Continued) **1015732945**

EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2013-03-22 00:00:00.0
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2013-04-01 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2012-11-20 00:00:00.0
Action: CA140 - RFI Workplan Notice Of Deficiency Issued
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2012-11-28 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2012-11-20 00:00:00.0
Action: CA120 - RFI Workplan Modification Requested By Agency
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2012-11-28 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2012-10-29 00:00:00.0
Action: CA110 - RFI Workplan Received
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 2012-12-01 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 1995-06-02 00:00:00.0
Action: CA999NF - Corrective Action Process Terminated, No Further Action
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 1995-07-02 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 1989-09-15 00:00:00.0
Action: CA100 - RFI Imposition
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation

PERFORMANCE ABATEMENT SERVICES OF CALIF (Continued) **1015732945**

Original schedule date: 1989-09-15 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 1988-05-18 00:00:00.0
Action: CA999RM - Corrective Action Process Terminated, Remedial Activities Completed
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 1988-06-17 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 1986-09-24 00:00:00.0
Action: CA050 - RFA Completed
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 1986-09-24 00:00:00.0
Schedule end date: Not reported

EPA ID: CAT080011489
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 1986-09-24 00:00:00.0
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 1986-09-24 00:00:00.0
Schedule end date: Not reported

US FIN ASSUR:
EPA ID: CAT080011489
County: Not reported
Mechanism type: I
Mechanism Type Description: INSURANCE
Cost estimate: 8000000
Face value: 8085049
Effective date: 2009-04-02 00:00:00
Provider: AEGISL
EPA region: 9

EPA ID: CAT080011489
County: Not reported
Mechanism type: I
Mechanism Type Description: INSURANCE
Cost estimate: 85049
Face value: 8085049
Effective date: 2009-04-02 00:00:00
Provider: AEGISL
EPA region: 9

2020 COR ACTION:

PERFORMANCE ABATEMENT SERVICES OF CALIF (Continued) **1015732945**

EPA ID: CAT080011489
Region: 9
Action: Not reported

FINDS:

Registry ID: 110020509136

Environmental Interest/Information System
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Registry ID: 110020509145

Environmental Interest/Information System
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

H31 **CONTRA COSTA POWER PLT ANTIOCH** **AST** **S102509496**
East **PO BOX 249** **WMUDS/SWAT** **N/A**
1/4-1/2 **ANTIOCH CA, CA 94509** **EMI**
0.349 mi. **HWP**
1841 ft. **Site 2 of 4 in cluster H** **WDS**

Relative: **Lower**
Actual: **15 ft.**

AST:

Name:	CONTRA COSTA GENERATING STATION
Address:	3201 WILBUR AVE
City/Zip:	ANTIOCH,94509
Certified Unified Program Agencies:	Not reported
Owner:	NRG Delta, LLC
Total Gallons:	Not reported
CERSID:	10478107
Facility ID:	07-000-735376
Business Name:	Contra Costa Generating Station
Phone:	925-779-6676
Fax:	925-779-6679
Mailing Address:	P.O. Box 1687
Mailing Address City:	Antioch
Mailing Address State:	CA
Mailing Address Zip Code:	94509
Operator Name:	NRG Delta, LLC
Operator Phone:	925-779-6665
Owner Phone:	925-779-6586
Owner Mail Address:	3201-A Wilbur Avenue
Owner State:	CA
Owner Zip Code:	94509
Owner Country:	United States

CONTRA COSTA POWER PLT ANTIOCH (Continued) **S102509496**

Property Owner Name:	NRG Delta, LLC
Property Owner Phone:	925.779.6665
Property Owner Mailing Address:	3201-A Wilbur Avenue
Property Owner City:	Antioch
Property Owner Stat :	CA
Property Owner Zip Code:	94509
Property Owner Country:	United States
EPAID:	CAT080011489

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.
Primary Waste:	NONCON
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	CA0004863
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	SOUTHERN ENERGY DELTA, LLC
Agency Department:	Not reported
Agency Address:	P.O. BOX 249
Agency City,St,Zip:	ANTIOCH CA 94509
Agency Contact:	STEVE GALLO
Agency Telephone:	9254273500
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	5S
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 Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	4911
Secondary SIC:	Not reported
Comments:	Not reported

CONTRA COSTA POWER PLT ANTIOCH (Continued) **S102509496**

Last Facility Editors: Not reported
Waste Discharge System: True
Solid Waste Assessment Test Program: False
Toxic Pits Cleanup Act Program: True
Resource Conservation Recovery Act: True
Department of Defence: False
Solid Waste Assessment Test Program: Not reported
Threat to Water Quality: Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Sub Chapter 15: True
Regional Board Project Officer: RJ
Number of WMUDS at Facility: 1
Section Range: Not reported
RCRA Facility: Yes
Waste Discharge Requirements: A
Self-Monitoring Rept. Frequency: Quarterly Submittal
Waste Discharge System ID: 5B072014008
Solid Waste Information ID: Not reported

EMI:
Name: GENON DELTA LLC, CONTRA COSTA
Address: 3201 WILBUR AVENUE
City,State,Zip: ANTIOCH, CA 94509
Year: 2012
County Code: 7
Air Basin: SF
Facility ID: 18
Air District Name: BA
SIC Code: 4911
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4.011
Reactive Organic Gases Tons/Yr: 2.1854655
Carbon Monoxide Emissions Tons/Yr: 43.729
NOX - Oxides of Nitrogen Tons/Yr: 7.499
SOX - Oxides of Sulphur Tons/Yr: 0.322
Particulate Matter Tons/Yr: 3.9610737705
Part. Matter 10 Micrometers and Smllr Tons/Yr: 3.961

HWP:
Name: CONTRA COSTA GENERATING STATION
Address: 3201 WILBUR AVE
City,State,Zip: ANTIOCH, CA 945090000
EPA Id: CAT080011489
Cleanup Status: CLOSED
Latitude: 38.01703
Longitude: -121.7646
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported

CONTRA COSTA POWER PLT ANTIOCH (Continued) **S102509496**

Site Code: Not reported
Assembly District: 11
Senate District: 07
Public Information Officer: Not reported
Public Information Officer: Not reported

Closure:
EPA Id: CAT080011489
Facility Type: Historical - Non-Operating
Unit Names: SURFSTR1 (GPRA Unit)
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 06/02/1995

Alias:
EPA Id: CAT080011489
Facility Type: Historical - Non-Operating
Alias Type: Alternate Name
Alias: MIRANT DELTA, LLC

WDS:
Name: CONTRA COSTA POWER PLT ANTIOCH
Address: 3201 WILBUR
City: ANTIOCH
Facility ID: Sacramento-San Joaquin Delta 072014008
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: CA0004863 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 0
Facility Telephone: 9254273513
Facility Contact: STEVE GALLO
Agency Name: MIRANT DELTA LLC
Agency Address: PO BOX 192
Agency City,St,Zip: PITTSBURG 94565
Agency Contact: STEVE GALLO
Agency Telephone: 9254273513
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, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

CONTRA COSTA POWER PLT ANTIOCH (Continued) **S102509496**

Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	450
Baseline Flow:	1000
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The POTW Does not have an approved pretreatment program. Some POTWs may have local pretreatment programs that have not been approved by the regional board and/or EPA.
Treat To Water:	Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Complexity:	Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.

H32 **CONTRA COSTA POWER PLANT** **RCRA-TSDF** **1000196257**
East **3201 WILBUR AVENUE** **RCRA-SQG** **CAT080011489**
1/4-1/2 **ANTIOCH, CA 94509** **RAATS**
0.349 mi. **WDS**
1841 ft. **Site 3 of 4 in cluster H**

Relative: **Lower**

Actual: **15 ft.**

RCRA-TSDF:

Date form received by agency:	2018-11-28 00:00:00.0
Facility name:	CONTRA COSTA GENERATING STATION
Facility address:	3201 WILBUR AVE ANTIOCH, CA 94509
EPA ID:	CAT080011489
Mailing address:	PO BOX 192 PITTSBURG, CA 94565
Contact:	STEVE DAWKIN
Contact address:	PO BOX 192 PITTSBURG, CA 94565
Contact country:	US
Contact telephone:	925-324-3569
Contact email:	STEVE.DAWKIN@GENON.COM
EPA Region:	09
Land type:	Private
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:

Owner/operator name:	NRG DELTA LLC
Owner/operator address:	PO BOX 1687 ANTIOCH, CA 94509
Owner/operator country:	Not reported
Owner/operator telephone:	925-427-3513
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Owner/Operator Type: Owner
Owner/Op start date: 1999-04-16 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: NRG DELTA LLC
Owner/operator address: WILBUR AVE.
ANTIOCH, CA 94565
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 1999-04-16 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: NRG DELTA LLC
Owner/operator address: PO BOX 192
PITTSBURG, CA 94565
Owner/operator country: US
Owner/operator telephone: 925-427-3513
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 1999-04-16 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: NGR DELTA LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 1999-04-16 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 2014-03-01 00:00:00.0
Site name: CONTRA COSTA GENERATING STATION
Classification: Large Quantity Generator

Date form received by agency: 2012-11-02 00:00:00.0
Site name: CONTRA COSTA GENERATING STATION
Classification: Large Quantity Generator

Date form received by agency: 2010-02-18 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 2006-02-13 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Small Quantity Generator

Date form received by agency: 2006-02-13 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 2001-04-12 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1999-04-15 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1996-09-01 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1996-02-22 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1994-03-29 00:00:00.0
Site name: PG&E CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1990-04-11 00:00:00.0
Site name: PG&E CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Hazardous Waste Summary:

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 222
. Waste name: Oil/water separation sludge

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 291
. Waste name: Latex waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

CONTRA COSTA POWER PLANT (Continued) **1000196257**

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: 801
. Waste name: Waste potentially containing dioxins

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

CONTRA COSTA POWER PLANT (Continued) **1000196257**

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

Corrective Action Summary:
Event date: 1986-09-24 00:00:00.0
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 1986-09-24 00:00:00.0
Event: RFA COMPLETED

Event date: 1986-12-01 00:00:00.0
Event: NCAPS RANKING/PRIORITY

Event date: 1986-12-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Event date:	1986-12-01 00:00:00.0
Event:	PA OR CERCLA INSPECTION
Event date:	1986-12-01 00:00:00.0
Event:	LEAD AGENCY DETERMINATION
Event date:	1986-12-01 00:00:00.0
Event:	CA PRIORITIZATION-LOW CA PRIORITY
Event date:	1988-05-18 00:00:00.0
Event:	CA PROCESS IS TERMINATED-REMEDIAL ACTIVITIES COMPLETE
Event date:	1989-02-24 00:00:00.0
Event:	3008(H) ENFORCMT INTERIM STATUS
Event date:	1989-09-15 00:00:00.0
Event:	INVESTIGATION IMPOSITION
Event date:	1995-06-02 00:00:00.0
Event:	CA PROCESS IS TERMINATED-NO FURTHER ACTION
Event date:	2012-10-29 00:00:00.0
Event:	INVESTIGATION WORKPLAN RECEIVED
Event date:	2012-11-20 00:00:00.0
Event:	INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED
Event date:	2012-11-20 00:00:00.0
Event:	INVESTIGATION WORKPLAN MODIFICATION REQ BY AGENCY
Event date:	2013-03-22 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	2013-04-15 00:00:00.0
Event:	INVESTIGATION IMPOSITION
Event date:	2013-08-29 00:00:00.0
Event:	INVESTIGATION WORKPLAN APPROVED
Event date:	2013-11-01 00:00:00.0
Event:	INVESTIGATION WORKPLAN RECEIVED
Event date:	2013-12-31 00:00:00.0
Event:	INVESTIGATION IMPLEMENTATION BEGUN
Event date:	2013-12-31 00:00:00.0
Event:	INVESTIGATION IMPLEMENTATION BEGUN
Event date:	2014-01-14 00:00:00.0
Event:	INVESTIGATION WORKPLAN MODIFICATION REQ BY AGENCY
Event date:	2014-01-14 00:00:00.0
Event:	INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED
Event date:	2014-10-13 00:00:00.0
Event:	INVESTIGATION WORKPLAN APPROVED

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Event date: 2015-05-01 00:00:00.0
Event: INVESTIGATION IMPLEMENTATION BEGUN

Event date: 2015-05-08 00:00:00.0
Event: INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED

Event date: 2015-06-19 00:00:00.0
Event: INVESTIGATION SUPPLEMENTAL INFO DEEMED SATISFACT

Event date: 2015-11-30 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2016-10-25 00:00:00.0
Event: INVESTIGATION COMPLETE

Facility Has Received Notices of Violations:
Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1992-06-24 00:00:00.0
Date achieved compliance: 1992-10-13 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-02-23 00:00:00.0
Date achieved compliance: 1991-08-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-04-05 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1987-12-08 00:00:00.0
Date achieved compliance: 1988-01-18 00:00:00.0
Violation lead agency: State
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 1989-03-27 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1987-12-08 00:00:00.0
Date achieved compliance: 1988-01-18 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(H) I.S. CA ORDER
Enforcement action date: 1989-09-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1987-11-24 00:00:00.0
Date achieved compliance: 1988-01-18 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-01-08 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1986-11-25 00:00:00.0
Date achieved compliance: 1991-08-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1987-08-12 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2010-01-07 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-01-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1992-06-24 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Area of violation: TSD - Financial Requirements
Date achieved compliance: 1992-10-13 00:00:00.0
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 1991-09-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1989-02-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1991-08-05 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-02-16 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1987-12-08 00:00:00.0
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1988-01-18 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-11-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1988-01-18 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-11-09 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1986-11-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1991-08-05 00:00:00.0
Evaluation lead agency: State

RCRA-SQG:
Date form received by agency: 2018-11-28 00:00:00.0
Facility name: CONTRA COSTA GENERATING STATION
Facility address: 3201 WILBUR AVE
ANTIOCH, CA 94509
EPA ID: CAT080011489
Mailing address: PO BOX 192
PITTSBURG, CA 94565
Contact: STEVE DAWKIN
Contact address: PO BOX 192
PITTSBURG, CA 94565
Contact country: US

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Contact telephone: 925-324-3569
Contact email: STEVE.DAWKIN@GENON.COM
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: NRG DELTA LLC
Owner/operator address: PO BOX 1687
ANTIOCH, CA 94509
Owner/operator country: Not reported
Owner/operator telephone: 925-427-3513
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 1999-04-16 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: NRG DELTA LLC
Owner/operator address: WILBUR AVE.
ANTIOCH, CA 94565
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 1999-04-16 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: NRG DELTA LLC
Owner/operator address: PO BOX 192
PITTSBURG, CA 94565
Owner/operator country: US
Owner/operator telephone: 925-427-3513
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 1999-04-16 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: NGR DELTA LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Owner/Operator Type: Operator
Owner/Op start date: 1999-04-16 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2014-03-01 00:00:00.0
Site name: CONTRA COSTA GENERATING STATION
Classification: Large Quantity Generator

Date form received by agency: 2012-11-02 00:00:00.0
Site name: CONTRA COSTA GENERATING STATION
Classification: Large Quantity Generator

Date form received by agency: 2010-02-18 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 2006-02-13 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Small Quantity Generator

Date form received by agency: 2006-02-13 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 2001-04-12 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1999-04-15 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1996-09-01 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1996-02-22 00:00:00.0
Site name: CONTRA COSTA POWER PLANT

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Classification: Large Quantity Generator

Date form received by agency: 1994-03-29 00:00:00.0
Site name: PG&E CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1990-04-11 00:00:00.0
Site name: PG&E CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: CONTRA COSTA POWER PLANT
Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 222
. Waste name: Oil/water separation sludge

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 291
. Waste name: Latex waste

CONTRA COSTA POWER PLANT (Continued) **1000196257**

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: 801
. Waste name: Waste potentially containing dioxins

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

CONTRA COSTA POWER PLANT (Continued) **1000196257**

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

CONTRA COSTA POWER PLANT (Continued) **1000196257**

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

Corrective Action Summary:

Event date: 1986-09-24 00:00:00.0
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 1986-09-24 00:00:00.0
Event: RFA COMPLETED

Event date: 1986-12-01 00:00:00.0
Event: NCAPS RANKING/PRIORITY

Event date: 1986-12-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1986-12-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1986-12-01 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1986-12-01 00:00:00.0
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 1988-05-18 00:00:00.0
Event: CA PROCESS IS TERMINATED-REMEDIAL ACTIVITIES COMPLETE

Event date: 1989-02-24 00:00:00.0
Event: 3008(H) ENFORCMT INTERIM STATUS

Event date: 1989-09-15 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 1995-06-02 00:00:00.0
Event: CA PROCESS IS TERMINATED-NO FURTHER ACTION

Event date: 2012-10-29 00:00:00.0
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 2012-11-20 00:00:00.0
Event: INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED

Event date: 2012-11-20 00:00:00.0
Event: INVESTIGATION WORKPLAN MODIFICATION REQ BY AGENCY

Event date: 2013-03-22 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2013-04-15 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 2013-08-29 00:00:00.0

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2013-11-01 00:00:00.0
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 2013-12-31 00:00:00.0
Event: INVESTIGATION IMPLEMENTATION BEGUN

Event date: 2013-12-31 00:00:00.0
Event: INVESTIGATION IMPLEMENTATION BEGUN

Event date: 2014-01-14 00:00:00.0
Event: INVESTIGATION WORKPLAN MODIFICATION REQ BY AGENCY

Event date: 2014-01-14 00:00:00.0
Event: INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED

Event date: 2014-10-13 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2015-05-01 00:00:00.0
Event: INVESTIGATION IMPLEMENTATION BEGUN

Event date: 2015-05-08 00:00:00.0
Event: INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED

Event date: 2015-06-19 00:00:00.0
Event: INVESTIGATION SUPPLEMENTAL INFO DEEMED SATISFACT

Event date: 2015-11-30 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2016-10-25 00:00:00.0
Event: INVESTIGATION COMPLETE

Facility Has Received Notices of Violations:
Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1992-06-24 00:00:00.0
Date achieved compliance: 1992-10-13 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-02-23 00:00:00.0
Date achieved compliance: 1991-08-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-04-05 00:00:00.0

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1987-12-08 00:00:00.0
Date achieved compliance: 1988-01-18 00:00:00.0
Violation lead agency: State
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 1989-03-27 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1987-12-08 00:00:00.0
Date achieved compliance: 1988-01-18 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(H) I.S. CA ORDER
Enforcement action date: 1989-09-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1987-11-24 00:00:00.0
Date achieved compliance: 1988-01-18 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-01-08 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1986-11-25 00:00:00.0
Date achieved compliance: 1991-08-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1987-08-12 00:00:00.0
Enf. disposition status: Not reported

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 2010-01-07 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-01-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1992-06-24 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1992-10-13 00:00:00.0
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 1991-09-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1989-02-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1991-08-05 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-02-16 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1987-12-08 00:00:00.0
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1988-01-18 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-11-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1988-01-18 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-11-09 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1986-11-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1991-08-05 00:00:00.0
Evaluation lead agency: State

RAATS:
Entry No: 1
Facility ID: CAT080011489
Type: Not reported
Docket No: RCRA-09-89-0015
Region: 09
Issue Date: Not reported
Final Date: 02/24/1989
Status: Unilateral Order (Corrective Action)
Additional: Not reported
Action ID: 569
Action: 3008 (H)
Violation No: Not reported
Viol No Cited: 0
Total No Cited: Not reported
Reg Type: Not reported
Prop. Penalty: .00
Final Penalty: .00
Total Prop. Penalty: .00
Comments: 3008(H) ORDER (UNILATERAL)

WDS:
Name: CONTRA COSTA POWER PLANT
Address: 3201 Wilbur Ave
City: ANTIOCH
Facility ID: 5S 07I016482
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 0
Facility Telephone: 9257796500
Facility Contact: STEVE BAUMAN
Agency Name: MIRANT DELTA LLC
Agency Address: 3201 WILBUR AVE
Agency City,St,Zip: ANTIOCH 945090024
Agency Contact: STEVEN BAUMAN
Agency Telephone: 9257796500
Agency Type: ?
SIC Code: 0
SIC Code 2: Not reported

CONTRA COSTA POWER PLANT (Continued) **1000196257**

Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

H33 **CONTRA COSTA GENERATING STATION** **ENVIROSTOR** **1007739419**
East **3201 WILBUR AVENUE** **CHMIRS** **N/A**
1/4-1/2 **ANTIOCH, CA 94509** **TSCA**
0.349 mi. **ICIS**
1841 ft. **Site 4 of 4 in cluster H** **FINDS**
ECHO
Relative: **ENF**
Lower **NPDES**
Actual: **CIWQS**
15 ft. **CERS**

ENVIROSTOR:

Name:	PG&E, CONTRA COSTA POWER PLANT
Address:	3201 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509
Facility ID:	71003523
Status:	Refer: Other Agency
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Berkeley
Assembly:	11
Senate:	07
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Latitude: 38.01703
Longitude: -121.7646
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAT080011489
Alias Type: EPA Identification Number
Alias Name: 110019003790
Alias Type: EPA (FRS #)
Alias Name: 71003523
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Name: CONTRA COSTA POWER PLANT
Address: 3201 WILBUR AVENUE
City,State,Zip: ANTIOCH, CA 945090000
Facility ID: 80001830
Status: Active
Status Date: 02/04/2010
Site Code: 200423
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 168.56
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Nancy Tu
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Assembly: 11
Senate: 07
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.01703
Longitude: -121.7646
APN: 051031015, 051031016, 051031018, 051031019
Past Use: ABOVE GROUND STORAGE TANKS, WASTE WATER PONDS
Potential COC: Arsenic Total Chromium (1:6 ratio Cr VI:Cr III Lead Polychlorinated

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

biphenyls (PCBs TPH-diesel TPH-gas TPH-MOTOR OIL Copper and compounds Nickel Polynuclear aromatic hydrocarbons (PAHs Benzo[a]pyrene Zinc
Confirmed COC: Arsenic Total Chromium (1:6 ratio Cr VI:Cr III 30013-NO TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs Copper and compounds Zinc Nickel TPH-MOTOR OIL Benzo[a]pyrene Polychlorinated biphenyls (PCBs
Potential Description: CSS, OTH, SED, SOIL, SURFW
Alias Name: Contra Costa Power Plant
Alias Type: Alternate Name
Alias Name: GenOn
Alias Type: Alternate Name
Alias Name: GenOn Energy, Inc.
Alias Type: Alternate Name
Alias Name: GenOn Energy, Inc.
Alias Type: Alternate Name
Alias Name: Mirant LLC
Alias Type: Alternate Name
Alias Name: PG&E
Alias Type: Alternate Name
Alias Name: PG&E Contra Costa Power Plant
Alias Type: Alternate Name
Alias Name: 051031015
Alias Type: APN
Alias Name: 051031016
Alias Type: APN
Alias Name: 051031018
Alias Type: APN
Alias Name: 051031019
Alias Type: APN
Alias Name: CAT080011489
Alias Type: EPA Identification Number
Alias Name: 110019003790
Alias Type: EPA (FRS #)
Alias Name: 200423
Alias Type: Project Code (Site Code)
Alias Name: 80001830
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 04/15/2013
Comments: Ammendment added two units to the list of areas that require further action and removed one unit that had been entered erroneously.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2014
Comments: Estimate and Schedule discussed with and okayed by DTSC Project manager on 9/17/2014

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 03/22/2013
Comments: DTSC has determined that the site in its current condition does not

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

pose a threat to human health. Ongoing corrective action will address groundwater contamination issues.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/01/2013
Comments: Schedule modified in accordance with discussions with project manager. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/29/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/28/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/12/2015
Comments: Notification of Project Manager Change

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/17/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/09/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/29/2017
Comments: The Annual Cost Estimate is completed and a letter was sent to the RP. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Request for Tribal Outreach
Completed Date: 06/18/2019
Comments: Tribal governments were contacted but no Tribes expressed interest in the site.

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Completed Date: 02/10/2011
Comments: NOD based on functionally equivalent EIR prepared by the California Energy Commission.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/17/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Action Completion Determination
Completed Date: 05/18/1988
Comments: Certification of clean closure of the two surface impoundments at the facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 06/30/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2011
Comments: Estimate approved by RP

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 06/02/1995
Comments: This letter certified the clean closure of all remaining waste management units subject to permitting.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 04/06/1981
Comments: First Interim Status Document in Record

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 02/02/2011
Comments: Facility Initiated Corrective Action Consent Agreement signed by DTSC and PG&E

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 02/24/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Completed Document Type: Consent Decree
Completed Date: 09/15/1989
Comments: Not reported

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 10/18/2010
Comments: Statement of Findings made public on 10/18/2010 Notice of Determination will be filed after project approval before the end of November 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 09/24/1986
Comments: RFA Uploaded by FAST

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/01/2010
Comments: Scheduled and estimate reviewed and approved by RP and mailed to them. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 06/29/2012
Comments: Final Version completed and agreed to by both parties. Sent to RP who will sign it on 6/29

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Action Completion Determination
Completed Date: 07/14/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 12/01/1986
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 12/01/1986
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/21/2009
Comments: Not reported

Completed Area Name: GenOn Marsh Landing Generating Station

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 05/13/2010
Comments: Workplan has been revised and approved.

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 11/17/2010
Comments: Investigation Report is completed. includes data from most of the entire site history.

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Report
Completed Date: 10/18/2010
Comments: Document approved internally, public comment period ends 10/19/2010.

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/14/2010
Comments: Public comment period begins October 18 and ends November 19.

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/14/2010
Comments: Public Comment period to begin October 18 and end November 19

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 02/14/2011
Comments: Approved with conditions including APPROVAL FOR SOIL REMEDIATION ONLY with provision to address groundwater contamination during site wide remediation to be done at a later time.

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 02/01/2011
Comments: Plan reviewed as requested and approved by DTSC Industrial Hygienist

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/23/1997
Comments: 22 potential issues are identified, a Phase II ESA is recommended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/01/1998
Comments: Phase II independently prepared by PG&E prior to seel of portions of the facility in 1999.

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/31/1986
Comments: Closure Plan Approved under additional modifications and conditions imposed by DTSC in the approval letter.

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/29/2011
Comments: Report approval completes cleanup OF SOIL within the MLGS area. Groundwater will be addressed by site-wide remediation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/20/2012
Comments: Further Action required for 23 out of 52 Units evaluated. No further action recommended for 29 of 52 units evaluated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 10/13/2014
Comments: RP will begin implementing the plan in December 2014

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 10/25/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/01/2015
Comments: Fieldwork completed without major changes or obstacles

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/14/2009
Comments: Report analysis impacts of operating production wells to provide water for the proposed power plant.

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/11/2011
Comments: Letter by consultant PES Environmental to CEC Compliance and Dockets Office argues that allowing Genon to install and use wells will have deleterious impacts on groundwater in the area, will compound already existing contamination and will compromise remediation efforts taking place to address groundwater contamination in the area.

Completed Area Name: PROJECT WIDE

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/24/2012
Comments: Corrective Action Schedule for the entire site

Completed Area Name: GenOn Marsh Landing Generating Station
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/05/2012
Comments: All product and contaminated soil removed from the excavation. Groundwater contamination will be addressed under upcoming sitewide Corrective Action.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 08/29/2013
Comments: Workplan approved after three revisions of the original.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/29/2013
Comments: Report Approved after three revisions

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/31/2013
Comments: Investigation completed but location of most wells continue to be unknown. Facility requests until February 1, 2014 to submit final report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 02/02/2015
Comments: Work notice was approved by PPS, and was circulated tot he public.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/04/2013
Comments: Report indicates soil is not a hazardous waste and is not contaminated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 10/03/2013
Comments: HASP approved, interim activities started on October 1, 2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/31/2013
Comments: Fieldwork completed

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/01/2014
Comments: Report approved under specific conditions.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/31/2013
Comments: Report complete and on target

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 07/01/2014
Comments: HASP ready for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 04/16/2015
Comments: Public Participation Specialist concluded that a Public Participation Plan is not required at this time

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan Addendum
Completed Date: 06/19/2015
Comments: Approved by GSU. To be implemented July 2015

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/15/2015
Comments: Facility-Wide Well Management Plan reviewed by Allan Fone. Final approval letter sent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 10/04/2017
Comments: DTSC approves the Human Health Risk Assessment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/20/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 02/24/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 08/18/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Workplan
Completed Date: 07/13/2017
Comments: ERA WP Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/16/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/22/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Workplan
Completed Date: 04/19/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/02/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/02/2018
Comments: DTSC approves the BTV Metals in Groundwater Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/26/2018
Comments: DTSC approves the Groundwater Investigation Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/07/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 05/21/2018

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/29/2017
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2021
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2022
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2022
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2022
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedy Construction Complete
Future Due Date: 2020
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Corrective Measure Implementation Workplan
Schedule Due Date: 05/09/2019
Schedule Revised Date: 12/30/2019
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 02/19/2020
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Fact Sheets
Schedule Due Date: 12/13/2018
Schedule Revised Date: 01/02/2020
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 12/18/2018
Schedule Revised Date: 08/30/2019
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 12/31/2019
Schedule Revised Date: Not reported

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Corrective Action Completion Determination
Schedule Due Date:	03/13/2020
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	CEQA - Initial Study/ Neg. Declaration
Schedule Due Date:	02/28/2019
Schedule Revised Date:	08/30/2019
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedy Selection and Statement of Basis
Schedule Due Date:	02/28/2019
Schedule Revised Date:	02/13/2020
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Groundwater Migration Controlled
Schedule Due Date:	03/08/2019
Schedule Revised Date:	01/15/2020

CHMIRS:

Name:	Not reported
Address:	3201 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
OES Incident Number:	1-5445
OES notification:	09/13/2011
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	San Joaquin River
Spill Site:	Utilities/Substation

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	700
Year:	2011
Agency:	XXXX
Incident Date:	9/13/2011
Admin Agency:	Contra Costa County Health Services Department
Amount:	Not reported
Contained:	No
Site Type:	San Joaquin River
E Date:	Not reported
Substance:	Construction Water
Quantity Released:	Unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states a power plant is being constructed. Caller states the new plant is running a six inch line across a berm into a spill way that releases into the San Joaquin River. Caller states this release is not permitted.

TSCA:

No Details:	Please contact your EDR Account Executive for more information about this site

ICIS:

Enforcement Action ID:	CA-200045587
FRS ID:	110019003790
Action Name:	Contra Costa Power Plant Antioch - NOV
Facility Name:	CONTRA COSTA GENERATING STATION
Facility Address:	3201 WILBUR AVE ANTIOCH, CA 94509
Enforcement Action Type:	Notice of Violation
Facility County:	CONTRA COSTA
Program System Acronym:	NPDES
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	4911
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.012417

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Longitude in Decimal Degrees:	-121.758972
Permit Type Desc:	NPDES Individual Permit
Program System Acronym:	CA0004863
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported
Enforcement Action ID:	CA-200045586
FRS ID:	110019003790
Action Name:	Contra Costa Power Plant Antioch - NOV
Facility Name:	CONTRA COSTA GENERATING STATION
Facility Address:	3201 WILBUR AVE ANTIOCH, CA 94509
Enforcement Action Type:	Notice of Violation
Facility County:	CONTRA COSTA
Program System Acronym:	NPDES
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	4911
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.012417
Longitude in Decimal Degrees:	-121.758972
Permit Type Desc:	NPDES Individual Permit
Program System Acronym:	CA0004863
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported
Enforcement Action ID:	CA-200018663
FRS ID:	110019003790
Action Name:	Contra Costa Power Plant Antioch - NOV
Facility Name:	CONTRA COSTA GENERATING STATION
Facility Address:	3201 WILBUR AVE ANTIOCH, CA 94509
Enforcement Action Type:	Notice of Violation
Facility County:	CONTRA COSTA
Program System Acronym:	NPDES
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	4911
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.012417
Longitude in Decimal Degrees:	-121.758972
Permit Type Desc:	NPDES Individual Permit
Program System Acronym:	CA0004863
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported
Enforcement Action ID:	CA-200018433
FRS ID:	110019003790
Action Name:	Contra Costa Power Plant Antioch - SEL
Facility Name:	CONTRA COSTA GENERATING STATION
Facility Address:	3201 WILBUR AVE ANTIOCH, CA 94509
Enforcement Action Type:	Letter to Regulated Entity
Facility County:	CONTRA COSTA
Program System Acronym:	NPDES
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	LRE

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Facility SIC Code:	4911
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.012417
Longitude in Decimal Degrees:	-121.758972
Permit Type Desc:	NPDES Individual Permit
Program System Acronym:	CA0004863
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

FINDS:

Registry ID: 110019003790

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

CAMDBS (Clean Air Markets Division Business System) is a national information system that supports the implementation of market-based air pollution control programs administered by the Clean Air Markets Division, within the Office of Air and Radiation. These programs include the Acid Rain Program, established by Title IV of the Clean Air Act Amendments of 1990, and regional programs designed reduce the transport of ozone. These emissions trading programs allows regulated facilities (primarily electric utilities) to adopt the most cost-effective strategies to reduce emissions at their units. Units that reduce their emissions below the number of allowances they hold -- each allowance is equivalent to one ton of sulfur dioxide or nitrogen oxides -- may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. CAMDBS functions include registering responsible officials, establishing allowance accounts, reporting hourly emissions data, and transferring allowances between accounts.

TSCA SUBMITTER

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US 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.

HAZARDOUS AIR POLLUTANT MAJOR

OSHA ESTABLISHMENT

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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.

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

ELECTRIC GENERATOR

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

GREENHOUSE GAS REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1007739419
Registry ID:	110019003790
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110019003790

ENF:

Name:	CONTRA COSTA POWER PLANT ANTIOCH
Address:	3201 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	215588
Agency Name:	GenOn Energy, Inc.
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.01228
Place Longitude:	-121.75814
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

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

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:	450
Threat To Water Quality:	1
Complexity:	A
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:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	5B072014008
Reg Measure Id:	148182
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	R5-2001-0107
Npdes# CA#:	CA0004863
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	09/06/2017
Effective Date:	04/27/2001
Expiration/Review Date:	04/01/2006
Termination Date:	10/03/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	10/4/2013
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	376961
Region:	Not reported
Order / Resolution Number:	Not reported
Enforcement Action Type:	Notice of Violation
Effective Date:	12/10/2010
Adoption/Issuance Date:	12/10/2010
Achieve Date:	Not reported
Termination Date:	12/10/2010
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Title:	NOV 12/10/2010 for Mirant Delta LLC, Contra Costa Power Plant
Description:	October 2010 SMR does not fully comply with the MRP requirements.
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	CONTRA COSTA POWER PLANT ANTIOCH
Address:	3201 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	215588
Agency Name:	GenOn Energy, Inc.
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.01228
Place Longitude:	-121.75814
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:	450
Threat To Water Quality:	1
Complexity:	A
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:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	5B072014008
Reg Measure Id:	148182
Reg Measure Type:	NPDES Permits
Region:	Not reported

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Order #:	R5-2001-0107
Npdes# CA#:	CA0004863
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	09/06/2017
Effective Date:	04/27/2001
Expiration/Review Date:	04/01/2006
Termination Date:	10/03/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	10/4/2013
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	376671
Region:	Not reported
Order / Resolution Number:	Not reported
Enforcement Action Type:	Notice of Violation
Effective Date:	11/19/2010
Adoption/Issuance Date:	11/19/2010
Achieve Date:	Not reported
Termination Date:	11/19/2010
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV 11/19/2010 for Mirant Delta LLC, Conra Costa Power Plant
Description:	September 2010 SMR does not fully comply with the MRP requirements.
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	CONTRA COSTA POWER PLANT ANTIOCH
Address:	3201 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	215588
Agency Name:	GenOn Energy, Inc.
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.01228
Place Longitude:	-121.75814
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:	450
Threat To Water Quality:	1
Complexity:	A
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:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	5B072014008
Reg Measure Id:	148182
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	R5-2001-0107
Npdes# CA#:	CA0004863
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	09/06/2017
Effective Date:	04/27/2001
Expiration/Review Date:	04/01/2006
Termination Date:	10/03/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	10/4/2013
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Enforcement Id(EID):	367493
Region:	Not reported
Order / Resolution Number:	Not reported
Enforcement Action Type:	Notice of Violation
Effective Date:	06/01/2009
Adoption/Issuance Date:	06/01/2009
Achieve Date:	Not reported
Termination Date:	06/01/2009
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV 06/01/2009 for MIRANT DELTA LLC, CONTRA COSTA POWER PLT ANTIOCH
Description:	The outfall 001 effluent grab and composite sampling location is not collected at the proper place.
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	CONTRA COSTA POWER PLANT ANTIOCH
Address:	3201 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	215588
Agency Name:	GenOn Energy, Inc.
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.01228
Place Longitude:	-121.75814
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:	450
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Cooling water: Noncontact

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	5B072014008
Reg Measure Id:	148182
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	R5-2001-0107
Npdes# CA#:	CA0004863
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	09/06/2017
Effective Date:	04/27/2001
Expiration/Review Date:	04/01/2006
Termination Date:	10/03/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	10/4/2013
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	354522
Region:	Not reported
Order / Resolution Number:	Not reported
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	10/07/2008
Adoption/Issuance Date:	10/07/2008
Achieve Date:	Not reported
Termination Date:	10/07/2008
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	SEL 10/07/2008 for MIRANT DELTA LLC
Description:	Not reported
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

NPDES:

Name:	CONTRA COSTA GENERATING STATION
Address:	3201 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S07I016482
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	06/10/2016
Operator Name:	NRG Delta LLC
Operator Address:	PO Box 1687
Operator City:	Antioch
Operator State:	California
Operator Zip:	94509

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	198176
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S07I016482
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:	06/01/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/24/2001
Status:	Terminated
Status Date:	06/10/2016
Place Size:	132
Place Size Unit:	Acres

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Contact:	David Frandsen
Contact Title:	Not reported
Contact Phone:	925-779-6539
Contact Phone Ext:	Not reported
Contact Email:	David.Frandsen@nrg.com
Operator Name:	NRG Delta LLC
Operator Address:	PO Box 1687
Operator City:	Antioch
Operator State:	California
Operator Zip:	94509
Operator Contact:	David Frandsen
Operator Contact Title:	Not reported
Operator Contact Phone:	925-779-6539
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	David.Frandsen@nrg.com
Operator Type:	Other
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	925-324-3533
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Joaquin River
Certifier:	Matthew Pistner
Certifier Title:	Vice President Regional Operations
Certification Date:	04-JUN-15
Primary Sic:	4911-Electric Services
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	5S
Regulatory Measure ID:	198176
Order Number:	97-03-DWQ

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S07I016482
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/24/2001
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	06/01/2016
Discharge Name:	NRG Delta LLC
Discharge Address:	PO Box 1687
Discharge City:	Antioch
Discharge State:	California
Discharge Zip:	94509
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	CONTRA COSTA POWER PLANT SW ST UPGRADE PHYSICAL SECURITY TIER 4
Address:	3201 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S07C383090
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	04/18/2018
Operator Name:	Pacific Gas and Electric Company
Operator Address:	3401 Crow Canyon Road
Operator City:	San Ramon
Operator State:	California
Operator Zip:	94583

Name:	CONTRA COSTA POWER PLANT SW ST UPGRADE PHYSICAL SECURITY TIER 4
Address:	3201 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509
Facility Status:	Active
NPDES Number:	CAS000002
Region:	5S
Agency Number:	0
Regulatory Measure ID:	492783
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	5S07C383090
Regulatory Measure Type:	Enrollee
Program Type:	Construction

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 04/18/2018
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 3401 Crow Canyon Road
Discharge Name: Pacific Gas and Electric Company
Discharge City: San Ramon
Discharge State: California
Discharge Zip: 94583
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

CIWQS:
Name: MARSH LANDING GENERATING STATION
Address: 3201 WILBUR AVENUE
City,State,Zip: ANTIOCH, CA 94565
Agency: NRG Marsh Landing LLC
Agency Address: 3201 C Wilbur Avenue P O Box 1687, Antioch, CA 94509
Place/Project Type: Construction - Utility
SIC/NAICS: Not reported
Region: 5S
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 5S07C360144
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 01/05/2011
Termination Date: 09/06/2013
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 38.03306
Longitude: Error

Name: CONTRA COSTA GENERATING STATION
Address: 3201 WILBUR AVE
City,State,Zip: ANTIOCH, CA 94509
Agency: NRG Delta LLC
Agency Address: PO Box 1687, Antioch, CA 94509
Place/Project Type: Industrial - Electric Services
SIC/NAICS: 4911
Region: 5S
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

WDID:	5S07I016482
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/24/2001
Termination Date:	06/01/2016
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.01226
Longitude:	-121.75913

Name:	CONTRA COSTA POWER PLANT SW ST UPGRADE PHYSICAL SECURITY TIER 4
Address:	3201 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509
Agency:	Pacific Gas and Electric Company
Agency Address:	3401 Crow Canyon Road, San Ramon, CA 94583
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	5S
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	5S07C383090
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	04/18/2018
Termination Date:	08/22/2019
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.015216
Longitude:	-121.761848

Name:	CONTRA COSTA POWER PLANT ANTIOCH
Address:	3201 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Agency:	GenOn Energy, Inc.
Agency Address:	6635 Edison Drive, Oxnard, CA 93033
Place/Project Type:	Power Plant
SIC/NAICS:	4911
Region:	5S
Program:	NPDESWW, NPDINDLRG
Regulatory Measure Status:	Historical
Regulatory Measure Type:	NPDES Permit
Order Number:	R5-2001-0107
WDID:	5B072014008
NPDES Number:	CA0004863
Adoption Date:	04/27/2001

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Effective Date:	04/27/2001
Termination Date:	10/03/2013
Expiration/Review Date:	04/01/2006
Design Flow:	450
Major/Minor:	Major
Complexity:	A
TTWQ:	1
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.01228
Longitude:	-121.75814

CERS:

Name:	MARSH LANDING GENERATING STATION
Address:	3201 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509
Site ID:	479360
CERS ID:	110043331864
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	SHARENE SHEALEY
Entity Title:	MANAGER, AIR RESOURCES
Affiliation Address:	121 CHAMPION WAY
Affiliation City:	CANONSBURG
Affiliation State:	PA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	CHARLES OLIVER
Entity Title:	PLANT MANAGER
Affiliation Address:	696 WEST 10TH STREET
Affiliation City:	PITTSBURG
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	David Frandsen
Entity Title:	Not reported
Affiliation Address:	POBOX 192
Affiliation City:	PITTSBURG
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	SUSAN SONG
Entity Title:	ENVIRONMENTAL CONTACT
Affiliation Address:	POBOX 192
Affiliation City:	PITTSBURG
Affiliation State:	CA

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: NRG MARSH LANDING LLC
Entity Title: OPERATOR
Affiliation Address: POBOX 1687
Affiliation City: ANTIOCH
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: MATTHEW PISTNER
Entity Title: VP WEST PLANT OPERATIONS
Affiliation Address: 6635 SOUTH EDISON DRIVE
Affiliation City: OXNARD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: RANDY DIXON
Entity Title: O AND M MGR
Affiliation Address: 3201 C WILBUR AVE
Affiliation City: ANTIOCH
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Owner
Entity Name: NRG MARSH LANDING LLC
Entity Title: OWNER
Affiliation Address: POBOX 1687
Affiliation City: ANTIOCH
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: NRG MARSH LANDINGNA LLC
Entity Title: Not reported
Affiliation Address: POBOX 1687
Affiliation City: ANTIOCH
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: CONTRA COSTA POWER PLANT SW ST UPGRADE PHYSICAL SECURITY TIER 4
Address: 3201 WILBUR AVENUE

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

City,State,Zip: ANTIOCH, CA 94509
Site ID: 529759
CERS ID: 860169
CERS Description: Construction Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Pacific Gas and Electric Company
Entity Title: Operator
Affiliation Address: 3401 Crow Canyon Road
Affiliation City: San Ramon
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94583
Affiliation Phone: Not reported

Name: CONTRA COSTA POWER PLANT ANTIOCH
Address: 3201 WILBUR
City,State,Zip: ANTIOCH, CA 94509
Site ID: 311911
CERS ID: 215588
CERS Description: NPDES Wastewater and Stormwater

Violations:
Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Violation Date: 06-21-2010
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Discharge exceeded monthly effluent TSS (LVW - 001A) limitation of 30 mg/l with 30-Apr-2010 result of 31 mg/l.
Violation Division: Water Boards
Violation Program: NPDINDLRG
Violation Source: CIWQS

Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Violation Date: 02-18-2009
Citation: California Water Code
Violation Description: Not reported
Violation Notes: The Outfall 001 effluent grab and composite sampling location is collected where effluent is in contact with the receiving waters. This is a violation of Standard Provision C.5. which requires effluent samples to be obtained prior to mixing with the receiving waters. This recurring violation was also noted during the 3 June 2008 inspection
Violation Division: Water Boards
Violation Program: NPDINDLRG
Violation Source: CIWQS

Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Violation Date: 11-17-2010
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Outfall 001 temperature, required to be monitoring continuously, was not monitored or reported between 25 and 30 September 2010 due to instrument failure.

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Violation Division: Water Boards
Violation Program: NPDINDLRG
Violation Source: CIWQS

Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Violation Date: 12-03-2010
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Outfall 1 temperature was not reported from 1 October 2010 through 15 october 2010 due to equipment malfunction. Also, required monthly boiler blowdown samples were not collected prior to shutting down operations on 2 October 2010.
Violation Division: Water Boards
Violation Program: NPDINDLRG
Violation Source: CIWQS

Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Violation Date: 09-23-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Total Residual chlorine @ outfall 002 exceeded daily maximum effluent limtation by > 1.2 0.06mg/l Reported vs. 0.02mg/l permit limit. ***Discharger filed bankruptcy - violation is exempted from MMP penalty***
Violation Division: Water Boards
Violation Program: NPDINDLRG
Violation Source: CIWQS

Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Violation Date: 09-23-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Total residual chlorine @ outfall 002 exceeded the daily maximum effluent limitation by > 1.2 0.04mg/l Reported vs. 0.02mg/l permit limit ***Discharger filed bankruptcy - violation is exempted from MMP penalty***
Violation Division: Water Boards
Violation Program: NPDINDLRG
Violation Source: CIWQS

Enforcement Action:
Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Site Address: 3201 WILBUR
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 06-01-2009
Enf Action Type: Notice of Violation (Water)
Enf Action Description: Notice of Violation Letter (Informal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

CONTRA COSTA GENERATING STATION (Continued) **1007739419**

Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Site Address: 3201 WILBUR
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 10-07-2008
Enf Action Type: Staff Enforcement Letter (Informal)
Enf Action Description: Staff Enforcement Letter (Informal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Site Address: 3201 WILBUR
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 11-19-2010
Enf Action Type: Notice of Violation (Water)
Enf Action Description: Notice of Violation Letter (Informal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Site ID: 311911
Site Name: Contra Costa Power Plant Antioch
Site Address: 3201 WILBUR
Site City: ANTIOCH
Site Zip: 94509
Enf Action Date: 12-10-2010
Enf Action Type: Notice of Violation (Water)
Enf Action Description: Notice of Violation Letter (Informal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Coordinates:

Site ID: 311911
Facility Name: Contra Costa Power Plant Antioch
Env Int Type Code: CIWQS_NPDE
Program ID: 215588
Coord Name: 002
Ref Point Type Desc: Monitoring Point
Latitude: 38.019444
Longitude: -121.758333

Site ID: 311911
Facility Name: Contra Costa Power Plant Antioch
Env Int Type Code: CIWQS_NPDE
Program ID: 215588
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 38.012280
Longitude: -121.758140

34
WNW
1/4-1/2
0.402 mi.
2122 ft.

Relative:
Lower

Actual:
20 ft.

KEMWATER NORTH AMERICA
2151 WILBUR AVE
ANTIOCH ,CA, CA 94509

Database(s): CPS-SLIC, WMUDS/SWAT, CHMIRS, Cortese, ENF, CONTRA COSTA CO. SITE LIST, WDS, CIWQS, CERS

EDR ID Number: 1001613146
EPA ID Number: N/A

SLIC REG 5:

Name:	Pioneer Americas, Antioch Plant (former Kemwater North America)
Address:	2151 Wilbur Ave
City:	Antioch
Region:	5
Facility Status:	Remediation Underway
Unit:	Facility is a Spill or site
Pollutant:	Cu, ammonia
Lead Agency:	DLL
Date Filed:	/ /
Report Date:	/ /
Date Added:	Not reported
Date Closed:	Not reported

CPS-SLIC:

Name:	PIONEER AMERICAS (FORMER KEMWATER & FORMER IMPERIAL WEST)
Address:	2151 WILBUR AVE
City,State,Zip:	ANTIOCH, CA
Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	01/01/2002
Global Id:	SL205032990
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)
Lead Agency Case Number:	Not reported
Latitude:	38.013806
Longitude:	-121.778516
Case Type:	Cleanup Program Site
Case Worker:	NC
Local Agency:	Not reported
RB Case Number:	SL205032990
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	* * CHLORIDE, * * IRON, * * MAGNESIUM, * * MANGANESE, Nitrate
Site History:	Groundwater at the Site is polluted with copper, ammonium, and other organic and inorganic compounds. Four source areas of concern have been identified and two of these areas have been actively remediated by excavating and treating the affected soil. Concentrations of most constituents in groundwater have been documented to be decreasing with time and will reach water quality objectives within a reasonable period of time based on trend data. A few areas of low pH groundwater persist and and are being monitored to determine when water quality objectives will be achieved.

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

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Category C - Facilities having no waste treatment systems, such as

KEMWATER NORTH AMERICA (Continued) **1001613146**

cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

Primary Waste: NONCON
Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: Not reported
NPID: CA0081248
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Open To Public: False
Waste List: False
Agency Type: Private
Agency Name: PIONEER CHLOR ALKALI., CO
Agency Department: Not reported
Agency Address: 2151 WILBUR AVE.
Agency City,St,Zip: ANTIOCH ,CA 94509
Agency Contact: VERRILL NORWOOD
Agency Telephone: 4234761082
Land Owner Name: Not reported
Land Owner Address: Not reported
Land Owner City,St,Zip: Not reported
Land Owner Contact: Not reported
Land Owner Phone: Not reported
Region: 5S
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 Description: Not reported
Facility Telephone: 5107578230
SWAT Facility Name: Not reported
Primary SIC: 2842
Secondary SIC: Not reported
Comments: Not reported
Last Facility Editors: Not reported
Waste Discharge System: True
Solid Waste Assessment Test Program: False
Toxic Pits Cleanup Act Program: True
Resource Conservation Recovery Act: False
Department of Defence: False
Solid Waste Assessment Test Program: Not reported
Threat to Water Quality: 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. Awsthetic impairment would include nuisance from a waste treatment facility.

KEMWATER NORTH AMERICA (Continued) **1001613146**

Sub Chapter 15:	False
Regional Board Project Officer:	PAL
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	No
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Monthly Submittal
Waste Discharge System ID:	5B072047001
Solid Waste Information ID:	Not reported

CHMIRS:

Name:	Not reported
Address:	2151 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
OES Incident Number:	8-0095
OES notification:	01/08/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	Chem Water
Incident Date:	1/8/199812:00:00 AM
Admin Agency:	Contra Costa County Health Services Dept.

KEMWATER NORTH AMERICA (Continued) **1001613146**

Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Bleach
Gallons:	100 - 130
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Overfilled truck and spilled into secondary containment area releasing a vapor.

CORTESE:

Name:	KEMWATER NORTH AMERICA
Address:	2151 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	Not reported
Site/Facility Type:	Not reported
Cleanup Status:	Not reported
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	CORTESE
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

ENF:

Name:	KEMWATER NORTH AMERICA
Address:	2151 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported

KEMWATER NORTH AMERICA (Continued) **1001613146**

Facility Id:	234774
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	38.012307
Place Longitude:	-121.778599
SIC Code 1:	2842
SIC Desc 1:	Speciality Cleaning, Polishing, and Sanitary Preparations
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:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	NPDESWW
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported

KEMWATER NORTH AMERICA (Continued) **1001613146**

WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	224637
Region:	Not reported
Order / Resolution Number:	R5-1997-0710
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	08/22/1997
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	CAO R5-1997-0710 for Pioneer Chlor Alkali Co, Kemwater North America
Description:	CLEANUP & ABATE GW CONTAMINATION. SUBMIT VARIOUS RPTS ON SOIL & GW INVEST. OFFSITE GW STUDY.
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	KEMWATER NORTH AMERICA
Address:	2151 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	Not reported
Facility Id:	234774
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	38.012307
Place Longitude:	-121.778599
SIC Code 1:	2842
SIC Desc 1:	Speciality Cleaning, Polishing, and Sanitary Preparations
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:	Enf Action

KEMWATER NORTH AMERICA (Continued) **1001613146**

Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	NPDESWW
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	223693
Region:	Not reported
Order / Resolution Number:	R5-1991-0715
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	04/30/1991
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	08/21/1997
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	CAO R5-1991-0715 for Pioneer Chlor Alkali Co, Kemwater North America
Description:	REQUIRE ADDENDUM TO COMPLETE HAR & RESCIND C&A 88-702
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0

KEMWATER NORTH AMERICA (Continued) **1001613146**

Liability $ Amount: 0
Project $ Amount: 0
Liability $ Paid: 0
Project $ Completed: 0
Total $ Paid/Completed Amount: 0

CONTRA COSTA CO. SITE LIST:
Name: KNA CALIFORNIA INC
Address: 2151 WILBUR AVE
City: ANTIOCH
Facility ID: FA0032399
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 754226

Name: KNA CALIFORNIA INC
Address: 2151 WILBUR AVE
City: ANTIOCH
Facility ID: FA0032399
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: UNDERGROUND STORAGE TANK SITE
Region: CONTRA COSTA
Cupa Number: 754226

Name: ALHAMBRA ENVIRONMENTAL
Address: 2151 WILBUR AVE
City: ANTIOCH
Facility ID: FA0029943
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP GENERAL
Region: CONTRA COSTA
Cupa Number: 773273

Name: ALHAMBRA ENVIRONMENTAL
Address: 2151 WILBUR AVE
City: ANTIOCH
Facility ID: FA0029943
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: LESS THAN 5 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 773273

WDS:
Name: KEMWATER NORTH AMERICA CO
Address: 2151 Wilbur Ave
City: ANTIOCH
Facility ID: 5S 07I015286
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

KEMWATER NORTH AMERICA (Continued) **1001613146**

	repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	0
Facility Telephone:	9257578243
Facility Contact:	FRED VIRDEN
Agency Name:	KEMWATER NORTH AMERICA CO
Agency Address:	PO Box 606
Agency City,St,Zip:	Antioch 945090060
Agency Contact:	FRED VIRDEN
Agency Telephone:	9257578243
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	KEMWATER NORTH AMERICA CO
Address:	2151 WILBUR AVE
City,State,Zip:	ANTIOCH, CA 94509
Agency:	Kemwater North America Co
Agency Address:	PO Box 606, Antioch, CA 94509
Place/Project Type:	Industrial - Industrial Inorganic Chemicals, NEC
SIC/NAICS:	2819
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S07I015286
NPDES Number:	CAS000001
Adoption Date:	Not reported

KEMWATER NORTH AMERICA (Continued) **1001613146**

Effective Date:	07/20/1999
Termination Date:	06/22/2004
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.01231
Longitude:	-121.77853

Name:	KEMWATER NORTH AMERICA
Address:	2151 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Agency:	Pioneer Chlor Alkali Company Inc
Agency Address:	2151 Wilbur Avenue, Antioch, CA 94509
Place/Project Type:	Other
SIC/NAICS:	2842
Region:	5S
Program:	NPDESWW
Regulatory Measure Status:	Historical
Regulatory Measure Type:	NPDES Permit
Order Number:	99-060
WDID:	5B072047001
NPDES Number:	CA0081248
Adoption Date:	06/11/1999
Effective Date:	06/11/1999
Termination Date:	10/26/2000
Expiration/Review Date:	06/01/2004
Design Flow:	0.018
Major/Minor:	Minor
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.012307
Longitude:	-121.778599

CERS:

Name:	KEMWATER NORTH AMERICA
Address:	2151 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Site ID:	318750
CERS ID:	234774
CERS Description:	NPDES Wastewater and Stormwater

Enforcement Action:

Site ID:	318750
Site Name:	Kemwater North America
Site Address:	2151 WILBUR
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	04-30-1991
Enf Action Type:	Clean-up and Abatement Order
Enf Action Description:	Clean-up and Abatement Order
Enf Action Notes:	Not reported

KEMWATER NORTH AMERICA (Continued) **1001613146**

Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS
Site ID:	318750
Site Name:	Kemwater North America
Site Address:	2151 WILBUR
Site City:	ANTIOCH
Site Zip:	94509
Enf Action Date:	08-22-1997
Enf Action Type:	Clean-up and Abatement Order
Enf Action Description:	Clean-up and Abatement Order
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS
Name:	PIONEER AMERICAS (FORMER KEMWATER & FORMER IMPERIAL WEST)
Address:	2151 WILBUR AVE
City,State,Zip:	ANTIOCH, CA
Site ID:	246618
CERS ID:	SL205032990
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	NATHAN CASEBEER - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

I35 West 1/4-1/2 0.436 mi. 2302 ft. **INDUSTRIAL LOT WITH TANK**
WILBUR AVENUE
ANTIOCH, CA 94509

ENVIROSTOR VCP **S116165430 N/A**

Site 1 of 2 in cluster I

Relative: Higher

Actual: 35 ft.

ENVIROSTOR:

Name:	INDUSTRIAL LOT WITH TANK
Address:	WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509
Facility ID:	7990013
Status:	Certified
Status Date:	01/30/2006
Site Code:	201531
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	3.78
NPL:	NO
Regulatory Agencies:	SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency:	SMBRP
Program Manager:	Megan Indermill

INDUSTRIAL LOT WITH TANK (Continued) **S116165430**

Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 11
Senate: 07
Special Program: Designation of Single Agency
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 38.0119
Longitude: -121.7794
APN: 051-100-028-3
Past Use: MANUFACTURING - PAPER
Potential COC: TPH-diesel
Confirmed COC: TPH-diesel
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: INDUSTRIAL LOT WITH TANK
Address: WILBUR AVENUE
City,State,Zip: ANTIOCH, CA 94509
Facility ID: 7990013
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3.78
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Megan Indermill
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 201531
Assembly: 11
Senate: 07
Special Programs Code: Designation of Single Agency
Status: Certified
Status Date: 01/30/2006

INDUSTRIAL LOT WITH TANK (Continued) **S116165430**

Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	38.0119 / -121.7794
APN:	051-100-028-3
Past Use:	MANUFACTURING - PAPER
Potential COC:	30024
Confirmed COC:	30024
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

I36 **SANTA YNEZ HIGH SCHOOL** **HIST CORTESE** **S105022532**
West **2000 WILBUR** **N/A**
1/4-1/2 **ANTIOCH, CA 94509**
0.463 mi.
2444 ft. **Site 2 of 2 in cluster I**

Relative: HIST CORTESE:
Higher

edr_fname:	Santa Ynez High School
edr_fadd1:	2000 WILBUR
City,State,Zip:	ANTIOCH, CA 94509
Region:	CORTESE
Facility County Code:	7
Reg By:	LTNKA
Reg Id:	3245

Actual:
40 ft.

---

37 **VINEYARD TRACT** **ENVIROSTOR** **S116165379**
SE **E. 18TH STREET** **VCP** **N/A**
1/2-1 **ANTIOCH, CA 94509**
0.510 mi.
2695 ft.

Relative: ENVIROSTOR:
Higher

Name:	VINEYARD TRACT
Address:	E. 18TH STREET
City,State,Zip:	ANTIOCH, CA 94509
Facility ID:	7010013
Status:	Certified
Status Date:	12/19/2005
Site Code:	201533

Actual:
36 ft.

VINEYARD TRACT (Continued) **S116165379**

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 24.79
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency: SMBRP
Program Manager: Megan Indermill
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 11
Senate: 07
Special Program: Designation of Single Agency
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 38.006
Longitude: -121.7601
APN: 051-052-056-2
Past Use: NONE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: NMA
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: VINEYARD TRACT
Address: E. 18TH STREET
City,State,Zip: ANTIOCH, CA 94509
Facility ID: 7010013
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 24.79
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Megan Indermill
Supervisor: Barbara Cook

VINEYARD TRACT (Continued) **S116165379**

Division Branch:	Cleanup Berkeley
Site Code:	201533
Assembly:	11
Senate:	07
Special Programs Code:	Designation of Single Agency
Status:	Certified
Status Date:	12/19/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	38.006 / -121.7601
APN:	051-052-056-2
Past Use:	NONE
Potential COC:	NONE SPECIFIED,31000
Confirmed COC:	31000
Potential Description:	NMA
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

38
SW
1/2-1
0.518 mi.
2733 ft.

ALMOND ORCHARD **ENVIROSTOR** **S106152505**
2101 E. 18TH STREET **VCP** **N/A**
ANTIOCH, CA 94509

Relative:
Higher

Actual:
48 ft.

ENVIROSTOR:

Name:	ALMOND ORCHARD
Address:	2101 E. 18TH STREET
City,State,Zip:	ANTIOCH, CA 94509
Facility ID:	7010011
Status:	Certified
Status Date:	06/13/2005
Site Code:	201530
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	8.78
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Megan Indermill
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley

ALMOND ORCHARD (Continued) **S106152505**

Assembly:	11
Senate:	07
Special Program:	Designation of Single Agency
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	38.00599
Longitude:	-121.7767
APN:	051-100-022-6, 051-100-023-4, 051100022
Past Use:	AGRICULTURAL - ORCHARD
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Name:	ALMOND ORCHARD
Address:	2101 E. 18TH STREET
City,State,Zip:	ANTIOCH, CA 94509
Facility ID:	7010011
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	8.78
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Megan Indermill
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	201530
Assembly:	11
Senate:	07
Special Programs Code:	Designation of Single Agency
Status:	Certified
Status Date:	06/13/2005
Restricted Use:	NO
Funding:	Responsible Party

ALMOND ORCHARD (Continued) **S106152505**

Lat/Long:	38.00599 / -121.7767
APN:	051-100-022-6, 051-100-023-4, 051100022
Past Use:	AGRICULTURAL - ORCHARD
Potential COC:	NONE SPECIFIED,31000
Confirmed COC:	31000
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

39
WSW
1/2-1
0.524 mi.
2769 ft.

GAYLORD TRACTS **ENVIROSTOR** **S106152506**
1030 APOLLO COURT **VCP** **N/A**
ANTIOCH, CA 94509 **DEED**

Relative: Higher

Actual: 36 ft.

ENVIROSTOR:

Name:	GAYLORD TRACTS
Address:	1030 APOLLO COURT
City,State,Zip:	ANTIOCH, CA 94509
Facility ID:	7790001
Status:	Certified / Operation & Maintenance
Status Date:	06/30/2005
Site Code:	201532
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	30
NPL:	NO
Regulatory Agencies:	SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency:	SMBRP
Program Manager:	Megan Indermill
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Assembly:	11
Senate:	07
Special Program:	Designation of Single Agency
Restricted Use:	YES
Site Mgmt Req:	ASP, FOUN, DAY, ELD, HOS, LUC, NOWN, NUSE, SCH, RES
Funding:	Responsible Party
Latitude:	38.01137
Longitude:	-121.7866
APN:	051100030, 051100030-9, 051100032

GAYLORD TRACTS (Continued) **S106152506**

Past Use: MANUFACTURING - PAPER, AGRICULTURAL - ORCHARD
Potential COC: Dioxin (as 2,3,7,8-TCDD TEQ Dioxin (as 2,3,7,8-TCDD TEQ
Confirmed COC: Dioxin (as 2,3,7,8-TCDD TEQ Dioxin (as 2,3,7,8-TCDD TEQ
Potential Description: SOIL, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: GAYLORD TRACTS
Address: 1030 APOLLO COURT
City,State,Zip: ANTIOCH, CA 94509
Facility ID: 7790001
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: ASP, FOUN, DAY, ELD, HOS, LUC, NOWN, NUSE, SCH, RES
Acres: 30
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Megan Indermill
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Site Code: 201532
Assembly: 11
Senate: 07
Special Programs Code: Designation of Single Agency
Status: Certified / Operation & Maintenance
Status Date: 06/30/2005
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 38.01137 / -121.7866
APN: 051100030, 051100030-9, 051100032
Past Use: MANUFACTURING - PAPER, AGRICULTURAL - ORCHARD
Potential COC: 30009, 30009
Confirmed COC: 30009,, ,30009
Potential Description: SOIL, SOIL
Alias Name: Not reported
Alias Type: Not reported

GAYLORD TRACTS (Continued) **S106152506**

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Name: GAYLORD TRACTS
Address: 1030 APOLLO COURT
City,State,Zip: ANTIOCH, CA 94509
Envirostor ID: 7790001
Area: RECREATIONAL TRACT
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

40
West
1/2-1
0.558 mi.
2944 ft.

IMPERIAL WEST, ANTIOCH PLANT **Toxic Pits** **S100925117**
1701 WILBUR AVENUE **EMI** **N/A**
ANTIOCH, CA 94509

Relative:
Higher

Actual:
54 ft.

TOXIC PITS:
Region: 05S
Task #: 85001
Owner: IMPERIAL WEST CHEMICAL CO.
1/2 Mi Limit: Y
Num. of Pits: 1
Cease Discharge Due: 09/01/90
Cease Discharge Complete: / /
Closure Due: 11/01/90
Closure Completed: 01/16/92
Status: CLOSED
Hydro Geological Assessment Report Due: 04/01/92
Final Hydro Geological Assessment Review Completed: / /

EMI:
Name: IMPERIAL WEST CHEMICAL CO
Address: 1701 WILBUR AVENUE
City,State,Zip: ANTIOCH, CA 94509-7238
Year: 1990

IMPERIAL WEST, ANTIOCH PLANT (Continued) **S100925117**

County Code:	7
Air Basin:	SF
Facility ID:	725
Air District Name:	BA
SIC Code:	2819
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	9
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5

Name:	IMPERIAL WEST CHEMICAL CO
Address:	1701 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509-7238
Year:	1993
County Code:	7
Air Basin:	SF
Facility ID:	725
Air District Name:	BA
SIC Code:	2819
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	9
Part. Matter 10 Micrometers and Smllr Tons/Yr:	4

41
West
1/2-1
0.797 mi.
4209 ft.

PG&E, CONTRA COSTA POWER PLANT **Toxic Pits** **S100925119**
1456 WILBUR AVENUE **EMI** **N/A**
ANTIOCH, CA 94509

Relative:
Higher

Actual:
55 ft.

TOXIC PITS:

Region:	05S
Task #:	85013
Owner:	PG&E - ENVIRONMENTAL SERVICES
1/2 Mi Limit:	Y
Num. of Pits:	3
Cease Discharge Due:	06/30/88
Cease Discharge Complete:	01/30/87
Closure Due:	01/01/87
Closure Completed:	**12/05/88**
Status:	CLOSED
Hydro Geological Assessment Report Due:	/ /
Final Hydro Geological Assessment Review Completed:	11/25/88

EMI:

PG&E, CONTRA COSTA POWER PLANT (Continued) **S100925119**

Name:	PACIFIC GAS AND ELECTRIC CO, A
Address:	1456 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509-7236
Year:	1990
County Code:	7
Air Basin:	SF
Facility ID:	18
Air District Name:	BA
SIC Code:	4931
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	64
Reactive Organic Gases Tons/Yr:	41
Carbon Monoxide Emissions Tons/Yr:	438
NOX - Oxides of Nitrogen Tons/Yr:	2223
SOX - Oxides of Sulphur Tons/Yr:	437
Particulate Matter Tons/Yr:	94
Part. Matter 10 Micrometers and Smllr Tons/Yr:	92

Name:	PACIFIC GAS AND ELECTRIC CO, A
Address:	1456 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509-7236
Year:	1995
County Code:	7
Air Basin:	SF
Facility ID:	18
Air District Name:	BA
SIC Code:	4931
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	234
NOX - Oxides of Nitrogen Tons/Yr:	839
SOX - Oxides of Sulphur Tons/Yr:	4
Particulate Matter Tons/Yr:	18
Part. Matter 10 Micrometers and Smllr Tons/Yr:	18

Name:	PACIFIC GAS AND ELECTRIC CO, A
Address:	1456 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509-7236
Year:	1996
County Code:	7
Air Basin:	SF
Facility ID:	18
Air District Name:	BA
SIC Code:	4931
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	234
NOX - Oxides of Nitrogen Tons/Yr:	839
SOX - Oxides of Sulphur Tons/Yr:	4

PG&E, CONTRA COSTA POWER PLANT (Continued) **S100925119**

Particulate Matter Tons/Yr:	18
Part. Matter 10 Micrometers and Smllr Tons/Yr:	18

Name:	PACIFIC GAS AND ELECTRIC CO, A
Address:	1456 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509-7236
Year:	1997
County Code:	7
Air Basin:	SF
Facility ID:	18
Air District Name:	BA
SIC Code:	4931
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	14
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	280
NOX - Oxides of Nitrogen Tons/Yr:	1010
SOX - Oxides of Sulphur Tons/Yr:	4
Particulate Matter Tons/Yr:	21
Part. Matter 10 Micrometers and Smllr Tons/Yr:	21

Name:	SOUTHERN ENERGY CALIFORNIA, CO
Address:	1456 WILBUR AVENUE
City,State,Zip:	ANTIOCH, CA 94509-7236
Year:	1998
County Code:	7
Air Basin:	SF
Facility ID:	18
Air District Name:	BA
SIC Code:	4931
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	18
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	374
NOX - Oxides of Nitrogen Tons/Yr:	820
SOX - Oxides of Sulphur Tons/Yr:	6
Particulate Matter Tons/Yr:	28
Part. Matter 10 Micrometers and Smllr Tons/Yr:	28

42
NNW
1/2-1
0.869 mi.
4590 ft.

WEST ISLAND **ENVIROSTOR** **S116165431**
IN THE SAN JOAQUIN RIVER **VCP** **N/A**
SACRAMENTO CNTY, CA 95641

Relative:
Lower

Actual:
8 ft.

ENVIROSTOR:

Name:	WEST ISLAND
Address:	IN THE SAN JOAQUIN RIVER
City,State,Zip:	SACRAMENTO CNTY, CA 95641
Facility ID:	7990015
Status:	Certified
Status Date:	06/09/2005
Site Code:	101653
Site Type:	Voluntary Cleanup

WEST ISLAND (Continued) **S116165431**

Site Type Detailed: Voluntary Cleanup
Acres: 155.82
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency: SMBRP
Program Manager: Megan Indermill
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 11
Senate: 03
Special Program: Designation of Single Agency
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 38.02339
Longitude: -121.7786
APN: 158-0100-001-0000
Past Use: NONE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: NMA
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: WEST ISLAND
Address: IN THE SAN JOAQUIN RIVER
City,State,Zip: SACRAMENTO CNTY, CA 95641
Facility ID: 7990015
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 155.82
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Megan Indermill
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley

WEST ISLAND (Continued) **S116165431**

Site Code:	101653
Assembly:	11
Senate:	03
Special Programs Code:	Designation of Single Agency
Status:	Certified
Status Date:	06/09/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	38.02339 / -121.7786
APN:	158-0100-001-0000
Past Use:	NONE
Potential COC:	NONE SPECIFIED,31000
Confirmed COC:	31000
Potential Description:	NMA
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

J43 **E.I. DUPONT DE NEMOURS & CO.** **ENVIROSTOR** **S101580703**
East **6000 BRIDGEHEAD RD** **LUST** **N/A**
1/2-1 **ANTIOCH, CA 94509** **CPS-SLIC**
0.877 mi. **VCP**
4631 ft. **Site 1 of 3 in cluster J** **SWEEPS UST**
CA FID UST
Relative: **ENF**
Lower **ICE**
Actual: **HIST CORTESE**
20 ft. **HWP**
NPDES
CONTRA COSTA CO. SITE LIST
CIWQS
CERS

ENVIROSTOR:

Name:	NP OAKLEY LLC.
Address:	6000 BRIDGEHEAD ROAD
City,State,Zip:	OAKLEY, CA 94561
Facility ID:	60002740
Status:	Active
Status Date:	09/20/2018
Site Code:	202215
Site Type:	Voluntary Cleanup

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Site Type Detailed:	Voluntary Cleanup
Acres:	378
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Ajit Vaidya
Supervisor:	Ajit Vaidya
Division Branch:	Engineering & Special Projects
Assembly:	Not reported
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	0
Longitude:	0
APN:	030220010, 037020008, 037020009, 037020014, 037020015, 037020016, 037020017, 037020018, 037020018, 037020019, 037020020, 037020021, 037020022
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	037020020
Alias Type:	APN
Alias Name:	037020021
Alias Type:	APN
Alias Name:	037020022
Alias Type:	APN
Alias Name:	202215
Alias Type:	Project Code (Site Code)
Alias Name:	60002740
Alias Type:	Envirostor ID Number
Alias Name:	030220010
Alias Type:	APN
Alias Name:	037020008
Alias Type:	APN
Alias Name:	037020009
Alias Type:	APN
Alias Name:	037020014
Alias Type:	APN
Alias Name:	037020015
Alias Type:	APN
Alias Name:	037020016
Alias Type:	APN
Alias Name:	037020017
Alias Type:	APN
Alias Name:	037020018
Alias Type:	APN
Alias Name:	037020018
Alias Type:	APN
Alias Name:	037020019
Alias Type:	APN

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 03/23/2019
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Prospective Purchaser Agreement
Schedule Due Date: 09/19/2019
Schedule Revised Date: Not reported

LUST REG 5:
Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD RD
City: ANTIOCH
Region: 5
Status: Remedial action (cleanup) Underway
Case Number: 070004
Case Type: Drinking Water Aquifer affected
Substance: UNLEAD GASOLINE
Staff Initials: MWC
Lead Agency: Regional
Program: LUST
MTBE Code: N/A

CPS-SLIC:
Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD RD
City,State,Zip: ANTIOCH, CA 94509
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 05/01/2001
Global Id: T0601300745
Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)
Lead Agency Case Number: Not reported
Latitude: 38.0121453
Longitude: -121.7508293
Case Type: Cleanup Program Site
Case Worker: NC
Local Agency: CONTRA COSTA COUNTY
RB Case Number: 070004
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Please refer to Global ID SL0601340233.

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

Name: DUPONT CHEMICAL CO., ANTIOCH WORKS (E.I. DUPONT)

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Address:	6000 BRIDGEHEAD ROAD
City,State,Zip:	OAKLEY, CA
Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	12/17/2004
Global Id:	SL0601340233
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)
Lead Agency Case Number:	80001610
Latitude:	38.0122548121086
Longitude:	-121.750568423279
Case Type:	Cleanup Program Site
Case Worker:	NC
Local Agency:	Not reported
RB Case Number:	SL0601340233
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Surface water
Potential Contaminants of Concern:	* Chlorinated Solvents - PCE, * Chlorinated Solvents - TCE, * Other Spill, * Semi-Volatile Organic Compounds, * Volatile Organic Compounds (VOC)
Site History:	This is a DTSC lead Agency Site.

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

VCP:

Name:	NP OAKLEY LLC.
Address:	6000 BRIDGEHEAD ROAD
City,State,Zip:	OAKLEY, CA 94561
Facility ID:	60002740
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	378
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Ajit Vaidya
Supervisor:	Ajit Vaidya
Division Branch:	Engineering & Special Projects
Site Code:	202215
Assembly:	Not reported
Senate:	Not reported
Special Programs Code:	Not reported
Status:	Active
Status Date:	09/20/2018
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	0 / 0
APN:	030220010, 037020008, 037020009, 037020014, 037020015, 037020016, 037020017, 037020018, 037020018, 037020019, 037020020, 037020021, 037020022
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	037020020
Alias Type:	APN

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Alias Name: 037020021
Alias Type: APN
Alias Name: 037020022
Alias Type: APN
Alias Name: 202215
Alias Type: Project Code (Site Code)
Alias Name: 60002740
Alias Type: Envirostor ID Number
Alias Name: 030220010
Alias Type: APN
Alias Name: 037020008
Alias Type: APN
Alias Name: 037020009
Alias Type: APN
Alias Name: 037020014
Alias Type: APN
Alias Name: 037020015
Alias Type: APN
Alias Name: 037020016
Alias Type: APN
Alias Name: 037020017
Alias Type: APN
Alias Name: 037020018
Alias Type: APN
Alias Name: 037020018
Alias Type: APN
Alias Name: 037020019
Alias Type: APN

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 03/23/2019
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Prospective Purchaser Agreement
Schedule Due Date: 09/19/2019
Schedule Revised Date: Not reported

SWEEPS UST:
Name: E.I. DUPONT DE NEMOURS & CO.
Address: 6000 BRIDGEHEAD RD
City: ANTIOCH
Status: Not reported
Comp Number: 8471

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-008471-000002
Tank Status: Not reported
Capacity: 6988
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: 5

Name: E.I. DUPONT DE NEMOURS & CO.
Address: 6000 BRIDGEHEAD RD
City: ANTIOCH
Status: Not reported
Comp Number: 8471
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-008471-000003
Tank Status: Not reported
Capacity: 25000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: E.I. DUPONT DE NEMOURS & CO.
Address: 6000 BRIDGEHEAD RD
City: ANTIOCH
Status: Not reported
Comp Number: 8471
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-008471-000004
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: E.I. DUPONT DE NEMOURS & CO.
Address: 6000 BRIDGEHEAD RD

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

City: ANTIOCH
Status: Not reported
Comp Number: 8471
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-008471-000005
Tank Status: Not reported
Capacity: 515
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: E.I. DUPONT DE NEMOURS & CO.
Address: 6000 BRIDGEHEAD RD
City: ANTIOCH
Status: Not reported
Comp Number: 8471
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-008471-000006
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 07000002
Regulated By: UTNKA
Regulated ID: CAD009151
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4157571210
Mail To: Not reported
Mailing Address: 6000 BRIDGEHEAD RD
Mailing Address 2: Not reported
Mailing City,St,Zip: ANTIOCH 94509
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

ENF:

Name:	ANTIOCH FACILITY
Address:	6000 BRIDGEHEAD
City,State,Zip:	OAKLEY, CA 94509
Region:	Not reported
Facility Id:	205916
Agency Name:	E.I. du Pont de Nemours & Co.
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2816
SIC Desc 1:	Inorganic Pigments
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:	1.2
Threat To Water Quality:	2
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Domestic wastewater
Facility Waste Type 2:	Process waste, NEC
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDMUNILRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	5B072038001
Reg Measure Id:	141270
Reg Measure Type:	NPDES Permits
Region:	Not reported
Order #:	94-331
Npdes# CA#:	CA0004936
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	01/24/2012
Effective Date:	12/09/1994
Expiration/Review Date:	05/01/1999
Termination Date:	06/13/2001

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

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:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	364674
Region:	Not reported
Order / Resolution Number:	R5-2008-0596
Enforcement Action Type:	Admin Civil Liability
Effective Date:	11/10/2008
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	01/21/2009
ACL Issuance Date:	11/10/2008
EPL Issuance Date:	Not reported
Status:	Historical
Title:	MMPC R5-2008-0596 for E I Du Pont De Nemours & Co
Description:	MMP Complaint issued in the amount of $9,000 for 3 serious effluent limitation violations from 1/1/2000 to 4/30/2008.
Program:	NPDMUNILRG
Latest Milestone Completion Date:	2/4/2009
# Of Programs1:	1
Total Assessment Amount:	9000
Initial Assessed Amount:	9000
Liability $ Amount:	9000
Project $ Amount:	0
Liability $ Paid:	9000
Project $ Completed:	0
Total $ Paid/Completed Amount:	9000

Name:	ANTIOCH FACILITY
Address:	6000 BRIDGEHEAD
City,State,Zip:	OAKLEY, CA 94509
Region:	Not reported
Facility Id:	205916
Agency Name:	Not reported
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2816
SIC Desc 1:	Inorganic Pigments
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

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	NPDESWW
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	231492
Region:	Not reported
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	03/27/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	3/29/2000
Termination Date:	03/27/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	OC 03/27/2000 for Antioch Facility
Description:	Discharger investigated wastestreams which make up combined

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

effluent and found no source of 1,2 dichloroethane. Discharger has initiated a 'pre-sampling' strategy to characterize effluent prior to discharge to San Joaquin River.

Program: NPDESWW
Latest Milestone Completion Date: 3/29/2000
Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability $ Amount: 0
Project $ Amount: 0
Liability $ Paid: 0
Project $ Completed: 0
Total $ Paid/Completed Amount: 0

ICE:
Envirostor ID: 3002141
Name: THE CHEMOURS COMPANY FC LLC
Address: 6000 BRIDGEHEAD RD
City,State,Zip: OAKLEY, CA 94561
EPA ID: CAD009151671
Site Type: INSPECTION
Facility Status: No Action

Inspection:
Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 06/24/2004
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 08/24/2007
Violation Class: Class 2, Minor
RTC Date: 09/07/2007

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 06/30/2011
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 10/07/2011
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 09/29/2009
Violation Class: Class 2
RTC Date: 12/17/2009

Action Type: Financial Records Review - Post-Closure
Action Date: 09/03/2004
Violation Class: Class 2
RTC Date: 04/13/2010

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 02/27/2012

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Violation Class: Minor
RTC Date: 11/20/2012

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 01/16/2014
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 07/09/2012
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 12/17/2009
Violation Class: Class 1
RTC Date: 05/19/2010

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 06/27/2007
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 05/06/2014
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 02/13/2017
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 02/23/2017
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Post-Closure
Action Date: 05/02/2019
Violation Class: No Violations
RTC Date: Not reported

HIST CORTESE:
edr_fname: DU PONT ANTIOCH WORKS
edr_fadd1: 6000 BRIDGEHEAD
City,State,Zip: ANTIOCH, CA 94509
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 070004

HWP:
Name: THE CHEMOURS COMPANY FC LLC
Address: 6000 BRIDGEHEAD RD

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

City,State,Zip: OAKLEY, CA 945612940
EPA Id: CAD009151671
Cleanup Status: POST CLOSURE PERMIT
Latitude: 38.01290
Longitude: -121.7495
Facility Type: Post-Closure Permitted
Facility Size: Large Postclosure
Team: MUZHDA FEROUZ
Supervisor: RAMINDER BOLA
Site Code: 200165, 22120
Assembly District: 11
Senate District: 07
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: PC Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 11/05/2017

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: PC Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 11/09/2017

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: PC Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EXPIRES)
Actual Date: 01/07/2022

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 05/24/1982

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 12/10/2013

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Renewal - Historical - APPLICATION PART A RECEIVED
Actual Date: 11/19/1980

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: PC Mod Class 1 - No Prior Approval Required - ACKNOWLEDGEMENT OF PERMIT MOD LETTER
Actual Date: 08/30/2017

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 02/26/2015

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - MAILING LIST
Actual Date: 12/23/2014

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 04/09/1982

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 07/01/2015

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Renewal - Historical - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST RECEIVED
Actual Date: 02/26/1993

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - PUBLIC NOTICE BY PERMITTEE
Actual Date: 12/29/2014

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: PC Mod Class 1 - No Prior Approval Required - RESPONSE TO 1ST REQUEST FOR FUTHER INFORMA
Actual Date: 10/05/2017

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION (EXPIRES)
Actual Date: 01/07/2022

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 06/25/2015

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Event Description: PC Mod Class 1 - No Prior Approval Required - PUBLIC NOTICE OF MOD BY PERMITTEE
Actual Date: 12/01/2017

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 12/10/2013

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 02/26/2015

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Renewal - Historical - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 02/26/1993

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1* - Prior Approval Required - DISCLOSURE (CLEARED)
Actual Date: 05/21/2015

Closure:
EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - RESPONSE TO 2ND NOD RECEIVED
Actual Date: 03/25/2011

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, CONTAIN2, TANKSTR1, TANKSTR2, TANKTRT2
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 02/26/1993

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, CONTAIN2, TANKSTR1, TANKSTR2, TANKTRT2
Event Description: Closure - PUBLIC COMMENT (END)
Actual Date: 07/17/1996

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date: 01/04/2006

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - FINAL PART A & PART B RECEIVED
Actual Date: 07/14/2011

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EFFECTIVE)
Actual Date: 01/09/2012

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 06/26/2007

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, CONTAIN2, TANKSTR1, TANKSTR2, TANKTRT2
Event Description: Closure - RECEIVE CLOSURE CERTIFICATION
Actual Date: 01/20/2000

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - TECHNICAL COMPLETE LETTER
Actual Date: 08/11/2011

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1 (GPRA Unit)
Event Description: Closure Administrative - ISSUE CLOSURE VERIFICATION
Actual Date: 06/29/2018

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date: 06/28/2010

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EXPIRES)
Actual Date: 01/07/2022

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, CONTAIN2, TANKSTR1, TANKSTR2, TANKTRT2
Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 07/31/1996

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: INJECT1
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 05/30/1982

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1 (GPRA Unit)

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 12/19/1986

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 09/01/2011

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - PUBLIC COMMENT (PUBLIC MEETING)
Actual Date: 10/06/2011

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - FINAL CEQA
Actual Date: 12/07/2011

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - APPLICATION PART B RECEIVED
Actual Date: 11/11/2005

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, CONTAIN2, TANKSTR1, TANKSTR2, TANKTRT2
Event Description: Closure - PUBLIC COMMENT (BEGIN)
Actual Date: 06/17/1996

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, CONTAIN2, TANKSTR1, TANKSTR2, TANKTRT2
Event Description: Closure - CLOSURE NOTICE RECEIVED
Actual Date: 05/14/1996

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - DRAFT POST-CLOSURE PERMIT
Actual Date: 09/06/2011

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1 (GPRA Unit)
Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 07/27/1985

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1, CONTAIN2, TANKSTR1, TANKSTR2, TANKTRT2
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 01/20/2000

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1 (GPRA Unit)
Event Description: Closure - RECEIVE CLOSURE CERTIFICATION
Actual Date: 11/07/1985

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 12/22/2009

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - PUBLIC COMMENT (END)
Actual Date: 10/16/2011

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - FINAL POST-CLOSURE PERMIT
Actual Date: 12/07/2011

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1 (GPRA Unit)
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 06/20/1983

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1, SURFIMP2, SURFIMP3, SURFIMP4, SURFIMP5, SURFIMP6
Event Description: New Post-Closure Permit - PUBLIC COMMENT (PUBLIC HEARING)
Actual Date: 10/06/2011

Alias:
EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Alias Type: Project Code (Site Code)
Alias: 200165

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Alias Type: Project Code (Site Code)
Alias: 22120

EPA Id: CAD009151671
Facility Type: Post-Closure Permitted
Alias Type: Alternate Name
Alias: Dupont Oakley Site

Maintenance:
EPA Id: CAD009151671
Title: Annual Inspection Summary Report
Document Type: Inspection Report

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Received Date: 05/17/2018

EPA Id: CAD009151671
Title: Annual Waste Reduction and Minimization Certification
Document Type: Certification Documents from Facility
Received Date: 05/10/2018

NPDES:

Name: SOIL CORRECTIVE MEASURE IMPLEMENTATION FOR CHEMOURS OAKLEY SITE
Address: 6000 BRIDGEHEAD RD
City,State,Zip: OAKLEY, CA 94561
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 5S07C384531
Regulatory Measure Type: Construction
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Active
Status Date: 09/10/2018
Operator Name: The Chemours Company
Operator Address: 1007 Market Street
Operator City: Wilmington
Operator State: Delaware
Operator Zip: 19899

Name: CHEMOURS OAKLEY SITE
Address: 6000 BRIDGEHEAD ROAD
City,State,Zip: OAKLEY, CA 94561
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 5S07W002291
Regulatory Measure Type: Construction
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Expired
Status Date:	11/11/2015
Operator Name:	THE CHEMOURS COMPANY LLC
Operator Address:	6000 BRIDGEHEAD ROAD
Operator City:	OAKLEY
Operator State:	California
Operator Zip:	94561
Name:	DUPONT OAKLEY REMEDIATION PROJECT
Address:	6000 BRIDGEHEAD ROAD
City,State,Zip:	OAKLEY, CA 94561
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S07W001427
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Expired
Status Date:	10/27/2013
Operator Name:	EI DUPONT DE NEMOURS & CO
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Name:	SOIL CORRECTIVE MEASURE IMPLEMENTATION FOR CHEMOURS OAKLEY SITE
Address:	6000 BRIDGEHEAD RD
City,State,Zip:	OAKLEY, CA 94561
Facility Status:	Active
NPDES Number:	CAS000002
Region:	5S
Agency Number:	0
Regulatory Measure ID:	500924
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	5S07C384531
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/10/2018

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1007 Market Street
Discharge Name:	The Chemours Company
Discharge City:	Wilmington
Discharge State:	Delaware
Discharge Zip:	19899
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

CONTRA COSTA CO. SITE LIST:

Name:	CHEMOURS OAKLEY
Address:	6000 BRIDGEHEAD RD
City:	OAKLEY
Facility ID:	FA0031440
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HWG: RCRA LQG LEGACY PROGRAM
Region:	CONTRA COSTA
Cupa Number:	708471

Name:	CHEMOURS OAKLEY
Address:	6000 BRIDGEHEAD RD
City:	OAKLEY
Facility ID:	FA0031440
Billing Status:	INACTIVE, NON-BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	UNDERGROUND STORAGE TANK SITE
Region:	CONTRA COSTA
Cupa Number:	708471

Name:	CHEMOURS OAKLEY
Address:	6000 BRIDGEHEAD RD
City:	OAKLEY
Facility ID:	FA0031440
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HMBP: >10K-100K LBS, 0-19 EMPLOYEES
Region:	CONTRA COSTA
Cupa Number:	708471

Name:	CHEMOURS OAKLEY
Address:	6000 BRIDGEHEAD RD
City:	OAKLEY
Facility ID:	FA0031440
Billing Status:	ACTIVE, BILLABLE
Program Status:	CONTRA COSTA CO. SITE LIST
Program/Elements:	HWG: LESS THAN 5 TONS/YEAR
Region:	CONTRA COSTA
Cupa Number:	708471

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

CIWQS:

Name:	ANTIOCH FACILITY
Address:	6000 BRIDGEHEAD
City,State,Zip:	OAKLEY, CA 94509
Agency:	E.I. du Pont de Nemours & Co.
Agency Address:	6000 Bridgehead Road, Oakley, CA
Place/Project Type:	Manufacturing NEC
SIC/NAICS:	2816
Region:	5S
Program:	NPDMUNILRG
Regulatory Measure Status:	Historical
Regulatory Measure Type:	NPDES Permit
Order Number:	94-331
WDID:	5B072038001
NPDES Number:	CA0004936
Adoption Date:	12/09/1994
Effective Date:	12/09/1994
Termination Date:	06/13/2001
Expiration/Review Date:	05/01/1999
Design Flow:	1.2
Major/Minor:	Major
Complexity:	A
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

Name:	E I DUPONT DE NEMOURS & CO
Address:	6000 BRIDGEHEAD RD
City,State,Zip:	OAKLEY, CA 94561
Agency:	EI Du Pont De Nemours & Co Inc
Agency Address:	6000 Bridgehead Rd, Oakley, CA 94561
Place/Project Type:	Industrial - Chemicals and Chemical Preparations, NEC
SIC/NAICS:	2899
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S07I016773
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	09/13/2001
Termination Date:	07/11/2013
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.01223
Longitude:	-121.75078

CERS:

E.I. DUPONT DE NEMOURS & CO. (Continued) **S101580703**

Name:	SOIL CORRECTIVE MEASURE IMPLEMENTATION FOR CHEMOURS OAKLEY SITE
Address:	6000 BRIDGEHEAD RD
City,State,Zip:	OAKLEY, CA 94561
Site ID:	542761
CERS ID:	866486
CERS Description:	Construction Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	The Chemours Company
Entity Title:	Operator
Affiliation Address:	1007 Market Street
Affiliation City:	Wilmington
Affiliation State:	DE
Affiliation Country:	Not reported
Affiliation Zip:	19899
Affiliation Phone:	Not reported

J44 **CHEMOURS COMPANY FC LLC** **ENVIROSTOR** **S122221907**
East **6000 BRIDGEHEAD RD** **DEED** **N/A**
1/2-1 **OAKLEY, CA 94561**
0.877 mi.
4631 ft. **Site 2 of 3 in cluster J**

Relative: **Lower**
Actual: **20 ft.**

ENVIROSTOR:

Name:	CHEMOURS COMPANY FC LLC
Address:	6000 BRIDGEHEAD RD
City,State,Zip:	OAKLEY, CA 94561-2940
Facility ID:	80001610
Status:	Active
Status Date:	01/01/2008
Site Code:	200165
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	378
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	WM
Program Manager:	Carrie Tatoian-Cain
Supervisor:	Ajit Vaidya
Division Branch:	Engineering & Special Projects
Assembly:	11
Senate:	07
Special Program:	Not reported
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	38.01290
Longitude:	-121.7495
APN:	037020009, 037020010, 037020014, 037020015, 037020016, 037020017, 037020018, 037020019, 037020020, 037020021, 037020022
Past Use:	HAZARDOUS WASTE TREATMENT, MANUFACTURING - CHEMICALS
Potential COC:	Arsenic Lead Vanadium and compounds TPH-diesel TPH-gas 1,2-Dichloroethane (EDC 1,2-Dichloroethylene (cis Carbon tetrachloride Tetrachloroethylene (PCE Trichloroethylene (TCE Freon 113
Confirmed COC:	Arsenic Tetrachloroethylene (PCE TPH-diesel TPH-gas

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

1,2-Dichloroethane (EDC 1,2-Dichloroethylene (cis Carbon tetrachloride Vanadium and compounds Trichloroethylene (TCE Lead Freon 113

Potential Description: OTH, SED, SOIL, SV

Alias Name:	Dupont Oakley Site
Alias Type:	Alternate Name
Alias Name:	037020009
Alias Type:	APN
Alias Name:	037020010
Alias Type:	APN
Alias Name:	037020014
Alias Type:	APN
Alias Name:	037020015
Alias Type:	APN
Alias Name:	037020016
Alias Type:	APN
Alias Name:	037020017
Alias Type:	APN
Alias Name:	037020018
Alias Type:	APN
Alias Name:	037020019
Alias Type:	APN
Alias Name:	037020020
Alias Type:	APN
Alias Name:	037020021
Alias Type:	APN
Alias Name:	037020022
Alias Type:	APN
Alias Name:	CAD009151671
Alias Type:	EPA Identification Number
Alias Name:	SL0601340233
Alias Type:	GeoTracker Global ID
Alias Name:	200165
Alias Type:	Project Code (Site Code)
Alias Name:	80001610
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Groundwater Migration Controlled
Completed Date:	01/10/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Groundwater Migration Controlled
Completed Date:	05/04/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	07/18/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 12/17/2012
Comments: minor comment, no public objections.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 01/10/2001
Comments: Not reported

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 07/16/2012
Comments: SOB Complete- CMS Remedy approved

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: SWMU 4.19, SWMU 4.20 - South and North Retention Ponds
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/16/2012
Comments: Final GRT NOE, No changes following Public Comment Period necessary

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 04/08/2013
Comments: Not reported

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Action Completion Determination
Completed Date: 04/08/2013
Comments: Final SOB Complete - No public comments

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 08/27/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/28/2013
Comments: Final

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/08/2013
Comments: Courtesy Copy of MND for Outfall Removal

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Action Completion Determination
Completed Date: 04/08/2013
Comments: Corrective Action Complete Without Controls for FA1

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 12/01/2009
Comments: Not reported

Completed Area Name: SOIL INVESTGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 03/02/2010
Comments: Report conditionally approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/04/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/01/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 08/16/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/10/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/06/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 11/14/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 04/05/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Date: 04/05/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 12/04/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/11/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/11/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 10/03/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/11/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 09/08/2014
Comments: All work has been completed and all documents have been uploaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/12/2014
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/21/2016
Comments: Revised project action plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/07/2015
Comments: This is the annual project schedule

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/04/2015
Comments: Dupont's PM signed 14/15 Cost estimate for DTSC Oversight.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 05/18/2015
Comments: Not reported

Completed Area Name: Focus Area 4 (FA-4)
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 06/29/2018
Comments: Not reported

Completed Area Name: Focus Area 4 (FA-4)
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 06/29/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/13/2015
Comments: Cost Estimate was completed and signed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/21/2016
Comments: Cost Estimate is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/09/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/28/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 09/15/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Date: 08/08/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Implementation Report
Completed Date: 09/16/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/22/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/02/2016
Comments: Report was reviewed and accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/20/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/11/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/27/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/09/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/10/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/07/2017
Comments: Not reported

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/09/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 06/30/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/29/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/20/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/07/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 10/08/1997
Comments: GW PLUME DISCOVERED TO BE MOVING BEYOND EXTRACTION SYSTEM....ACTIONS SHOULD BE TAKEN TO CORRECT THIS SITUATION. RSARACINO 19971110.14:27S

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 06/30/1993
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Western/Eastern Dev Areas & Cline Prop
Completed Document Type: No Further Action Letter
Completed Date: 04/30/2006
Comments: Western Development Area and Cline Property

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Western/Eastern Dev Areas & Cline Prop
Completed Document Type: * CA Process is Terminated
Completed Date: 04/30/2006
Comments: Western and Eastern Areas and Cline Property - No Further Action

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Document Type: Interim Measures Questionnaire
Completed Date: 02/10/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 01/01/1983
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 07/20/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 06/17/2003
Comments: Not reported

Completed Area Name: SOIL INVESTGATION AND REMEDIATION
Completed Sub Area Name: AOPC 2.5 - Pigment Evaporation Basin
Completed Document Type: Technical Report
Completed Date: 06/15/2009
Comments: Chracterization of Brick Samples Complete

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/15/2009
Comments: Not reported

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 06/10/2009
Comments: This approval paves the path for the issuance of the final DFA1 release report that will address additional media (such as groundwater) and exposure pathways (e.g. vapor intrusion into buildings).

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/13/2009
Comments: First Draft of this report acceptable. DTSC Approved.

Completed Area Name: Off-Site Investigations
Completed Sub Area Name: Lauritzen Yacht Harbor and Driftwood Marina
Completed Document Type: Technical Report
Completed Date: 08/04/2009
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Document Type: Technical Workplan
Completed Date: 06/10/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/17/2010
Comments: Not reported

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: SWMU 4.19, SWMU 4.20 - South and North Retention Ponds
Completed Document Type: Technical Workplan
Completed Date: 06/12/2009
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ESFIM
Completed Document Type: Technical Report
Completed Date: 06/27/2008
Comments: Exploratory Sampling and Focused Intermim Measures Report Approval

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 09/14/2007
Comments: Phase 2 Soil Sampling Report NOD

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 01/08/2008
Comments: Phase 2 groundwater RFI MIP (Membrane interface probe) Report Approved. cs 7/10/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/25/2008
Comments: Ponds and Basins Backfill Soil Sampling Plan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/31/2007
Comments: 2007 Semi-Annual Groundwater Monitoring Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/12/2008
Comments: Groundwater Monitoring Data Evaluation Plan Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 11/10/2004

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Comments: Phase 1 Groundwater RFT Workplan approved. cs 7/10/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 05/19/2008
Comments: Phase I Groundwater RFI Report - DTSC Approval Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Implementation Report
Completed Date: 09/25/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 02/20/1984
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/01/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 08/24/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 07/09/2004
Comments: Phase 1 soil RFI

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ESFIM
Completed Document Type: Technical Workplan
Completed Date: 10/16/2007
Comments: Revised ESFIM Work Plan Approval Letter

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ESFIM
Completed Document Type: Technical Workplan
Completed Date: 12/28/2007
Comments: Approval of addendum to the ESFIM workplan. cs 9/25/08

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ESFIM
Completed Document Type: Technical Workplan
Completed Date: 10/01/2007
Comments: RTC approval letter for ESFIM Work Plan

Completed Area Name: PROJECT WIDE

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 01/28/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 01/10/1983
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 07/26/2004
Comments: Phase 2 groundwater RFI MIP (Membrane interface probe) Workplan approved. cs 7/10/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/23/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/03/2009
Comments: Not reported

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/05/2010
Comments: Not reported

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 09/09/2010
Comments: DTSC approves of Abnridged CMS WP and acknowledges no formal Wp necessary

Completed Area Name: SOIL INVESTGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/17/2009
Comments: This Report is a Data Presentation only. DTSC acknowledges receipt.

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: SURFACE WATER - Little Break, San Joaquin River, Lauritzen Yacht Harbor
Completed Document Type: Technical Report
Completed Date: 08/12/2009
Comments: Final Scoping Level Ecological Report for SJR, LB, and LYH Approved

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/09/2009
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/16/2010
Comments: DTSC Approval of 2009 Annual GWMR

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/07/2009
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/27/2009
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/18/2009
Comments: Final Surface Water Monitoring Plan Accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/13/2009
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/09/2010
Comments: Report Accepted

Completed Area Name: SOIL INVESTGATION AND REMEDIATION
Completed Sub Area Name: SWMU 4.2 West Basin
Completed Document Type: Technical Report
Completed Date: 01/28/2010
Comments: The Report is acceptable. No revisions necessary. There are conditions that need to be addressed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/12/2010
Comments: Not reported

Completed Area Name: SOIL INVESTGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Date:	08/31/2010
Comments:	Work Plan and Responses to Comments with Updated Figures Approved as Final WP on 8/31/2010
Completed Area Name:	GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	Plume 3
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	07/09/2010
Comments:	Not reported
Completed Area Name:	SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	SURFACE WATER - Little Break, San Joaquin River, Lauritzen Yacht Harbor
Completed Document Type:	Risk Assessment Report
Completed Date:	03/16/2010
Comments:	Not reported
Completed Area Name:	GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Plan
Completed Date:	05/12/2010
Comments:	Not reported
Completed Area Name:	SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	SURFACE WATER - Little Break, San Joaquin River, Lauritzen Yacht Harbor
Completed Document Type:	Risk Assessment Report
Completed Date:	04/22/2010
Comments:	Final SLERA for LB, LYH, and SJR. Inlcudes previously approved SLERA and Sediment Sampling Addendum. No furhter eco study neeeded for LB, SJR seds, and LYH.
Completed Area Name:	GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	Plume 3
Completed Document Type:	Other Report
Completed Date:	05/03/2010
Comments:	Not reported
Completed Area Name:	SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	SURFACE WATER - Central Slough and CS Channel
Completed Document Type:	Technical Workplan
Completed Date:	05/18/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	05/28/2010
Comments:	Preliminary Report Approved w/comments for Final Air Sampling Report
Completed Area Name:	Focus Area 1 (FA-1)
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	07/02/2010
Comments:	Not reported
Completed Area Name:	SOIL INVESTGATION AND REMEDIATION

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Sub Area Name: SWMU 4.2 West Basin
Completed Document Type: Technical Workplan
Completed Date: 07/14/2010
Comments: Not reported

Completed Area Name: Off-Site Investigations
Completed Sub Area Name: Lauritzen Yacht Harbor and Driftwood Marina
Completed Document Type: Technical Workplan
Completed Date: 02/01/2011
Comments: Not reported

Completed Area Name: Focus Area 3 (FA-3)
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/15/2011
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: SURFACE WATER - Central Slough and CS Channel
Completed Document Type: Risk Assessment Report
Completed Date: 01/10/2011
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: SURFACE WATER - Central Slough and CS Channel
Completed Document Type: Technical Report
Completed Date: 09/30/2010
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/11/2011
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/10/2011
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/23/2010
Comments: Report acceptable. Recommendaton require clarification for subsequent reports

Completed Area Name: SOIL INVESTGATION AND REMEDIATION
Completed Sub Area Name: SWMU 4.2 West Basin
Completed Document Type: Technical Report
Completed Date: 10/25/2010
Comments: Completed

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Date:	09/27/2010
Comments:	WP Approved by DTSC
Completed Area Name:	GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	09/28/2010
Comments:	Draft Work Plan Acceptaed as Final by DTSC
Completed Area Name:	GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	Plume 3
Completed Document Type:	Technical Workplan
Completed Date:	03/21/2011
Comments:	Completed WP for Plume 3 SG&GW Characterization Plume
Completed Area Name:	GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	Plume 1
Completed Document Type:	Technical Workplan
Completed Date:	04/04/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	01/28/2011
Comments:	This Report is an acknowledgement that the data can be used for an upcoming comprehensive ambient air report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	01/31/2011
Comments:	This report is a acknowledgement that the data can be used for a comprehensive ambient air sample report.
Completed Area Name:	GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name:	Plume 2
Completed Document Type:	Technical Workplan
Completed Date:	04/11/2011
Comments:	Not reported
Completed Area Name:	SOIL INVESTGATION AND REMEDIATION
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	06/06/2011
Comments:	Not reported
Completed Area Name:	Focus Area 1 (FA-1)
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	05/11/2011
Comments:	FA-1 Supplemental Report Approved
Completed Area Name:	SOIL INVESTGATION AND REMEDIATION
Completed Sub Area Name:	SWMU 4.38 RCRA Container Storage Building
Completed Document Type:	Other Report
Completed Date:	02/07/2011

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Comments: SWMU 4.38 - Clean-up activities completed in early 2000

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/03/2011
Comments: Plant Tissue Sampling report will be used to assess Phytoremediation as a remedial technology for VOCs in the Surficial Aquifer.

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/05/2011
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 03/08/2011
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Corrective Measures Study Report
Completed Date: 04/13/2012
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/02/2011
Comments: Not reported

Completed Area Name: Focus Area 2 (FA-2)
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/23/2011
Comments: Report was compelted and approved by DTSC. Additional Samples will be collected during FA-3 sampling efforts. An FA-2 RFI report is schedule to be submitted on 9/10/2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/20/2011
Comments: Approved

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/15/2011

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/26/2011
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 01/25/2012
Comments: Approved

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Technical Report
Completed Date: 02/27/2012
Comments: Not reported

Completed Area Name: Off-Site Investigations
Completed Sub Area Name: Lauritzen Yacht Harbor and Driftwood Marina
Completed Document Type: Technical Report
Completed Date: 08/15/2012
Comments: Not reported

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 11/29/2012
Comments: Focus Area 1 is determined Corrective Action Complete without controls
Not reported

Completed Area Name: Off-Site Investigations
Completed Sub Area Name: Lauritzen Yacht Harbor and Driftwood Marina
Completed Document Type: Technical Report
Completed Date: 05/09/2012
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/06/2011
Comments: Report Approved

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 1
Completed Document Type: Technical Workplan
Completed Date: 09/12/2011
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/14/2011
Comments: Not reported

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/23/2011
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 1
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 11/21/2011
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/16/2011
Comments: Approved

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/27/2011
Comments: Approved

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 01/27/2012
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 2
Completed Document Type: Technical Report
Completed Date: 02/27/2012
Comments: Not reported

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/02/2010
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 12/13/2011
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 01/03/2012
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: SURFACE WATER - Central Slough and CS Channel
Completed Document Type: Corrective Measures Study Report

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Date: 01/20/2012
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 01/03/2012
Comments: Not reported

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Report
Completed Date: 02/21/2012
Comments: REport is technically complete

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 1
Completed Document Type: Technical Report
Completed Date: 08/15/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/28/2012
Comments: Approved Attachment 7

Completed Area Name: Focus Area 4 (FA-4)
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 08/01/2012
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/09/2012
Comments: Not reported

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/24/2012
Comments: Approved

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/05/2012
Comments: Completed and Posted to Newspaper

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/05/2012
Comments: Not reported

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Fact Sheets
Completed Date: 10/22/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/03/2012
Comments: Not reported

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 07/25/2012
Comments: Not reported

Completed Area Name: Post Closure Permit
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Manual
Completed Date: 12/06/2012
Comments: O&M Plan Approved by EERP and ESPO

Completed Area Name: Focus Area 3 (FA-3)
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 01/21/2014
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 06/19/2013
Comments: Phase 3 RFI Report is approved

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 10/15/2013
Comments: Not reported

Completed Area Name: Off-Site Investigations
Completed Sub Area Name: Lauritzen Yacht Harbor and Driftwood Marina
Completed Document Type: Monitoring Report
Completed Date: 12/11/2012
Comments: Report Approved

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/09/2013
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Date: 12/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 10/31/2012
Comments: HASP Approved. RP to send AHA before each field task begins.

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 1
Completed Document Type: Technical Report
Completed Date: 12/03/2012
Comments: This report is preliminary information purposes only - does not need DTSC approval

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/28/2013
Comments: PCLs approved

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 03/28/2013
Comments: Not reported

Completed Area Name: Post Closure Permit
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/26/2013
Comments: Not reported

Completed Area Name: Focus Area 1 (FA-1)
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 02/15/2013
Comments: Fact Sheet

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/26/2013
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 07/09/2013
Comments: Not reported

Completed Area Name: Post Closure Permit
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 08/07/2013
Comments: Not reported

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/30/2013
Comments: Not reported

Completed Area Name: Focus Area 2 (FA-2)
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 02/17/2015
Comments: Not reported

Completed Area Name: Focus Area 4 (FA-4)
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 01/15/2016
Comments: Chemours responded to all of DTSC comments. The Document was approved as final

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/10/2013
Comments: Not reported

Completed Area Name: TiO2 Green Remediation Pilot Project
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 12/01/2014
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 1
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 03/25/2014
Comments: Document Final

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 1
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 03/05/2015
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 2
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 12/16/2015
Comments: Not reported

Completed Area Name: Off-Site Investigations
Completed Sub Area Name: Lauritzen Yacht Harbor and Driftwood Marina
Completed Document Type: Technical Report
Completed Date: 09/05/2014
Comments: Document Approved

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Document Type: Monitoring Report
Completed Date: 10/18/2013
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 2
Completed Document Type: Technical Report
Completed Date: 11/19/2013
Comments: No Comments or approval necessary from DTSC

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 11/13/2013
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 10/16/2013
Comments: Complete

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 01/21/2014
Comments: Not reported

Completed Area Name: SURFACE WATER AND SEDIMENT INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 06/05/2014
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 03/17/2015
Comments: Dupont submitted their FA package to FA unit on 3/30/2015

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Monitoring Report
Completed Date: 11/06/2014
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Interim Measures Implementation Report
Completed Date: 09/30/2014
Comments: Approved

Completed Area Name: Focus Area 4 (FA-4)
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 09/30/2014
Comments: Approved

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 11/17/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 04/07/2015
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 06/30/2015
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 2
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 04/15/2015
Comments: This document is for information only. This treatability study is a DuPont Corporate wide study to continue DuPont s efforts to develop innovative technologies that might be used to treated hazardous substances on their former manufacturing facilities. The results of the study may or may not result in this technology being applied at the Oakley Facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 08/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 06/12/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/23/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/06/2015

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/26/2015
Comments: This document describes a bench scale test that is being done corporate wide and does not need DTSC approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/26/2015
Comments: These document pertains to the WDRs and is a DTCS courtesy copy.

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Removal Action Completion Report
Completed Date: 06/30/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/13/2015
Comments: Document has been completed, revision 15 will be sent to us in July 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Report
Completed Date: 09/13/2016
Comments: The document was completed and the CEQA process has started.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/11/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Report
Completed Date: 06/06/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/15/2016
Comments: Not reported

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Remedial Action Completion Report
Completed Date: 10/04/2016
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Plume 3
Completed Document Type: Remedial Action Completion Report
Completed Date: 10/04/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/05/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/08/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/05/2016
Comments: 2016 Health & Safety Plan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/27/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/08/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/04/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/26/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

Completed Date: 04/07/2016
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 06/30/2016
Comments: completed

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 08/23/2016
Comments: Not reported

Completed Area Name: GROUNDWATER INVESTIGATION AND REMEDIATION
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/15/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/20/2017
Comments: The Technical was accepted by DTSC after requested revisions were made by Chemours

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 07/30/2018
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedy Construction Complete
Future Due Date: 2020
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Corrective Measure Implementation Workplan
Schedule Due Date: 01/27/2020
Schedule Revised Date: Not reported

DEED:
Name: CHEMOURS COMPANY FC LLC
Address: 6000 BRIDGEHEAD RD

CHEMOURS COMPANY FC LLC (Continued) **S122221907**

City,State,Zip: OAKLEY, CA 94561-2940
Envirostor ID: 80001610
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: CORRECTIVE ACTION
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

J45 **CHEMOURS OAKLEY** **SEMS-ARCHIVE** **1015732681**
East **6000 BRIDGEHEAD RD** **CORRACTS** **CAD009151671**
1/2-1 **OAKLEY, CA 94561** **RCRA-TSDF**
0.877 mi. **RCRA-LQG**
4631 ft. **Site 3 of 3 in cluster J** **US FIN ASSUR**
2020 COR ACTION
Relative: **ICIS**
Lower **FINDS**
ECHO
Actual:
20 ft.

SEMS Archive:
Site ID: 0901175
EPA ID: CAD009151671
Cong District: 07
FIPS Code: 06013
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 09
Site ID: 0901175
EPA ID: CAD009151671
Site Name: E I DUPONT DE NEMOURS & CO INC
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: Not reported
Finish Date: 1985-03-01 06:00:00
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901175
EPA ID: CAD009151671
Site Name: E I DUPONT DE NEMOURS & CO INC
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 2
Start Date: Not reported
Finish Date: 1988-11-23 05:00:00

CHEMOURS OAKLEY (Continued) **1015732681**

Qual:	D
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901175
EPA ID:	CAD009151671
Site Name:	E I DUPONT DE NEMOURS & CO INC
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1990-09-13 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse
Region:	09
Site ID:	0901175
EPA ID:	CAD009151671
Site Name:	E I DUPONT DE NEMOURS & CO INC
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1985-03-01 06:00:00
Qual:	H
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901175
EPA ID:	CAD009151671
Site Name:	E I DUPONT DE NEMOURS & CO INC
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1979-11-01 05:00:00
Finish Date:	1979-11-01 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901175
EPA ID:	CAD009151671
Site Name:	E I DUPONT DE NEMOURS & CO INC
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA

CHEMOURS OAKLEY (Continued) **1015732681**

SEQ: 3
Start Date: Not reported
Finish Date: 1990-09-13 04:00:00
Qual: N
Current Action Lead: EPA Perf

CORRACTS:

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2018-08-16 00:00:00.0
Action: CA300 - CMS Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2018-09-15 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2018-07-30 00:00:00.0
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2018-07-17 00:00:00.0
Action: CA260 - CMS Workplan Received
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2018-09-01 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2018-04-05 00:00:00.0
Action: CA380 - Date For Public Notice On Proposed Remedy
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2017-06-06 00:00:00.0
Action: CA350 - CMS Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2017-06-25 00:00:00.0
Schedule end date: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2017-05-01 00:00:00.0
Action: CA340 - CMS Report Received
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2017-08-01 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2016-09-13 00:00:00.0
Action: CA350 - CMS Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2016-07-13 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2016-01-28 00:00:00.0
Action: CA340 - CMS Report Received
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2016-04-01 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: PLUME 3
Actual Date: 2015-06-30 00:00:00.0
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2015-08-11 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2014-11-17 00:00:00.0
Action: CA300 - CMS Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2014-10-20 00:00:00.0
Action: CA260 - CMS Workplan Received
NAICS Code(s): 562910
Remediation Services

CHEMOURS OAKLEY (Continued) **1015732681**

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: PLUME 3
Actual Date: 2014-09-30 00:00:00.0
Action: CA650OT
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2014-10-30 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: PLUME 3
Actual Date: 2013-07-09 00:00:00.0
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: PLUME 3
Actual Date: 2012-04-13 00:00:00.0
Action: CA350 - CMS Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: PLUME 3
Actual Date: 2010-05-14 00:00:00.0
Action: CA340 - CMS Report Received
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2008-05-19 00:00:00.0
Action: CA200 - RFI Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2008-05-02 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2008-01-08 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Action: CA200 - RFI Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2007-09-14 00:00:00.0
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: WESTERN/EASTERN DEV AREAS & CLINE PROP
Actual Date: 2006-04-30 00:00:00.0
Action: CA999NF - Corrective Action Process Terminated, No Further Action
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2006-04-30 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: WESTERN/EASTERN DEV AREAS & CLINE PROP
Actual Date: 2006-04-30 00:00:00.0
Action: CA999NF - Corrective Action Process Terminated, No Further Action
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2006-04-30 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2005-05-04 00:00:00.0
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2005-05-04 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2004-11-10 00:00:00.0
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2004-07-26 00:00:00.0
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2004-07-09 00:00:00.0
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2003-06-17 00:00:00.0
Action: CA100 - RFI Imposition
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2003-07-17 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2001-01-10 00:00:00.0
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2001-01-10 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 2001-01-10 00:00:00.0
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 562910
Remediation Services
Original schedule date: 2001-01-10 00:00:00.0
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 1995-02-10 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Action:	CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s):	562910 Remediation Services
Original schedule date:	1995-02-10 00:00:00.0
Schedule end date:	Not reported
EPA ID:	CAD009151671
EPA Region:	09
Area Name:	FLOURIDE & IRON CHLORIDE SYST.
Actual Date:	1994-06-30 00:00:00.0
Action:	CA600GW - Stabilization Measures Implemented, Groundwater extraction and treatment
NAICS Code(s):	562910 Remediation Services
Original schedule date:	Not reported
Schedule end date:	Not reported
EPA ID:	CAD009151671
EPA Region:	09
Area Name:	ENTIRE FACILITY
Actual Date:	1993-06-30 00:00:00.0
Action:	CA050 - RFA Completed
NAICS Code(s):	562910 Remediation Services
Original schedule date:	1993-06-30 00:00:00.0
Schedule end date:	Not reported
EPA ID:	CAD009151671
EPA Region:	09
Area Name:	ENTIRE FACILITY
Actual Date:	1993-06-30 00:00:00.0
Action:	CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s):	562910 Remediation Services
Original schedule date:	1993-06-30 00:00:00.0
Schedule end date:	Not reported
EPA ID:	CAD009151671
EPA Region:	09
Area Name:	ENTIRE FACILITY
Actual Date:	1985-01-28 00:00:00.0
Action:	CA600SR - Stabilization Measures Implemented, Primary measure is source removal and/or treatment
NAICS Code(s):	562910 Remediation Services
Original schedule date:	Not reported
Schedule end date:	Not reported
EPA ID:	CAD009151671
EPA Region:	09

CHEMOURS OAKLEY (Continued) **1015732681**

Area Name: ENTIRE FACILITY
Actual Date: 1984-02-20 00:00:00.0
Action: CA200 - RFI Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009151671
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 1983-01-10 00:00:00.0
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 562910
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 2019-01-14 00:00:00.0
Facility name: CHEMOURS OAKLEY
Facility address: 6000 BRIDGEHEAD ROAD
OAKLEY, CA 94561-2940
EPA ID: CAD009151671
Mailing address: MARKET STREET
RM 12092A
WILMINGTON, DE 19801
Contact: KEVIN GARON
Contact address: MARKET STREET RM 12092A
WILMINGTON, DE 19801
Contact country: US
Contact telephone: 704-560-6435
Contact email: KEVIN.GARON@CHEMOURS.COM
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CHEMOURS FC, LLC
Owner/operator address: MARKET STREET
WILMINGTON, DE 19898

CHEMOURS OAKLEY (Continued) **1015732681**

Owner/operator country: US
Owner/operator telephone: 704-560-6435
Owner/operator email: KEVIN.GARON@CHEMOURS.COM
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2015-07-01 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: CHEMOURS FC, LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2015-07-01 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: CHEMOURS FC, LLC
Owner/operator address: MARKET STREET
WILMINGTON, DE 19898
Owner/operator country: US
Owner/operator telephone: 704-560-6435
Owner/operator email: KEVIN.GARON@CHEMOURS.COM
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 2015-07-01 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: CHEMOURS FC, LLC
Owner/operator address: MARKET STREET
WILMINGTON, DE 19898
Owner/operator country: US
Owner/operator telephone: 704-560-6435
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 2015-07-01 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No

CHEMOURS OAKLEY (Continued) **1015732681**

Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 2018-03-01 00:00:00.0
Site name: THE CHEMOURS COMPANY FC LLC
Classification: Small Quantity Generator

Date form received by agency: 2016-02-29 00:00:00.0
Site name: CHEMOURS OAKLEY
Classification: Large Quantity Generator

Date form received by agency: 2014-03-01 00:00:00.0
Site name: DUPONT OAKLEY
Classification: Large Quantity Generator

Date form received by agency: 2008-06-27 00:00:00.0
Site name: DUPONT OAKLEY SITE
Classification: Large Quantity Generator

Date form received by agency: 2002-02-15 00:00:00.0
Site name: E. I. DUPONT DE NEMOURS & CO
Classification: Small Quantity Generator

Date form received by agency: 2002-02-15 00:00:00.0
Site name: E. I. DUPONT DE NEMOURS & CO
Classification: Large Quantity Generator

Date form received by agency: 2000-10-12 00:00:00.0
Site name: E. I. DU PONT DE NEMOURS & CO
Classification: Large Quantity Generator

Date form received by agency: 1999-03-04 00:00:00.0
Site name: E. I. DU PONT DE NEMOURS & CO
Classification: Large Quantity Generator

Date form received by agency: 1996-09-01 00:00:00.0
Site name: E I DUPONT DE NEMOURS & CO INC
Classification: Large Quantity Generator

Date form received by agency: 1996-03-14 00:00:00.0
Site name: E. I. DU PONT DE NEMOURS & CO.
Classification: Large Quantity Generator

Date form received by agency: 1994-03-29 00:00:00.0
Site name: E I DUPONT DENEMOURS & CO
Classification: Large Quantity Generator

Date form received by agency: 1992-02-26 00:00:00.0
Site name: E I DUPONT DE NEMOURS & COMPAN
Classification: Large Quantity Generator

CHEMOURS OAKLEY (Continued) **1015732681**

Date form received by agency: 1991-02-25 00:00:00.0
Site name: E I DUPONT DE NEMOURS & CO INC
Classification: Large Quantity Generator

Date form received by agency: 1990-04-11 00:00:00.0
Site name: E.I. DUPONT DE NEMOURS & CO. INC.
Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB's

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 614
. Waste name: Treated wood waste

. Waste code: 731
. Waste name: Liquids with polychlorinated biphenyls > 50 mg/l

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D008
. Waste name: LEAD

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

CHEMOURS OAKLEY (Continued) **1015732681**

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: D043
. Waste name: VINYL CHLORIDE

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D008
Waste name: LEAD
Amount (Lbs): 1481760

Waste code: D039
Waste name: TETRACHLOROETHYLENE
Amount (Lbs): 100

Waste code: D040
Waste name: TRICHLOROETHYLENE
Amount (Lbs): 100

Waste code: D043
Waste name: VINYL CHLORIDE
Amount (Lbs): 100

Corrective Action Summary:
Event date: 1983-01-01 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 1983-01-10 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 1984-02-20 00:00:00.0
Event: INVESTIGATION COMPLETE

Event date: 1985-01-28 00:00:00.0
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

Event date: 1985-03-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1985-09-25 00:00:00.0
Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 1988-08-24 00:00:00.0
Event: PA OR CERCLA INSPECTION

CHEMOURS OAKLEY (Continued) **1015732681**

Event date:	1988-11-23 00:00:00.0
Event:	LEAD AGENCY DETERMINATION
Event date:	1988-11-23 00:00:00.0
Event:	PA OR CERCLA INSPECTION
Event date:	1988-11-23 00:00:00.0
Event:	NCAPS RANKING/PRIORITY
Event date:	1988-11-23 00:00:00.0
Event:	CA PRIORITIZATION-HIGH CA PRIORITY
Event date:	1990-06-18 00:00:00.0
Event:	DEFERRAL TO ANOTHER AGENCY
Event date:	1993-06-30 00:00:00.0
Event:	RFA COMPLETED
Event date:	1993-06-30 00:00:00.0
Event:	RFA COMPLETED-ASSESSMENT WAS A RFA
Event date:	1993-06-30 00:00:00.0
Event:	DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY
Event date:	1994-06-30 00:00:00.0
Event:	STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT
Event date:	1995-01-01 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	1995-01-01 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	1995-02-10 00:00:00.0
Event:	STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION
Event date:	1997-10-08 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	1997-10-08 00:00:00.0
Event:	STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
Event date:	1997-10-08 00:00:00.0
Event:	REFERRED TO A NON-RCRA AUTHORITY
Event date:	2001-01-10 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	2001-01-10 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

CHEMOURS OAKLEY (Continued) **1015732681**

Event date: 2001-01-10 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2001-01-10 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 2003-06-17 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 2003-06-17 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 2003-12-12 00:00:00.0
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 2004-02-13 00:00:00.0
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 2004-04-26 00:00:00.0
Event: INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED

Event date: 2004-05-04 00:00:00.0
Event: INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED

Event date: 2004-06-29 00:00:00.0
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 2004-07-09 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2004-07-26 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2004-11-10 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2005-05-04 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2005-05-04 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2005-05-04 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2006-03-22 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2006-04-30 00:00:00.0
Event: CA PROCESS IS TERMINATED-NO FURTHER ACTION

Event date: 2006-04-30 00:00:00.0
Event: CA PROCESS IS TERMINATED-NO FURTHER ACTION

Event date: 2007-05-31 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Event:	INVESTIGATION WORKPLAN RECEIVED
Event date:	2007-08-01 00:00:00.0
Event:	INVESTIGATION WORKPLAN RECEIVED
Event date:	2007-08-23 00:00:00.0
Event:	INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED
Event date:	2007-08-23 00:00:00.0
Event:	INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED
Event date:	2007-09-14 00:00:00.0
Event:	INVESTIGATION WORKPLAN APPROVED
Event date:	2007-09-25 00:00:00.0
Event:	INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED
Event date:	2007-10-09 00:00:00.0
Event:	INVESTIGATION WORKPLAN RECEIVED
Event date:	2007-10-31 00:00:00.0
Event:	CA805
Event date:	2007-11-20 00:00:00.0
Event:	INVESTIGATION REPORT RECEIVED
Event date:	2007-12-17 00:00:00.0
Event:	INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED
Event date:	2008-01-08 00:00:00.0
Event:	INVESTIGATION COMPLETE
Event date:	2008-01-25 00:00:00.0
Event:	CA805
Event date:	2008-02-12 00:00:00.0
Event:	CA805
Event date:	2008-05-02 00:00:00.0
Event:	INVESTIGATION REPORT RECEIVED
Event date:	2008-05-19 00:00:00.0
Event:	INVESTIGATION COMPLETE
Event date:	2008-06-18 00:00:00.0
Event:	INVESTIGATION REPORT RECEIVED
Event date:	2008-06-27 00:00:00.0
Event:	INVESTIGATION COMPLETE
Event date:	2008-12-19 00:00:00.0
Event:	INVESTIGATION REPORT RECEIVED
Event date:	2010-05-14 00:00:00.0
Event:	CMS REPORT RECEIVED
Event date:	2012-04-13 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Event: CMS COMPLETE

Event date: 2013-07-09 00:00:00.0
Event: CMI WORKPLAN APPROVED

Event date: 2014-09-30 00:00:00.0
Event: STABILIZATION CONSTRUCTION COMPLETED - OTHER

Event date: 2014-10-20 00:00:00.0
Event: CMS WORKPLAN RECEIVED

Event date: 2014-11-17 00:00:00.0
Event: CMS WORKPLAN APPROVED

Event date: 2015-06-30 00:00:00.0
Event: CMI WORKPLAN APPROVED

Event date: 2016-01-28 00:00:00.0
Event: CMS REPORT RECEIVED

Event date: 2016-09-13 00:00:00.0
Event: CMS COMPLETE

Event date: 2017-05-01 00:00:00.0
Event: CMS REPORT RECEIVED

Event date: 2017-06-06 00:00:00.0
Event: CMS COMPLETE

Event date: 2018-04-05 00:00:00.0
Event: DATE FOR PUBLIC NOTICE ON PROPOSED REMEDY

Event date: 2018-07-17 00:00:00.0
Event: CMS WORKPLAN RECEIVED

Event date: 2018-07-30 00:00:00.0
Event: CMI WORKPLAN APPROVED

Event date: 2018-08-16 00:00:00.0
Event: CMS WORKPLAN APPROVED

Event date: Not reported
Event: REEVALUATE IN FY

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 2012-02-27 00:00:00.0
Date achieved compliance: 2012-11-20 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2012-03-08 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Financial Requirements
Date violation determined: 2009-12-17 00:00:00.0
Date achieved compliance: 2010-05-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2010-02-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2009-09-29 00:00:00.0
Date achieved compliance: 2009-12-17 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2009-10-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 2007-08-24 00:00:00.0
Date achieved compliance: 2007-09-07 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2007-08-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 2004-09-03 00:00:00.0
Date achieved compliance: 2010-04-13 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2004-09-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Regulation violated:	FR - 262.50-60
Area of violation:	Generators - General
Date violation determined:	1996-05-14 00:00:00.0
Date achieved compliance:	1996-05-14 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1996-05-14 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 264.190-201.J
Area of violation:	TSD - General
Date violation determined:	1996-05-14 00:00:00.0
Date achieved compliance:	1996-06-14 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1996-05-14 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.30-34.C
Area of violation:	Generators - General
Date violation determined:	1996-05-14 00:00:00.0
Date achieved compliance:	1996-05-14 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1996-05-14 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.50-60
Area of violation:	Generators - General
Date violation determined:	1994-09-28 00:00:00.0
Date achieved compliance:	1994-11-03 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1994-10-04 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 264.10-18.B

CHEMOURS OAKLEY (Continued) **1015732681**

Area of violation:	TSD - General
Date violation determined:	1994-09-28 00:00:00.0
Date achieved compliance:	1994-09-28 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1994-10-04 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 264.190-201.J
Area of violation:	TSD - General
Date violation determined:	1994-09-28 00:00:00.0
Date achieved compliance:	1994-11-03 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1994-10-04 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 270
Area of violation:	TSD - General
Date violation determined:	1994-09-28 00:00:00.0
Date achieved compliance:	1994-09-28 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1994-10-04 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 264.10-18.B
Area of violation:	TSD - General
Date violation determined:	1994-02-03 00:00:00.0
Date achieved compliance:	1994-09-28 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1994-02-07 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.50-60
Area of violation:	Generators - General

CHEMOURS OAKLEY (Continued) **1015732681**

Date violation determined: 1994-02-03 00:00:00.0
Date achieved compliance: 1994-11-03 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-06-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 200000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1994-02-03 00:00:00.0
Date achieved compliance: 1994-11-03 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1994-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1994-02-03 00:00:00.0
Date achieved compliance: 1994-11-03 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-06-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 200000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 1994-02-03 00:00:00.0
Date achieved compliance: 1994-09-28 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-06-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 200000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 1994-02-03 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Date achieved compliance: 1994-11-03 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1994-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1990-12-11 00:00:00.0
Date achieved compliance: 1991-01-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-01-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-01-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-01-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State

CHEMOURS OAKLEY (Continued) **1015732681**

Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-01-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

CHEMOURS OAKLEY (Continued) **1015732681**

Enforcement action date: 1989-02-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1991-01-11 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1991-01-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-02-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1991-01-11 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1988-11-01 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-11-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 1988-03-31 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 1988-03-31 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 1988-03-31 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 1988-03-31 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2019-05-02 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2017-02-23 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2017-02-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2016-05-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2014-05-06 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2014-01-16 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-07-09 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-02-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 2012-11-20 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2011-10-07 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2011-06-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2010-05-19 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

CHEMOURS OAKLEY (Continued) **1015732681**

Evaluation date: 2009-12-17 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-12-17 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD IS-Financial Requirements
Date achieved compliance: 2010-05-19 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2009-09-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2009-12-17 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-08-24 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 2007-09-07 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-06-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-04-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2005-09-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 2004-09-03 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 2010-04-13 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2004-06-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1998-06-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1996-05-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1996-05-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1996-05-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1996-06-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-08-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-09-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-08-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-11-03 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-08-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1994-11-03 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-11-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-11-03 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-11-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-09-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-11-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1994-11-03 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-10-01 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

CHEMOURS OAKLEY (Continued) **1015732681**

Evaluation date: 1992-09-10 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1992-07-23 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1992-03-23 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1990-12-18 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1990-12-11 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1991-01-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-11-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1990-12-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-11-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-12-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-11-21 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1988-11-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1990-12-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-11-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General

CHEMOURS OAKLEY (Continued) **1015732681**

Date achieved compliance: 1991-01-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-11-01 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-06-14 00:00:00.0
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1988-03-31 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-03-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-03-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-03-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-11-02 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

RCRA-LQG:
Date form received by agency: 2019-01-14 00:00:00.0
Facility name: CHEMOURS OAKLEY
Facility address: 6000 BRIDGEHEAD ROAD
OAKLEY, CA 94561-2940
EPA ID: CAD009151671
Mailing address: MARKET STREET
RM 12092A
WILMINGTON, DE 19801
Contact: KEVIN GARON
Contact address: MARKET STREET RM 12092A
WILMINGTON, DE 19801
Contact country: US

CHEMOURS OAKLEY (Continued) **1015732681**

Contact telephone:	704-560-6435
Contact email:	KEVIN.GARON@CHEMOURS.COM
EPA Region:	09
Land type:	Private
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CHEMOURS FC, LLC
Owner/operator address:	MARKET STREET
	WILMINGTON, DE 19898
Owner/operator country:	US
Owner/operator telephone:	704-560-6435
Owner/operator email:	KEVIN.GARON@CHEMOURS.COM
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	2015-07-01 00:00:00.0
Owner/Op end date:	Not reported

Owner/operator name:	CHEMOURS FC, LLC
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	2015-07-01 00:00:00.0
Owner/Op end date:	Not reported

Owner/operator name:	CHEMOURS FC, LLC
Owner/operator address:	MARKET STREET
	WILMINGTON, DE 19898
Owner/operator country:	US
Owner/operator telephone:	704-560-6435
Owner/operator email:	KEVIN.GARON@CHEMOURS.COM
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private

CHEMOURS OAKLEY (Continued) **1015732681**

Owner/Operator Type: Owner
Owner/Op start date: 2015-07-01 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: CHEMOURS FC, LLC
Owner/operator address: MARKET STREET
WILMINGTON, DE 19898
Owner/operator country: US
Owner/operator telephone: 704-560-6435
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 2015-07-01 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2018-03-01 00:00:00.0
Site name: THE CHEMOURS COMPANY FC LLC
Classification: Small Quantity Generator

Date form received by agency: 2016-02-29 00:00:00.0
Site name: CHEMOURS OAKLEY
Classification: Large Quantity Generator

Date form received by agency: 2014-03-01 00:00:00.0
Site name: DUPONT OAKLEY
Classification: Large Quantity Generator

Date form received by agency: 2008-06-27 00:00:00.0
Site name: DUPONT OAKLEY SITE
Classification: Large Quantity Generator

Date form received by agency: 2002-02-15 00:00:00.0
Site name: E. I. DUPONT DE NEMOURS & CO
Classification: Small Quantity Generator

Date form received by agency: 2002-02-15 00:00:00.0

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Site name: E. I. DUPONT DE NEMOURS & CO
Classification: Large Quantity Generator

Date form received by agency: 2000-10-12 00:00:00.0
Site name: E. I. DU PONT DE NEMOURS & CO
Classification: Large Quantity Generator

Date form received by agency: 1999-03-04 00:00:00.0
Site name: E. I. DU PONT DE NEMOURS & CO
Classification: Large Quantity Generator

Date form received by agency: 1996-09-01 00:00:00.0
Site name: E I DUPONT DE NEMOURS & CO INC
Classification: Large Quantity Generator

Date form received by agency: 1996-03-14 00:00:00.0
Site name: E. I. DU PONT DE NEMOURS & CO.
Classification: Large Quantity Generator

Date form received by agency: 1994-03-29 00:00:00.0
Site name: E I DUPONT DENEMOURS & CO
Classification: Large Quantity Generator

Date form received by agency: 1992-02-26 00:00:00.0
Site name: E I DUPONT DE NEMOURS & COMPAN
Classification: Large Quantity Generator

Date form received by agency: 1991-02-25 00:00:00.0
Site name: E I DUPONT DE NEMOURS & CO INC
Classification: Large Quantity Generator

Date form received by agency: 1990-04-11 00:00:00.0
Site name: E.I. DUPONT DE NEMOURS & CO. INC.
Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB’s

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

CHEMOURS OAKLEY (Continued) **1015732681**

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 614
. Waste name: Treated wood waste

. Waste code: 731
. Waste name: Liquids with polychlorinated biphenyls > 50 mg/l

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D008
. Waste name: LEAD

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: D043
. Waste name: VINYL CHLORIDE

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D008
Waste name: LEAD
Amount (Lbs): 1481760

Waste code: D039
Waste name: TETRACHLOROETHYLENE
Amount (Lbs): 100

Waste code: D040
Waste name: TRICHLOROETHYLENE
Amount (Lbs): 100

Waste code: D043
Waste name: VINYL CHLORIDE

CHEMOURS OAKLEY (Continued) **1015732681**

Amount (Lbs): 100

Corrective Action Summary:

Event date: 1983-01-01 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 1983-01-10 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 1984-02-20 00:00:00.0
Event: INVESTIGATION COMPLETE

Event date: 1985-01-28 00:00:00.0
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

Event date: 1985-03-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1985-09-25 00:00:00.0
Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 1988-08-24 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1988-11-23 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1988-11-23 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1988-11-23 00:00:00.0
Event: NCAPS RANKING/PRIORITY

Event date: 1988-11-23 00:00:00.0
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 1990-06-18 00:00:00.0
Event: DEFERRAL TO ANOTHER AGENCY

Event date: 1993-06-30 00:00:00.0
Event: RFA COMPLETED

Event date: 1993-06-30 00:00:00.0
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 1993-06-30 00:00:00.0
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 1994-06-30 00:00:00.0
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 1995-01-01 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

CHEMOURS OAKLEY (Continued) **1015732681**

Event date:	1995-01-01 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	1995-02-10 00:00:00.0
Event:	STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION
Event date:	1997-10-08 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	1997-10-08 00:00:00.0
Event:	STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
Event date:	1997-10-08 00:00:00.0
Event:	REFERRED TO A NON-RCRA AUTHORITY
Event date:	2001-01-10 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	2001-01-10 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	2001-01-10 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	2001-01-10 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	2003-06-17 00:00:00.0
Event:	INVESTIGATION IMPOSITION
Event date:	2003-06-17 00:00:00.0
Event:	INVESTIGATION IMPOSITION
Event date:	2003-12-12 00:00:00.0
Event:	INVESTIGATION WORKPLAN RECEIVED
Event date:	2004-02-13 00:00:00.0
Event:	INVESTIGATION WORKPLAN RECEIVED
Event date:	2004-04-26 00:00:00.0
Event:	INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED
Event date:	2004-05-04 00:00:00.0
Event:	INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED
Event date:	2004-06-29 00:00:00.0
Event:	INVESTIGATION WORKPLAN RECEIVED
Event date:	2004-07-09 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2004-07-26 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2004-11-10 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2005-05-04 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2005-05-04 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2005-05-04 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2006-03-22 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2006-04-30 00:00:00.0
Event: CA PROCESS IS TERMINATED-NO FURTHER ACTION

Event date: 2006-04-30 00:00:00.0
Event: CA PROCESS IS TERMINATED-NO FURTHER ACTION

Event date: 2007-05-31 00:00:00.0
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 2007-08-01 00:00:00.0
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 2007-08-23 00:00:00.0
Event: INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED

Event date: 2007-08-23 00:00:00.0
Event: INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED

Event date: 2007-09-14 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2007-09-25 00:00:00.0
Event: INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED

Event date: 2007-10-09 00:00:00.0
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 2007-10-31 00:00:00.0
Event: CA805

Event date: 2007-11-20 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2007-12-17 00:00:00.0
Event: INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED

Event date: 2008-01-08 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Event:	INVESTIGATION COMPLETE
Event date:	2008-01-25 00:00:00.0
Event:	CA805
Event date:	2008-02-12 00:00:00.0
Event:	CA805
Event date:	2008-05-02 00:00:00.0
Event:	INVESTIGATION REPORT RECEIVED
Event date:	2008-05-19 00:00:00.0
Event:	INVESTIGATION COMPLETE
Event date:	2008-06-18 00:00:00.0
Event:	INVESTIGATION REPORT RECEIVED
Event date:	2008-06-27 00:00:00.0
Event:	INVESTIGATION COMPLETE
Event date:	2008-12-19 00:00:00.0
Event:	INVESTIGATION REPORT RECEIVED
Event date:	2010-05-14 00:00:00.0
Event:	CMS REPORT RECEIVED
Event date:	2012-04-13 00:00:00.0
Event:	CMS COMPLETE
Event date:	2013-07-09 00:00:00.0
Event:	CMI WORKPLAN APPROVED
Event date:	2014-09-30 00:00:00.0
Event:	STABILIZATION CONSTRUCTION COMPLETED - OTHER
Event date:	2014-10-20 00:00:00.0
Event:	CMS WORKPLAN RECEIVED
Event date:	2014-11-17 00:00:00.0
Event:	CMS WORKPLAN APPROVED
Event date:	2015-06-30 00:00:00.0
Event:	CMI WORKPLAN APPROVED
Event date:	2016-01-28 00:00:00.0
Event:	CMS REPORT RECEIVED
Event date:	2016-09-13 00:00:00.0
Event:	CMS COMPLETE
Event date:	2017-05-01 00:00:00.0
Event:	CMS REPORT RECEIVED
Event date:	2017-06-06 00:00:00.0
Event:	CMS COMPLETE
Event date:	2018-04-05 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Event: DATE FOR PUBLIC NOTICE ON PROPOSED REMEDY

Event date: 2018-07-17 00:00:00.0
Event: CMS WORKPLAN RECEIVED

Event date: 2018-07-30 00:00:00.0
Event: CMI WORKPLAN APPROVED

Event date: 2018-08-16 00:00:00.0
Event: CMS WORKPLAN APPROVED

Event date: Not reported
Event: REEVALUATE IN FY

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 2012-02-27 00:00:00.0
Date achieved compliance: 2012-11-20 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2012-03-08 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Financial Requirements
Date violation determined: 2009-12-17 00:00:00.0
Date achieved compliance: 2010-05-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2010-02-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2009-09-29 00:00:00.0
Date achieved compliance: 2009-12-17 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2009-10-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 2007-08-24 00:00:00.0
Date achieved compliance: 2007-09-07 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2007-08-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 2004-09-03 00:00:00.0
Date achieved compliance: 2010-04-13 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2004-09-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 1996-05-14 00:00:00.0
Date achieved compliance: 1996-05-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1996-05-14 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1996-05-14 00:00:00.0
Date achieved compliance: 1996-06-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1996-05-14 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.30-34.C

CHEMOURS OAKLEY (Continued) **1015732681**

Area of violation:	Generators - General
Date violation determined:	1996-05-14 00:00:00.0
Date achieved compliance:	1996-05-14 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1996-05-14 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.50-60
Area of violation:	Generators - General
Date violation determined:	1994-09-28 00:00:00.0
Date achieved compliance:	1994-11-03 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1994-10-04 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 264.10-18.B
Area of violation:	TSD - General
Date violation determined:	1994-09-28 00:00:00.0
Date achieved compliance:	1994-09-28 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1994-10-04 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 264.190-201.J
Area of violation:	TSD - General
Date violation determined:	1994-09-28 00:00:00.0
Date achieved compliance:	1994-11-03 00:00:00.0
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	1994-10-04 00:00:00.0
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 270
Area of violation:	TSD - General

CHEMOURS OAKLEY (Continued) **1015732681**

Date violation determined: 1994-09-28 00:00:00.0
Date achieved compliance: 1994-09-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1994-10-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 1994-02-03 00:00:00.0
Date achieved compliance: 1994-09-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1994-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 1994-02-03 00:00:00.0
Date achieved compliance: 1994-11-03 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-06-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 200000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1994-02-03 00:00:00.0
Date achieved compliance: 1994-11-03 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1994-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1994-02-03 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Date achieved compliance: 1994-11-03 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-06-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 200000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 1994-02-03 00:00:00.0
Date achieved compliance: 1994-09-28 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-06-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 200000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 1994-02-03 00:00:00.0
Date achieved compliance: 1994-11-03 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1994-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1990-12-11 00:00:00.0
Date achieved compliance: 1991-01-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-01-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-01-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-01-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State

CHEMOURS OAKLEY (Continued) **1015732681**

Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-11-27 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

CHEMOURS OAKLEY (Continued) **1015732681**

Enforcement action date: 1990-01-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-02-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1991-01-11 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1990-12-11 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0

CHEMOURS OAKLEY (Continued) **1015732681**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1991-01-11 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-02-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-11-30 00:00:00.0
Date achieved compliance: 1991-01-11 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1988-11-01 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-11-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 1988-03-31 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 1988-03-31 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 1988-03-31 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 1988-03-31 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

CHEMOURS OAKLEY (Continued) **1015732681**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1991-09-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

CHEMOURS OAKLEY (Continued) **1015732681**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1988-03-29 00:00:00.0
Date achieved compliance: 1989-03-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-03 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2019-05-02 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2017-02-23 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2017-02-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2016-05-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2014-05-06 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2014-01-16 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-07-09 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW

CHEMOURS OAKLEY (Continued) **1015732681**

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-02-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 2012-11-20 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2011-10-07 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2011-06-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2010-05-19 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-12-17 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-12-17 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD IS-Financial Requirements
Date achieved compliance: 2010-05-19 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2009-09-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2009-12-17 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-08-24 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 2007-09-07 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-06-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

CHEMOURS OAKLEY (Continued) **1015732681**

Evaluation date: 2007-04-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2005-09-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 2004-09-03 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 2010-04-13 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2004-06-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1998-06-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1996-05-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1996-05-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1996-05-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1996-06-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-08-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-09-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-08-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-11-03 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-08-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General

CHEMOURS OAKLEY (Continued) **1015732681**

Date achieved compliance: 1994-11-03 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-11-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-11-03 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-11-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-09-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-11-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1994-11-03 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-10-01 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1992-09-10 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1992-07-23 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1992-03-23 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1990-12-18 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1990-12-11 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1991-01-11 00:00:00.0
Evaluation lead agency: State

CHEMOURS OAKLEY (Continued) **1015732681**

Evaluation date: 1989-11-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1990-12-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-11-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-12-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-11-21 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1988-11-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1990-12-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-11-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1991-01-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-11-01 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-06-14 00:00:00.0
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1988-03-31 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-03-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-03-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure

CHEMOURS OAKLEY (Continued) **1015732681**

Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-03-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1989-03-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-11-02 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

US FIN ASSUR:
EPA ID: CAD009151671
County: Not reported
Mechanism type: B
Mechanism Type Description: SURETY BOND GUARANTEEING PAYMENTS TO A TRUST FUND
Cost estimate: 18069306
Face value: 18069306
Effective date: 2015-07-01 00:00:00
Provider: FIDELITY AND DEPOSIT CO. OF MARYLAND AND ZURICH AMERICAN INSURANCE
EPA region: 9

EPA ID: CAD009151671
County: Not reported
Mechanism type: X
Mechanism Type Description: STANDBY TRUST FUND
Cost estimate: 15000000
Face value: 0
Effective date: 2015-12-02 00:00:00
Provider: CITIBANK N.A.
EPA region: 9

EPA ID: CAD009151671
County: Not reported
Mechanism type: S
Mechanism Type Description: SURETY BOND GUARANTEEING PERFORMANCE
Cost estimate: 15000000
Face value: 18069306
Effective date: 2015-07-01 00:00:00
Provider: FIDELITY & DEPOSIT CO OF MARYLAND
EPA region: 9

EPA ID: CAD009151671
County: Not reported
Mechanism type: X
Mechanism Type Description: STANDBY TRUST FUND
Cost estimate: 18069306
Face value: 0
Effective date: 2015-12-02 00:00:00
Provider: CITIBANK N.A.
EPA region: 9

2020 COR ACTION:

CHEMOURS OAKLEY (Continued) **1015732681**

EPA ID: CAD009151671
Region: 9
Action: Not reported

ICIS:
Enforcement Action ID: 09-2000-0294
FRS ID: 110042051221
Action Name: DUPONT INCORPORATED
Facility Name: DU PONT ANTIOCH WORKS
Facility Address: 6000 BRIDGEHEAD RD.
OAKLEY, CA 945612490
Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: CONTRA COSTA
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 325
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.013151
Longitude in Decimal Degrees: -121.745763
Permit Type Desc: Not reported
Program System Acronym: 24773
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N

CHEMOURS OAKLEY (Continued) **1015732681**

Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

Facility Name: DU PONT ANTIOCH WORKS
Address: 6000 BRIDGEHEAD ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2816

FINDS:

Registry ID: 110042051221

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that

CHEMOURS OAKLEY (Continued) **1015732681**

these facilities release directly to air, water, land, or that are transported off-site.

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.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1015732681
Registry ID:	110042051221
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110042051221

46
SSE
1/2-1
0.997 mi.
5265 ft.

OAKLEY ROAD METERING SITE **ENVIROSTOR** **S116165414**
OAKLEY RD. & PHILLIPS LN. **N/A**
ANTIOCH, CA 94509

Relative:
Higher

Actual:
79 ft.

ENVIROSTOR:

Name:	OAKLEY ROAD METERING SITE
Address:	OAKLEY RD. & PHILLIPS LN.
City,State,Zip:	ANTIOCH, CA 94509

OAKLEY ROAD METERING SITE (Continued) **S116165414**

Facility ID:	7490002
Status:	Refer: RWQCB
Status Date:	08/28/2002
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.7
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	11
Senate:	07
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.9975
Longitude:	-121.7597
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* HYDROCARBON SOLVENTS Polychlorinated biphenyls (PCBs
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ANTIOCH	S122221900	DUPONT DE NEMOURS & CO INC	6000 BRIDGEHEAD ROAD	94509	ENVIROSTOR, DEED

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 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

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: N/A
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/04/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/13/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 14

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/13/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 57

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 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 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 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
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 07/02/2019
Date Data Arrived at EDR: 10/16/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 8

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 12/03/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 75

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 12/03/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 59

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/01/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 09/24/2019
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 7

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

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

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/11/2019
Number of Days to Update: 70

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 7

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 89

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/06/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 58

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 79

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/07/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/08/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 370

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 09/30/2018
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 106

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/23/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 14
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 10/07/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/20/2019
Date Data Arrived at EDR: 06/20/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 49
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/06/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 85

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 78

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/16/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2019
Next Scheduled EDR Contact: 01/19/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/21/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 82

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/15/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 11/20/2019
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 12/09/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 09/17/2019
Date Data Arrived at EDR: 09/18/2019
Date Made Active in Reports: 12/03/2019
Number of Days to Update: 76

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/27/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 76

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/27/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 37

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 12/03/2019
Number of Days to Update: 90

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 07/06/2019
Date Data Arrived at EDR: 07/09/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/08/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/10/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 83
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 10/31/2019
Date Data Arrived at EDR: 11/01/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 40
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/28/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 55
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 09/27/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37
Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60
Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

EMI: Emissions Inventory Data

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

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 59
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/18/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/22/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 66
Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 10/30/2019
Next Scheduled EDR Contact: 02/02/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 69
Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/16/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 05/29/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 54

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

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

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/07/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 30

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/08/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/13/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 64
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/16/2019
Date Data Arrived at EDR: 09/18/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 11/18/2019
Number of Days to Update: 90
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 7

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 10/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 34

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 51

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/05/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/23/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/23/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 60

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 43

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/12/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 49

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/08/2019
Date Data Arrived at EDR: 10/10/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 62

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/08/2019
Date Data Arrived at EDR: 07/10/2019
Date Made Active in Reports: 09/20/2019
Number of Days to Update: 72

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 10/30/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/06/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 63

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/16/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/15/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/22/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 10/04/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 34

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/15/2019
Date Data Arrived at EDR: 07/17/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 71

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/16/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/27/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/18/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/27/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/27/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/15/2019
Date Data Arrived at EDR: 07/17/2019
Date Made Active in Reports: 08/05/2019
Number of Days to Update: 19
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/22/2019
Date Data Arrived at EDR: 08/26/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 64

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/25/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 53

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 08/21/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 58

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/25/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 62

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/30/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/30/2019
Date Data Arrived at EDR: 10/30/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 42

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/09/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 61
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/06/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 64
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/05/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 61
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 07/11/2019
Date Made Active in Reports: 09/20/2019
Number of Days to Update: 71
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/16/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 07/11/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/16/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/06/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/01/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/07/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 38

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/01/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 07/16/2019
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 09/24/2019
Number of Days to Update: 70

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/16/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 69

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 07/30/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 67

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/18/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 29

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 36

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 07/18/2019
Date Data Arrived at EDR: 07/18/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 70

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 64

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 64

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 63

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/25/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 63
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 07/26/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/10/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/25/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 30
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/25/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 07/26/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/14/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 08/05/2019
Number of Days to Update: 83

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/11/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/06/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

416523
2600 WILBUR AVENUE
ANTIOCH, CA 94509

TARGET PROPERTY COORDINATES

Latitude (North):	38.011652 - 38° 0' 41.95''
Longitude (West):	121.769107 - 121° 46' 8.79''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	608056.8
UTM Y (Meters):	4207617.0
Elevation:	29 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5619678 ANTIOCH NORTH, CA
Version Date:	2012
Northeast Map:	5629060 JERSEY ISLAND, CA
Version Date:	2012
Southeast Map:	5640376 BRENTWOOD, CA
Version Date:	2012
Southwest Map:	5640044 ANTIOCH SOUTH, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

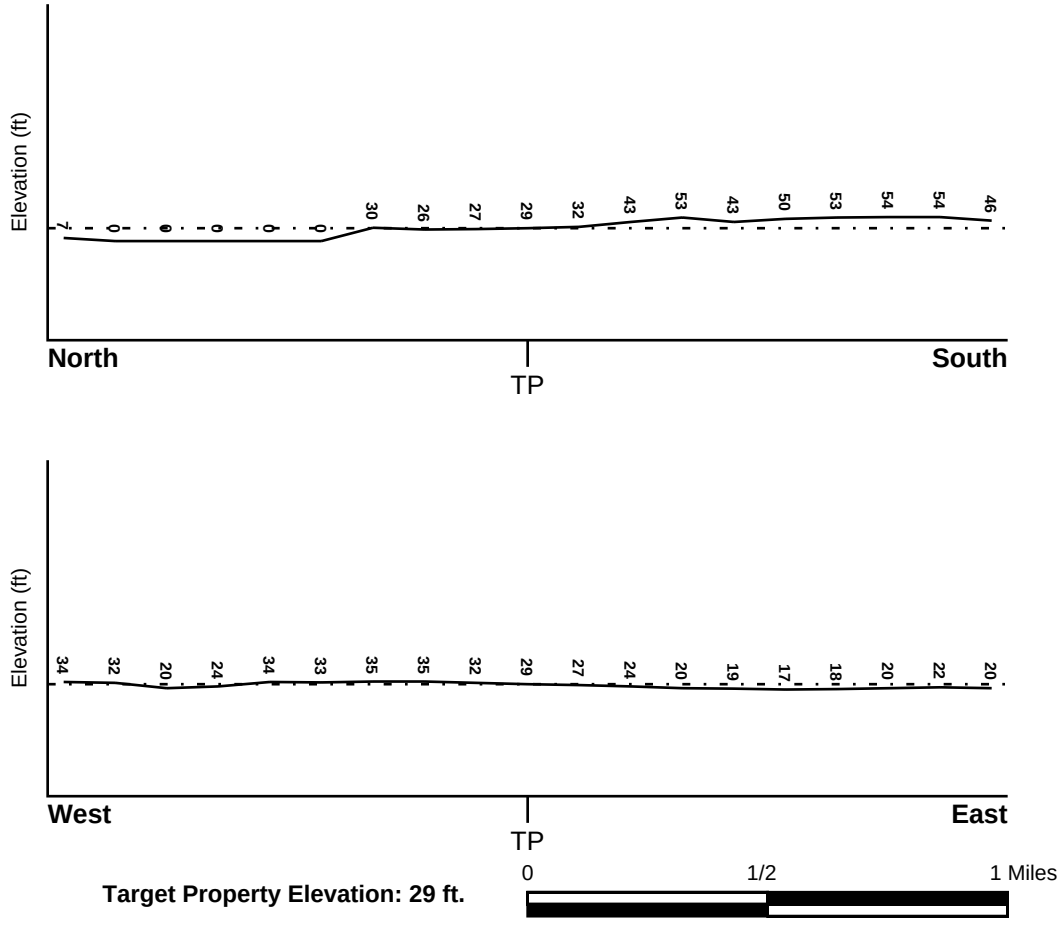
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 29 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06013C0144G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06013C0143G	FEMA FIRM Flood data
06013C0332F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
ANTIOCH NORTH	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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

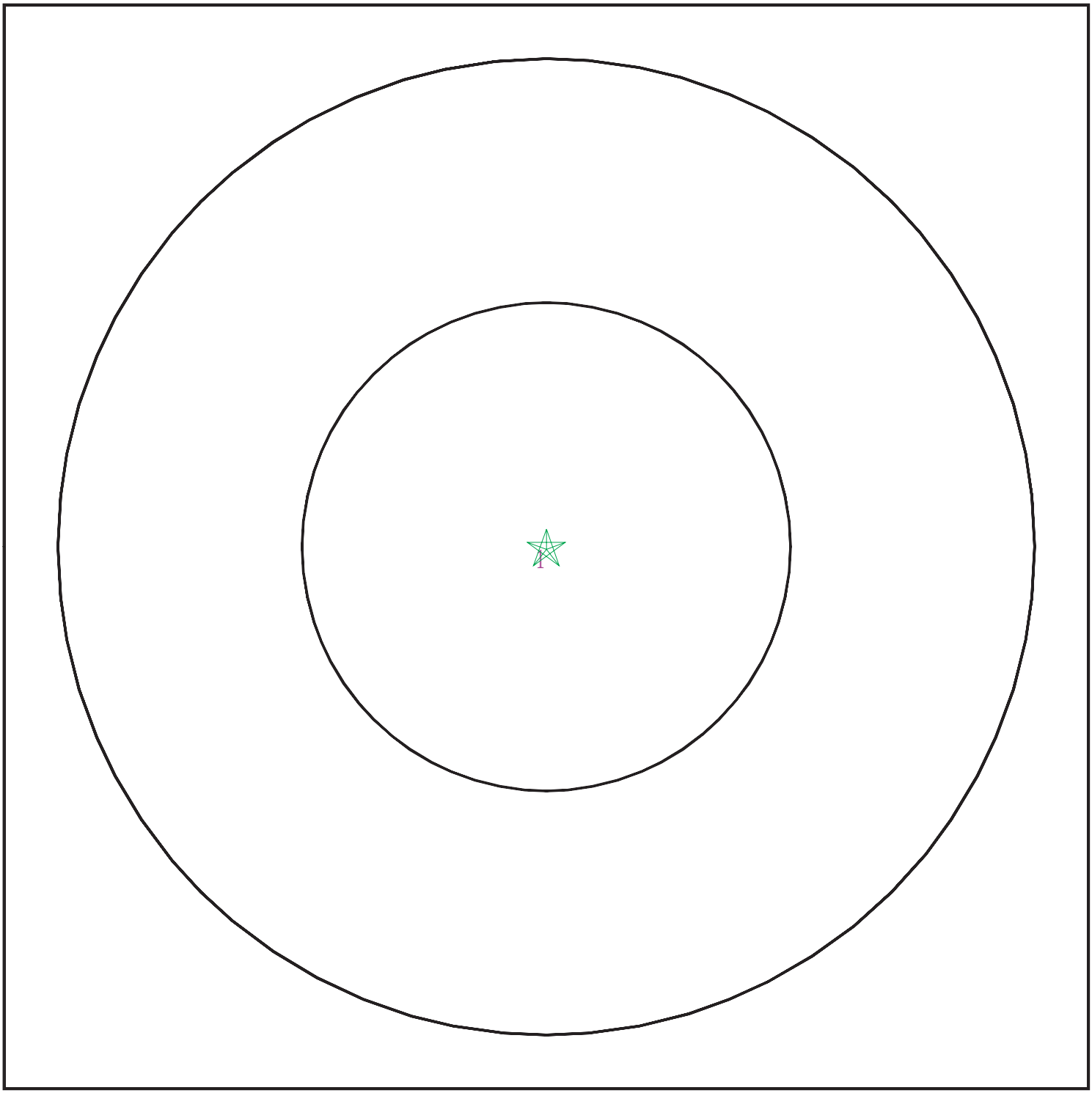
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5903838.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	416523	CLIENT:	AEI Consultants
ADDRESS:	2600 Wilbur Avenue Antioch CA 94509	CONTACT:	Nikki Alfaro
		INQUIRY #:	5903838.2s
LAT/LONG:	38.011652 / 121.769107	DATE:	December 12, 2019 5:50 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: DELHI

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.6
2	5 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS40000186533	0 - 1/8 Mile West
A3	USGS40000186541	1/8 - 1/4 Mile NNW
A4	USGS40000186542	1/8 - 1/4 Mile NNW
9	USGS40000186488	1/4 - 1/2 Mile South
10	USGS40000186480	1/2 - 1 Mile South
11	USGS40000186484	1/2 - 1 Mile SSE
12	USGS40000186492	1/2 - 1 Mile SW
13	USGS40000186543	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	1679	0 - 1/8 Mile NNW
B5	CADWR8000036932	1/8 - 1/4 Mile NE
B6	CADWR8000036933	1/8 - 1/4 Mile NE
7	1680	1/8 - 1/4 Mile SW
8	1682	1/4 - 1/2 Mile ESE
14	1683	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 5903838.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 416523	CLIENT: AEI Consultants
ADDRESS: 2600 Wilbur Avenue Antioch CA 94509	CONTACT: Nikki Alfaro INQUIRY #: 5903838.2s
LAT/LONG: 38.011652 / 121.769107	DATE: December 12, 2019 5:50 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NNW
0 - 1/8 Mile
Higher

CA WELLS **1679**

Seq:	1679	Prim sta c:	02N/02E-20A01 M
Frds no:	0707522001	County:	07
District:	37	User id:	07C
System no:	0707522	Water type:	G
Source nam:	WELL 03	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	380046.0	Longitude:	1214608.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	0707522	System nam:	Louisiana Pacific
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

2
West
0 - 1/8 Mile
Higher

FED USGS **USGS40000186533**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N002E20A001M	Type:	Well
Description:	Not Reported	HUC:	18040007
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19480101	Well Depth:	78
Well Depth Units:	ft	Well Hole Depth:	78
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1948-01-01
Feet below surface:	31.00	Feet to sea level:	Not Reported
Note:	Not Reported		

A3
NNW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000186541**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N002E17R002M	Type:	Well
Description:	Not Reported	HUC:	18040007
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		

Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	67
Well Depth Units:	ft	Well Hole Depth:	67
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	28	Level reading date:	1982-09-24
Feet below surface:	24.86	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1982-04-28	Feet below surface:	23.98
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-09-17	Feet below surface:	26.72
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-04-20	Feet below surface:	26.47
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-09-26	Feet below surface:	25.35
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-04-10	Feet below surface:	24.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-09-24	Feet below surface:	26.15
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-04-17	Feet below surface:	25.46
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-09-25	Feet below surface:	26.36
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1978-04-20	Feet below surface:	24.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-09-13	Feet below surface:	28.14
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1977-04-26	Feet below surface:	29.17
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1976-09-16	Feet below surface:	28.63
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1976-04-14	Feet below surface:	26.29
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1975-09-17	Feet below surface:	27.87
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1975-04-08	Feet below surface:	26.33
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1974-09-24	Feet below surface:	27.03
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1974-03-12	Feet below surface:	24.97
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1973-10-04	Feet below surface:	28.64
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1973-05-24	Feet below surface:	24.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-22	Feet below surface:	25.23
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1973-02-20	Feet below surface:	25.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-24	Feet below surface:	26.00
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1972-12-20	Feet below surface:	26.89
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1972-11-15	Feet below surface:	28.91
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1972-09-20	Feet below surface:	28.62
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1972-08-23	Feet below surface:	26.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-07-20	Feet below surface:	25.95
Feet to sea level:	Not Reported	Note:	Not Reported

A4
NNW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000186542**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N002E17R003M	Type:	Well
Description:	Not Reported	HUC:	18040007
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19720301	Well Depth:	102
Well Depth Units:	ft	Well Hole Depth:	102
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	8	Level reading date:	1982-09-24
Feet below surface:	24.38	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-04-28	Feet below surface:	23.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-17	Feet below surface:	25.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-20	Feet below surface:	24.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-26	Feet below surface:	24.47
Feet to sea level:	Not Reported		
Note:	Foreign substance was present on the surface of the water.		
Level reading date:	1980-04-10	Feet below surface:	21.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	25.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-20	Feet below surface:	23.73
Feet to sea level:	Not Reported	Note:	Not Reported

B5
NE
1/8 - 1/4 Mile
Lower

CA WELLS **CADWR8000036932**

State Well #:	02N02E16M999M	Station ID:	50377
Well Name:	Wilbur Shallow	Well Use:	Observation
Well Type:	Part of a nested/multi-completion well		
Well Depth:	81	Basin Name:	Tracy
Well Completion Rpt #:	e0138090A-B		

B6
NE
1/8 - 1/4 Mile
Lower

CA WELLS **CADWR8000036933**

State Well #:	02N02E16M998M	Station ID:	50410
Well Name:	Wilbur Deep	Well Use:	Observation
Well Type:	Part of a nested/multi-completion well		
Well Depth:	106	Basin Name:	Tracy
Well Completion Rpt #:	e0138090A-B		

7
SW
1/8 - 1/4 Mile
Higher

CA WELLS **1680**

Seq:	1680	Prim sta c:	02N/02E-20A02 M
Frds no:	0707506001	County:	07
District:	37	User id:	07C
System no:	0707506	Water type:	G

Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	380035.0	Longitude:	1214614.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	0707506	System nam:	Santa Fe Apartments
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

8
ESE **CA WELLS** **1682**
1/4 - 1/2 Mile
Higher

Seq:	1682	Prim sta c:	02N/02E-21C01 M
Frds no:	0707554001	County:	07
District:	37	User id:	07C
System no:	0707554	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	380036.0	Longitude:	1214540.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	0707554	System nam:	Riverview Motel
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

9
South **FED USGS** **USGS40000186488**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N002E21K001M	Type:	Well
Description:	Not Reported	HUC:	18040003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19520501	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	120
Well Hole Depth Units:	ft		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

10
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000186480**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N002E20J001M	Type:	Well
Description:	Not Reported	HUC:	18040007
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	18700101	Well Depth:	95
Well Depth Units:	ft	Well Hole Depth:	95
Well Hole Depth Units:	ft		

11
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000186484**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N002E21L001M	Type:	Well
Description:	Not Reported	HUC:	18040007
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19620101	Well Depth:	140
Well Depth Units:	ft	Well Hole Depth:	140
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	4	Level reading date:	1980-04-10
Feet below surface:	22.8	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1980-04-10	Feet below surface:	22.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-01-01	Feet below surface:	50.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-01-01	Feet below surface:	50.00
Feet to sea level:	Not Reported	Note:	Not Reported

12
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000186492**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N002E20F001M	Type:	Well
Description:	Not Reported	HUC:	18040003

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19480101	Well Depth:	93
Well Depth Units:	ft	Well Hole Depth:	93
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	27	Level reading date:	1982-09-23
Feet below surface:	52.00	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-04-29	Feet below surface:	51.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-17	Feet below surface:	52.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	52.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-24	Feet below surface:	53.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-10	Feet below surface:	51.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	54.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-17	Feet below surface:	54.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-25	Feet below surface:	53.84
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1978-04-17	Feet below surface:	52.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-13	Feet below surface:	56.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-26	Feet below surface:	54.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-15	Feet below surface:	56.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-12	Feet below surface:	54.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-16	Feet below surface:	54.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-07	Feet below surface:	53.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-24	Feet below surface:	53.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-11	Feet below surface:	51.69

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-04	Feet below surface:	53.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-23	Feet below surface:	51.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-21	Feet below surface:	51.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-20	Feet below surface:	51.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-24	Feet below surface:	52.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-19	Feet below surface:	53.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-15	Feet below surface:	53.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-19	Feet below surface:	54.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-08-22	Feet below surface:	54.35
Feet to sea level:	Not Reported	Note:	Not Reported

13
West
1/2 - 1 Mile
Higher

FED USGS **USGS40000186543**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N002E17N001M	Type:	Well
Description:	Not Reported	HUC:	18040007
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	1972	Well Depth:	500
Well Depth Units:	ft	Well Hole Depth:	500
Well Hole Depth Units:	ft		

14
ESE
1/2 - 1 Mile
Higher

CA WELLS **1683**

Seq:	1683	Prim sta c:	02N/02E-21H01 M
Frds no:	0707548001	County:	07
District:	37	User id:	07C
System no:	0707548	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	380025.0	Longitude:	1214505.0
Precision:	3	Status:	AR
Comment 1:	UNCONFIRMED 0.9 PPB TETRACHLOROETHENE.		

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Comment 2:	Not Reported	Comment 3:	Not Reported
Comment 4:	Not Reported	Comment 5:	Not Reported
Comment 6:	Not Reported	Comment 7:	Not Reported
System no:	0707548	System nam:	Lodge Water System
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94509	9	0

Federal EPA Radon Zone for CONTRA COSTA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94509

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX D

HISTORICAL SOURCES

416523

2600 Wilbur Avenue

Antioch, CA 94509

Inquiry Number: 5903838.5

December 12, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

12/12/19

Site Name:

416523
2600 Wilbur Avenue
Antioch, CA 94509
EDR Inquiry # 5903838.5

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Nikki Alfaro

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: August 22, 1998	USDA
1993	1"=500'	Acquisition Date: June 12, 1993	USGS/DOQQ
1984	1"=500'	Flight Date: June 08, 1984	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1972	1"=500'	Flight Date: July 06, 1972	USDA
1966	1"=500'	Flight Date: May 20, 1966	USDA
1963	1"=500'	Flight Date: July 15, 1963	EDR Proprietary Aerial Viewpoint
1959	1"=500'	Flight Date: April 11, 1959	USDA
1957	1"=500'	Flight Date: August 02, 1957	USDA
1949	1"=500'	Flight Date: October 13, 1949	USGS
1939	1"=500'	Flight Date: June 28, 1939	USDA
1937	1"=500'	Flight Date: August 20, 1937	USDA

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0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2016

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

AEI Consultants



N

AERIAL PHOTOGRAPH - 2012

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2009

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2006

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1998

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1993

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1984

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

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AERIAL PHOTOGRAPH - 1979

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Project Number: 416523

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AERIAL PHOTOGRAPH - 1972

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AERIAL PHOTOGRAPH - 1966

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Project Number: 416523

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AERIAL PHOTOGRAPH - 1963

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

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AERIAL PHOTOGRAPH - 1959

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

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AERIAL PHOTOGRAPH - 1957

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

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N

AERIAL PHOTOGRAPH - 1949

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1939

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

AEI Consultants



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1937

2600 Wilbur Avenue, Antioch, CA 94509

Project Number: 416523

AEI Consultants

416523

2600 Wilbur Avenue

Antioch, CA 94509

Inquiry Number: 5903838.3

December 12, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

12/12/19

Site Name:

416523
2600 Wilbur Avenue
Antioch, CA 94509
EDR Inquiry # 5903838.3

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Nikki Alfaro

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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:

Certification # 243E-4440-B8A6

PO # 215297

Project 416523

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 243E-4440-B8A6

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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416523
2600 Wilbur Avenue
Antioch, CA 94509

Inquiry Number: 5904775.2
December 16, 2019

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

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with any questions or comments.

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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.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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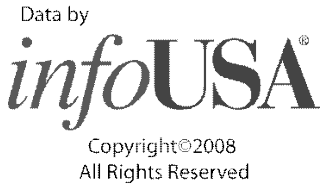

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1989	☑	☐	Haines Criss-Cross Directory
1985	☐	☐	Haines Criss-Cross Directory
1980	☐	☐	Haines Criss-Cross Directory
1975	☐	☐	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

2600 Wilbur Avenue
Antioch, CA 94509

Year	*CD Image*	*Source*	
WILBUR AVE			
2014	pg A2	EDR Digital Archive	
2010	pg A8	EDR Digital Archive	
2005	pg A14	EDR Digital Archive	
2000	pg A21	EDR Digital Archive	
1995	pg A26	EDR Digital Archive	
1992	pg A30	EDR Digital Archive	
1989	pg A32	Haines Criss-Cross Directory	
1985	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1980	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1975	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2014

2	SAMS LIQUOR & GROCERY
11	AFFORDABLE TIRE CENTER
105	GBOTOE, MADIA
	GREGORY, DUSTI
	HUYNH, MINH
	MALDONADO, JAMES
	PUENTE, MARIA
	ROBERTS, KIANDRA
	SHAW, SARA
	SHUGAR, TONIA R
	STPETERS, DIANN
	WONG, MILDRED
115	LEBAN, STACEY J
	OCCUPANT UNKNOWN,
123	GUADAGNO, FLORENCE
137	ALIRE-MARTINEZ, ANGEL
	ARENOTT, PAULA
	ARRUNATEGUI, ALFREDO
	AVILA, MARTIN
	BARNES, JENNIFER A
	BAY VIEW
	CAMPOS, MARIA C
	FLORES, GONZALEZ J
	GONZALEZ, NELY
	HAMILTON, MARK J
	HERNANDEZ, ADRIANA
	HERNANDEZ, MARIA
	LOPEZ, DANIEL
	MCDANIEL, GUADALUPE
	PEREZ, ANDRES
	ROBLES, JORGE
	ROCHA, LYNN
	ROSADO, DIANA
	SAUCEDO, CLAUDIA
	TORRES, ANDREA A
	VALLE, WILL
	VELASCO, YESENIA
201	ELEIDJIAN, DAVID
	EYES WAX 7 BEAUTY
	GOLDEN KENNETH RAY
	GOLDEN, BECKIE L
	RODRIGUEZ, MARIA O
203	ANDERSON, AARON R
	GIFFORD, DIRK B
	RUIZ, JUDY A
	SAMANIEGO, FRANCISCO G
	THAMES, VICKI
	WHITE, LISA
	ZEITZ, CANDACE
215	ALEXANDER, CJ

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2014 (Cont'd)

215	DIAZ, ROBERT
	EWEN, SUE
	HURTADO, RALPH F
	MCGREW, SAFIRA E
	MILLER, JILLIAN
	NEGRETE, KATHRYN A
	PURL, BARBARA A
	VELASQUEZ, VICTORIA
	VENTI, SAM I
	YADAO, LUANA
	ZUMWALT, JACLYN
221	ARROYO, RENEE
	BEALS, DAVID E
	CERDA-REYES, EVELYN
	COWEN, MICHAEL J
	JONES, JENNIFER
	MARTINELLI, LEO
	MASSETT, LAVERNE L
	MASSETT, LEIGH C
	MCFARLAND, MARK J
	OKSANEN, BLAIN
	SCOTT, CRYSTAL
	STREET, TERESA
	STRICKLAND, NANCY C
	WILLIAMS, WENDI
	WILLISON, GABBI
511	DEES SCOTT
	EAST BAY AUTO
	HS DESIGN GROUP INC
	PANIAGUA, DANIEL
521	SL EVANS INC
600	AGLORO, CARRIE A
	AJ, ELGIN
	ANDERSON, FELICIA
	ANG, SOTHA
	ARMSTRONG, MARLANA
	ATKINS, YOLANDA
	AVILA, LIDIA
	BAKER, TORRIN M
	BARRON, SHEILA
	BEACHAM, NATHANIEL
	BELL, MINNIE L
	BENTON, GARRON L
	BIBBS, BRITTNEY Q
	BOSTICK, BRIAN D
	BOUSLOG, NIKOLE K
	BROWN, DERRICK G
	BROWN, DESHANTINA
	BRYANT, WARREN W
	BURDICK, NICKI

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2014 (Cont'd)

600	CALDWELL, MAURICE A
	CALLAHAN, MARYJEAN J
	CAMPBELL, CHARLOTTE M
	CARBAJAL, VERONICA
	CARTER, BRENDA
	CHEEKS, APRIL M
	CISNEROS, ROSA
	CLARY, SHAY L
	CLIFTON, TERRESHA
	COLEMAN, MARGO
	COLLINS, TINA I
	COLN, MARCIOLIONIS D
	CORONADO, MARCO V
	COX, CEDRIC J
	CURTIS, DAVID C
	CURTIS, SEAN P
	DAVIES, JOSH
	DAVIS, HENRY L
	DENNIS, TROY L
	DIALS, MICHAEL D
	DRAPER, MICHELLE L
	EDDINGS, DENISE K
	EDGAR, STEVEN R
	ENRIQUEZ, JULIE
	ESCOBAR, LUIS
	ESPEJO, BERNADETTE I
	FACTOR, MARK J
	FLORES, GLORIA
	GALINDO, FERNANDO
	GIOVANNI, MARCIA
	GLASPER, SHELVON L
	GREGORY, RAMOND F
	GRIFFIN, SUSAN W
	HALL, MICHELLE
	HARRIS, JAMES
	HARTMANN, DENAE
	HAZELWOOD, CHABECKA C
	HEARTSILL, RENEE
	HERNANDEZ, CAYETANO A
	HOLLOWAY, JAMIE T
	HOLMES, ERENEE J
	HOPSON, LEILANI Y
	HOVE, MATTHEW
	ISERLOTH, SHAWN C
	IZZARD, LAMEAKKA
	JAYEE, MARCHALINE
	JEFFERSON, TOMMY
	JENKINS, CLEO
	JONES, TIMOTHY
	JOSEPH, KNAKYTA

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2014 (Cont'd)

600 KAUR, BALBIR
KEATON, BRYAN
KELPSAS, KEITH
KRAUS, BONNIE J
LAKESHORE APARTMENTS OF FT OGL
LAND, KRYSTAL
LANTER, JIM R
LEE, LANEASHA M
LOMBARD, SANTIAGO V
LOPEZ, EVA L
LORD, EDWIN
MABENGI, SANILLY
MANRIQUEZ, SUSANA
MARCHALINE, JAYEE
MARIANO, LORETO
MARQUARDT, DAVID J
MARTIN, GREGORY
MAYBERRY, MAURICE V
MCNEAL, ALFRED
MELTON, JAMIE A
MIDDLETON-BERRY, PARIS
MISTER, LATREL
MONTGOMERY, DALENARIO
MONTGOMERY, KRISTEN D
MURPHY, CANDISHA
OBLANCA, NOEL A
OUELLETTE, MICHELLE K
PADILLA, APRIL
PAIVA, DAVID M
PARALLA, AISHA A
PFEUFFER, SASKIA
PICKETT, JEANETTE
PLASTER, STACI
PROCH, DESTINY
ROBINSON, KAREN A
RODRIGUEZ, JENNIFER
ROMERO, DESTINY
RONINSON, AMBER
RUDOLPH, MARTI
RUSSELL, NOELLE M
SANTISTEBAN, BLANCA E
SERRANO, BLANCA
SHEARER, CASSANDRA L
SHERRILL, KATHLEEN D
SHIVERS, LIONEL J
SLAUGHTER, KEIANA
SMITH, CHERI A
SMITH, ERIKA
SOUTHERN, BELLE
STALKER, BARBARA C

WILBUR AVE 2014 (Cont'd)

600	STEVENSON, DASHIA
	THIND, VALKAR S
	TINSLEY, TIFFANEE
	TUREK, MOLLY L
	TURNER, DONALD L
	VERDUZCO, GABRIEL
	VILLALTA, ELA A
	WALKER, EARNEST L
	WASHINGTON, VARANICE R
	WHITE, EDWARD
	WHITELOCK, ROBERT C
	WILLIAMS, DAVID R
	WINSLETT, ANGELA M
	WORTHY, BONNIE K
	WRIGHT, JUSTIN
	YASSIN, ABDULLAH
	ZAPATA, KARLA I
607	VERCO DECKING INC
701	GODFREY, CYNTHIA L
749	JUAREZ, ARMANDO T
	LOERA, JUAN
	LOMELI, BENJAMIN
	MAGALLANES, JUAN A
	QUIJAS, ELENA
	TEJEDA, ELENA
801	EASTERN CNTRA COSTA TRNST AUTH
	FIRST STUDENT INC
	LAIDLAW TRANSIT INC
2200	SILGAN CONTAINERS MFG CORP
2400	HOME SITE SERVICE MAINTENACE
	HOMESITE SERVICES INC
	PAGNINIS INC
2540	ANTIOCH PAVING CO INC
3000	GRAVITY HOLDINGS INC
	RGW CONSTRUCTION
	TOW WORKX
3038	BRITTO, TAISHONA
3050	HUNT AND SONS
3201	GENON CONTRA COSTA LLC
	MIRANT CORP
	NRG ENERGY INC
3301	SPORTSMEN INC YACHT CLUB
3305	EBONY BOAT CLUB
3307	ETTEL, DELLA T
	SHYNEALLIED
3500	PERKS SPORTS ACADEMY INC
3551	KIE-CON INC
	KIEWIT PACIFIC CO
3600	CEMEX CNSTR MTLS PCF LLC
3625	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2014 (Cont'd)

3627 B & D TRAILER SALES
WHYTE, JENNIFER
WILBUR AVENUE STORAGE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2010

2	SAMS LIQUOR & GROCERY
5	RESTORE IT
11	ANTIOCH AUTO MASTERS INC
60	BURRELL, JOSHUA
105	BAKER, PATRICIA M
	CARROLL, TIMOTHY J
	HALBASCH, DENNIS A
	JACQUEZ, YVONNE
	LOZA, MONICA
	MATEAS, SAMANTHA
	NEELY, J
	NORSEEN, JUDY M
	ROBINSON, DANITA L
	SHUGAR, SEAN M
	THOMPSON, SUSAN A
	WHITE, MICHELLE
	WILSON, ANDREA R
115	MARTINEZ, MICHELLE
	OCCUPANT UNKNOWN,
123	GUADAGNO, FLORENCE
137	ACEVEDO, CARLOS
	ARENIVAR, PAULA
	ARIZPURUA, JULIA I
	ARRUNATEGUI, ALFREDO
	AVILA, MARTIN
	AVITIA, ARMANDO
	BAY VIEW
	CAMARENA, LUIS
	CAMPOS, MARIA C
	CARRANZA, ALEXANDER
	CHAVEZ, JULIO
	CONTRERAS, PAULA
	CRESPIN, JOSE R
	DANIEL M VALENCIA
	FLORES, R
	GONZALEZ, MINEY B
	GORDILLO, CAYO
	GUITIERREZ, FRANCISCO
	GUZMAN, JOSE
	HERNANDEZ, ESMERALDA
	HERRERA, HUGO
	JENNINGS, STEVEN
	JEWELL, DAVID H
	LINARES, MARIA E
	MARTINEZ, MARTIN
	MENDEZ, JOSE M
	MILLER, ELIZABETH
	NELSON, JOHN H
	PEREZ, CARLOS
	RAMIREZ, VICENTE

WILBUR AVE 2010 (Cont'd)

137	TILLEY, GARY
	TORREALBA, MARCELA
	VARGAS, MARIO
	VELASCO, SANDRA
201	MOORE, AARON M
	PRINCHETTA, JESSE M
203	BAKER, DEBRA
	BURKS, MELISSA
	GREEN, LON
	JACINTO, CESAER
	PERDUE, MELISSA D
	RINCON, RICK
	SAMANIEGO, ABEL
	SNEARY, HARLAN W
	THOMAS, JOSHUA
	WARD, CHRISTIAN
	YOUNG, ROSLYN
215	GIBBS, ANGELA
	GRACE, TERRY J
	GRIJALVA, KATRINA
	JOHNSON, JASMINE
	KOCHEVAR, LANI T
	LEBER, JUSTINA
	MILLER, JILLIAN
	PURL, BARBARA A
	SALINAS, SUZAN R
	SANCHEZ, CHRISTOPHER D
	STEPHENSON, MATTHEW
	WOODPECK, LAUREN
221	BABCOCK, RICHARD G
	BOUSLOG, RONNIE E
	CERDA-REYES, EVELYN
	ENGEN, ALLEN C
	FINLEY, NAJLA
	GARCIA, JOSE A
	MARTINELLI, GILBERT R
	MASSETT, LEIGH C
	MCINEYRE, KEN
	MILLER, KELLY O
	PERRY, BRIAN T
	RENWICK, KATHY
	ROBINSON, J
	SCOTT, CRYSTAL
	SPEER, MICHELLE
	STREET, TERESA
	WEED, DARLENE
	WILLIAMS, WENDI
511	HS DESIGN GROUP INC
	PANIAGUA, DANIEL
	SCOTT DEES

WILBUR AVE 2010 (Cont'd)

511 X3 MOTORCYCLE PARTS & ACC
521 SL EVANS INC
600 AFFORDABLE WATER HEATERS & PLU
AIKEN, STEPHANIE A
AJ, ELGIN
ALVAREZ, LUIS A
ANDERSON, KATHERINE A
ANG, HEARK V
BALLIET, KIMBERLY
BARELS, HOLLI
BELL, MINNIE L
BERNHARDT, TED R
BEYAN, RITA
BLUNT, EMMA
BORDELON, INISHEA
BOURGEOIS, SANDRA L
BOUSLOG, NIKOLE K
BROWN, HEATHER
BRYANT, ALBERTINE B
BRYCE, REBECCA
BURKS, ALLISON
CALDERA, YVETTE M
CALLAHAN, MARYJEAN J
CARBAJAL, VERONICA
CARRIGAN, TEKELA A
CASAS, MANUEL A
CASTILLO, DANIEL
CHAHAL, KULDIP S
CHAMBLEE, WILLIAM P
COOPER, LORRI L
COSME, MIRIAM V
CREEL, SANDRA
CRYER, JACOB
DAVIES, CHRIS
DAVIS, SHAWNTAY
DESOUSA, ANGELA
EBEIGBE, IDUS
EDGAR, STEVEN R
ESCOBAR, LUIS
FACTOR, MARK J
FILAMOR, DILGA L
FLOYD, TRAVIS R
FOWLER, CASEY R
GARCIA, SABINO
GARCIA, WENDY J
GBILIA, DAIDOUR C
GODWIN, JOHN L
GOMEZ, YVONNE
GUERRERO, MARTIN
GUTIERREZ, SERGIO

WILBUR AVE 2010 (Cont'd)

600 GUZMAN, JOSE
HANSEN, JENN
HANSEN, KRISTINA M
HAZLETT, LEQUIDA J
HEARTSILL, RENEE
HELLESTO, SCOTT K
HERNANDEZ, ENRIQUE
HERNANDEZ, FAUSTO
HOLLENBECK, AUBREY
HOLLOWAY, JAMIE T
HUMMELL, DEBORAH
HURLEY, DALE W
IBE, JACKIE R
JACKSON, RICK
JENKINS, CLEO
JIMENEZ, RACHEL
JOHNSON, BRENDA J
JOHNSON, STEVEN W
JOLIEVETTE, TANIA C
JOLLEY, SASHA
JOSE, CAROLINE
KANG, SUKHWINDER K
KING, JANET
KOMARI, CHRIS
KRAUS, BONNIE J
LAKESHORE APARTMENTS OF FT OGL
LEE, DONDANESHA R
LEWF, VALERIE A
LIVING ROCK COMPANY
LOPEZ, JOSHUA M
LOWARY, JOHN J
LUCKETT, DUDLEY
LUTMAN, SHANE
MABENGI, FAMILLY
MACHAIN, BLANCA
MADRIGAL, KARINA
MALONE, LINDSAY
MANRIQUEZ, ROGELIO
MARAVILLA, FRANK
MARMAN, MEGHAN
MARTIN, TIFFANY S
MARTINEZ, MICHAEL
MAXEY, SHIRLINA
MAYBERRY, MAURICE V
MCDONALD, VANESSA
MCFADDEN, PRIYA
MCGUIRE, ROBERT A
MCMAHON, AARON
MCNEAL, ALFRED
MIDDLETON, PATRICA

WILBUR AVE 2010 (Cont'd)

600	MOORE, GARY D
	MURPHY, CANDISHA
	OUELLETTE, MICHELLE K
	PADILLA, DUANE L
	PARALLA, AISHA A
	PFEUFFER, SASKIA
	PHILIPIE, AMY
	PICKETT, JEANETTE
	POLIAK, MIRELA
	POWELL, ALICIA R
	POWELL, TYRONE W
	PROCH, DESTINY
	RADEMACHER, JOE A
	RAMOS, LUIS A
	RIVERO, JANETH C
	ROSOFSKY, PATRICIA
	SANCHEZ, SOPHIA
	SHEARER, CASSANDRA I
	SHIVERS, IVAN L
	SHUMAKE, LASHUN
	SING, SARHARVINDER
	SISTERS OF WICK
	SMITH, ITOCHA
	SMITH, STEPHEN R
	SPONHOLZ, GRANT
	STALKER, BARBARA C
	STEWART, JOY M
	SYLVE, AUDREY M
	THIND, VALKAR
	THOMPSON, LETTIE F
	TIMOHY, ALVENA
	TINAJERO, LYDIA
	TORRES, MAYRA
	TUREK, MOLLY L
	VELAZQUEZ, JUAN M
	WALKER, EARNEST L
	WALKER, MONUETTE L
	WALKERS HAULIN
	WALLIS, SUSAN R
	WHITE, NORMAN
	WILBUR, CRYSTAL
	WILLIAMS HAULING
	WILSON, GREGORY
	WINDSOR, STEPHEN
	WISEMAN, DAMAN
	WRIGHT, SAFI
	YASSIN, ABDULLAH
	YOUSIFI, MOHAMMAD Y
607	VERCO DECKING INC
701	BOSMAN WOODCRAFT

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2010 (Cont'd)

701	BUCHANAN, JEFFREY
735	GOLDEN, KENNETH
749	BARAJAS, MARIANA
	CURIEL, FORTINO
	FLORENCE, M G
	GUADAGNO, RALPH
	HERRERA, JOSE
	LOERA, JUAN
	LOMELI, BENJAMIN
	LOPEZ, ARTURO L
	MAGALLANES, JUAN A
	MORALES, JULIA
	QUIJAS, ELENA
	RIVERA, FERNANDO
	SILAHUA, JAIME
	TEJEDA, ELENA
801	EASTERN CNTRA COSTA TRNST AUTH
	FIRST STUDENT INC
	LAIDLAW TRANSIT INC
1000	IGLESIAS BROS CONCRETE
2200	SILGAN CONTAINERS LLC
2300	CAMERON INTERNATIONAL CORP
	CONCORD SHEET METAL PDTS INC
	D & H MACHINE INC
	JOHN DEERE LANDSCAPES INC
2400	BAY AREA EROSION CONTROL
	HOME SITE SERVICE MAINTENACE
	PAGNINIS INC
2540	ANTIOCH PAVING CO INC
2566	ALLISON, RICHARD H
3000	GRAVITY HOLDINGS INC
	LEVEL 9 PRODUCTS INC
	MARTINEZ, LINA S
	ME AND MINE ENTERTAINMENT
3050	BAY COUNTIES PITCOCK PETROLEUM
	TOW TRUCK ONE
3201	MIRANT CORP
3301	SPORTSMEN INC YACHT CLUB
3305	EBONY BOAT CLUB
3551	KIE-CON INC
	KIEWIT PACIFIC CO
3600	CEMEX USA INC
3625	BOUSLOG, JASON
3627	B & D TRAILER SALES
	WHYTE, JENNIFER
	WILBUR AVENUE STORAGE
3665	MONTEREY MECHANICAL CO

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2005

2	BDLN INC
	SAMS LIQUOR & GROCERY
5	ALCORN RETREADING AND REPAIR
11	ANTIOCH AUTO MASTERS INC
	LEWIS TOWING CO
21	MATTOS, ROBERT L
60	WILLIAMS, SHARON
105	BOND, LORI L
	BRADLEY, KIA
	HALBASCH, DENNIS A
	HORKHEIMER, SOPHIE W
	JACQUEZ, YVONNE
	LONG, BRANDON
	MAI, VIEM X
	MITTS, RAMONA H
	NORSEEN, JUDY M
	SHUGAR, SEAN M
	SPEER, RONALD D
	TAYLOR, KRISTIN
	THOMPSON, SUSAN A
115	OCCUPANT UNKNOWN,
123	GUADAGNO, FLORENCE
137	ARENOTT, PAULA
	ARRUNATEGUI, ALFREDO
	AVITIA, ARMANDO
	BANDA, ABRAHAM
	BAY VIEW
	BROWN, KYLE J
	CABALLERORUIZ, JUAN C
	CAMPOS, MARIA C
	CARDINALE, JENNIFER
	CARPENTER, LARRY D
	CASTILLO, SONYA A
	CISNEROSCRUZ, TEODORA
	GRANADOS, OLGA
	GUZMAN, JOSE
	HARDESTY, DAN L
	HART, AMANDA
	HERNANDEZ, NORELIA
	JACKSON, A
	JEWELL, EDUVI A
	JONES, RON C
	JUANA, MARTINEZ
	LEON, ELVIRA
	LOPEZ, ISRAEL
	MORALES, MIGUEL
	OLIVER, CHRIS
	ORR, IVY A
	PASTRANA, BRUNILDA
	PEREZ, PRISCILLA

WILBUR AVE 2005 (Cont'd)

137	PEREZ, ZORAIDA
	PINEDA, JOSE A
	QUESADA, APRIL D
	RAINS, JASHAN E
	REAMUCIO, ROCHIUS R
	REYES, L J
	RODRIGUEZ, MARICELA
	TALAG, FELIPE
	TORRE, JOSE L
	VARGAS, MARIO
	VELASCO, SANDRA
	YOUNG, DENISE S
201	AUSTIN, RHIANNE
	BALOCCO, EDDY P
	RIZZUTO, MIKE W
203	CAMARENA, JUAN
	CUPIT, S
	GREEN, LON
	TONDRERAS, CARLOS
215	GARNER, AMELIA
	JONES, LEANDRE
	MASSON, DULANY
	ROSS, MONICA
	SALINAS, SUZAN
	SANCHEZ, CHRISTOPHER
	SOEMYINT, JAMES
221	CERDA-REYES, EVELYN
	COLLINS, CARL S
	COOPER, DEBBRA
	CURRAN, COLLEEN
	ENGEN, ALLEN C
	HERNANDEZ, MEGAN
	KRISTI, W
	MARTINELLI, GILBERT
	PAIVA, DON
	RAANES, ALLEN
	ROMITI, ANTHONY
	ROSS, KIMBERLEY A
	SCHULTZ, THOMAS J
	SOFGE, ELIZABETH
	ULMER, DONNA
	VICKY, D
	WATERS, R
	WILCOX, J
511	DAVIDS CUSTOM INTERIOR
	HS DESIGN GROUP INC
	STEVES AUTO PAINT
521	DELNETICS INC
	MACALISTER FRANK
552	OCCUPANT UNKNOWN,

WILBUR AVE 2005 (Cont'd)

600 AGUAYO, ROSEMARIE
AIRDELEAN, ILDIKO
ALMEYDA, VICTOR H
ALVAREZ, LUIS A
AMEZCUA, APOLONIO
ANDREWS, D
AVIS, CRAIG S
BAKER, TORRIN M
BATES, PATRICE
BATES, PATRICK
BEASSIE, CHADWICK D
BERNARDINO, GINA
BETANCOURT, CLAUDIO
BETTY, DARLENE
BIZICKI, MIKE P
BLACK, BRIAN D
BOUSLOG, NIKOLE K
BRADY, MARY E
BREWER, ROCHANDA
BROWN, DERRICK G
BROWN, ZHOQUANDAS K
BURRELL, K
BUSTOS, G
CANO, ANDREA
CAREW, PAUL D
CARRIGAN, LARRY C
CATCHINGS, MICHAEL
CAVARRUBIAS, BELINA
CHAFFINS, HELEN
CHAPMAN, PAUL V
CHENAULT, N
COOMBS, GARY M
CORRALES, DOLLY P
CURL, FAYE I
DANIELS, BELISHA
DAVEE, ANGIE
DAVIES, J
DAVIS, RICHARD J
DAY, J C
DEHART, BENJAMIN
DENNETT, DANA
DERITA, LISA L
DEVLIN, MARK C
DOSANJH, KULWANT
DUNZWEILER, DAWN D
EDGAR, STEVEN R
FACTOR, MARK J
FARIAS, IVAN
FONSECA, DAYTON
GARCIA, RICH

WILBUR AVE 2005 (Cont'd)

600 GASCA, RAUL C
GBILIA, DAIDOUR C
GODWIN, JOHN T
GOMEZ, YVONNE
GOODSON, JOSHUA W
GOSS, T
GREG, K
GUMATAO, WILLIAM
HAGEN, ANGELA
HALL, MICHELLE
HATHAWAY, RAQUEL N
HERNANDEZ, MARTHA
HICKS, CICELY E
HILL, GABRIEL
HUMMELL, DEBORAH
IBE, JACKIE R
JAMES, SANDRA D
JAY, KASEY
JEGLUM, WAYNE A
JENKINS, PATRICK W
JILLSON, ANNE
JOHNSON, CHRISTINA D
JORDAN, DAYANA
JOSIAS, N
KANG, SUKHWINDER K
KING, JANET
KRAUS, BONNIE J
LA, MADRID A
LAKESHORE APARTMENTS
LEE, DONDANESHA R
LEVY, ANAT
LEW, VALER A
LOCKETT, D
LOPEZ, JOSHUA M
LOWRY, AYANNA S
LUCKETT, DUDLEY
LYBARGER, LEO
MACIAS, RAFAEL
MAJOR, DERRICK M
MARIANO, KATHLEAH V
MARTIN, GLYNN
MARTINEZ, ADRIANA
MCCASLIN, JAMES
MCCRANEY, JENNIFER M
MCDOWELL, CAROLYN
MCNEAL, ALFRED
MENDOZA, TOMMY J
MERCER, JAMES O
MILLS, G
MINSHALL, ELLEN M

WILBUR AVE 2005 (Cont'd)

600 MOLINE, HUI S
MONTGOMERY, MARTELL
MORALES, JESSICA
MURILLO, STEFANIE
NEAL, RICHARD
NGUYEN, TRUNG T
NIJJAR, RAMESHWAR
NOLD, JANELLE M
NORMAN, NOLAN J
NUNEZ, ANTONIO
ORGERS, CHARLES D
OUELLETTE, A
PACE, RONALD
PADILLA, DUANE L
PARLA, FRANK J
PATE, WILLIAM S
PATEL, CHANDAN N
PAXTON, BLANCHE
PEREZ, TAPIA A
PRESTON, VIVIAN M
RAMIREZ, BILL P
RAUL, GASCA
REED, C P
ROBINSON, EUGENE F
ROSS, WILLIAM A
RUCKER, CASSANDRA
SALESA, ETEUATI
SANCHEZ, SOPHIA
SANFILIPPO, STEVEN
SHACKLEFORD, PATRICE N
SHIRLEY, JEROME
SILVA, BERTHA H
SINDAR, MICHAEL
SMITH, LESLIE
SMITHEY, PAMELAA
STALKER, BARBARA C
STEINHAUER, GREGORY
SUAREZ, YESENIA
SULLIVAN, RICHARD M
TAPIA, ARACELI
TATING, SAFI L
TAYLOR, STEPHEN
THOMAS, JARAD
THREADGILL, TAMARA K
THURMAN, T
TOOKER, ERIC L
TROTTER, ANGELICA
TUBBS, MICHAEL
TUREK, MOLLY L
URDIALES, VICKIE

WILBUR AVE 2005 (Cont'd)

600	VANCANFORT, PHILLIP
	VEERAPPAN, T
	VEGA, CARABEZ R
	VELASQUEZ, ANTHONY C
	VELASQUEZ, FERNANDO
	VENZKE, RACHELLE G
	VIEGAS, CHRISTINA
	VILLASENOR, YURITZKIRI
	VINZONY, FREDE
	WALKER, EARENST
	WALKER, KIM D
	WALSTON, BRANDON
	WEEKLY, BRYANNA
	WESTENBERGER, JAMES D
	WHITWORTH, DEBORAH M
	WILEY, DAVID
	WILLIAMS, KIMBERLY
	WONDERERLING, DAVID A
	WOODWARD, JOSHUA
	WOOLWINE, STEPHEN T
	WUNDERLICH, DENISE M
	YASSIN, ABDULLAH
	YATH, TOMMY
	ZAN, JANET
606	MCINTOSH, PAULINE
607	VERCO MANUFACTURING INC
701	BOSMAN WOODCRAFT
	OCCUPANT UNKNOWN,
	REED, TROY
735	GOLDEN, KENNETH
749	CHAVEZ, MARIA
	CONTRERAS, EDWARD
	CURIEL, FORTINO
	FLORENCE, M G
	JUAREZ, ELISEO
	LOMELI, BENJAMIN
	LOPEZ, ARTURO
	OROZCO, MERCEDES
801	EASTERN CNTRA COSTA TRNST AUTH
	LAIDLAW TRANSIT INC
1000	HANK SCHWARTZ FLASHING SYSTEMS
	IGLESIAS BROS CONCRETE
1001	DOWDYS CABINETS
2075	WAKE, LONNIE
2099	PARRA, ANDREA
2110	PJM INC
2151	KEMWATER INC
2180	DISPATCH SERVICES INC
2190	CLEMENT, MICHAEL B
	PRAXESYSTEMS INC

WILBUR AVE 2005 (Cont'd)

2200 SILGAN CONTAINERS CORPORATION
2240 ROBERTS & BRUNE CO
2260 F RODGERS INSULATION CENTRAL D
2276 VICTORY PACKAGING INC
2300 CONCORD SHEET METAL PRODUCTS I
COOPER CAMERON CORPORATION
D & H MACHINE INC
ELLIS, GREGORY W
H & R ROOFING SUPPLY
JACKSON MINING COMPANY INC
2301 KNIGHT TRANSPORTATION
TEMPLE INLAND
2400 A1 IRON WORKS
BRAGG INVESTMENT COMPANY INC
2540 ANTIOCH PAVING CO INC
2566 ALLISON, RICHARD H
3000 CAY AREA CUSTOM TRIM
MARTINEZ, JOHN A
3050 BAY COUNTIES PITCOCK PETROLEUM
3301 FROLICH-OLSON, MICHELLE
SPORTSMEN INC YACHT CLUB
3305 LEE, EVONNA
3307 ARGISO, FRANK
BROWN, JENNIFER
CHAN, WOON B
JERNIGAN, KARI L
MCDANIEL, LINDA
SAN JOAQUIN YACHT HARBOR
STEELE, JERRY
3309 KECK, JAMES
3500 YU, JEANETTE O
3551 KIEWIT PACIFIC CO
3625 AM PRODUCTIONS
MORGAN, DONALD G
3627 OCCUPANT UNKNOWN,
3635 WILBUR AVENUE STORAGE
3665 MONTEREY MECHANICAL CO

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2000

2	SAMS LIQUOR & GROCERY
5	ALCORN RETREADING AND REPAIR
11	ANTIOCH AUTO MASTERS INC
105	LOZADA, DAVID
115	TROIA, F
123	GUADAGNO, F
137	ANTHONY, JEFFERY
	BAY VIEW
	BOONE, KENT
	BROCKWAY, ROSS A
	BROOKS, C
	GAGE, MARK
	GARZA, RAUL
	HERNANDEZ, CLARA
	JEWELL, EDUVI
	METCALF, V
	MILLS, S C
	MORA, OCTAVIO M
	PALACIOS, EUGENIA
	PEREZ, JUAN M
	VARGAS, MARIO
	VRENON, DEBORAH
201	GARGALIKIS, JOHN
	SIAS, BRAD
203	ANDERSON, RICHARD
	BALOCCO, JEFF
215	JARDINE, KRISTY M
221	AVILA, JOSEPH
	CEFARATTI, MICHAEL E
	DECKER, REBECCA A
	GARNER, JIM
	GREEN, ALEISHA
	HUAJARDO, TRESSA M
	NARO, TORI
	PANDREA, GREG J
	RUGRADEN, J E
	STANTON, J
	ULMER, EDWARD
511	ANTIOCH ENVIRONMENTAL INC
	COOKSON, RONALD G
521	DELNETICS INC
600	ALVAREZ, LUIS A
	ALVORD, DAVID M
	AMBRIZ, M
	ANDERSON, CRYSTAL
	ARIAS, ISRAEL
	AYALA, ERIC L
	BARROW, NIKKI
	BERG, CARRIE
	BORGE, ALVARO J

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 2000 (Cont'd)

600 BURCHFIELD, BRANDY
BURTON, MICHAEL P
CALDWELL, IRA W
CAREW, PAUL D
CERVANTES, LUIS
CEVANTES, LUIS A
CHERRY, TRACY
CHURCHILL, LOWELL T
COLMENARES, EDDY A
CORRALES, DOLLY P
COTE, AJA
DAEENEJAD, MASOUD S
DAVIES, J
DAY, J C
DELAROSA, NINO F
DIAZ, STACIE
EARLEY, C
EDWARDS, NATASHA
EVERSOLE, C R
FISHER, DANIEL A
FLORES, CESAR
FRIEDMAN, STACEY L
FUNEZ, LISA N
GARRETT, DANIEL L
GRAHAM, J
GRAY, ORLANDO G
GREEN, CLAUDIA R
GRIGSBY, KEITH T
GUYDON, ELVIA M
HALL, V J
HAND, ALAN J
HANSEN, MARCIA
HELLWIG, SERENA
HERNANDEZ, MARTHA
HINSHAW, LORI A
HOLLERAN, DON
HOWES, KENNETH W
HUFFMAN, THOMAS B
HUGHES, VICTOR
JAMES, SANDRA
JOHNSON, KENYA
JOHNSON, ROBERT E
JOHNSTON, TIGE A
KEY, CLAIR W
LAROSA, NINO F
LEE, TED L
LEWIS, ABBIE M
LITTELL, R
LOYD, CRAIG
MALASHOCK, ANN

WILBUR AVE 2000 (Cont'd)

600 MARGARITA, DIXON
MCCASLIN, SANDY
MCINTOSH, PAULINE
MEDINA, ALBERT J
MELTON, CATHY
MENDOZA, WILLIAM
MERCER, DIONNE D
MESSER, LISA
MIDDLETON, SARA
MILLER, MIKE A
MOLINE, HUI
MONROY, RENATO
MOORE, DOUGLAS E
MORGAN, GERALD D
MORRIS, LAKISHA D
NEUHOFF, RYAN
NICHOLAS, STEPHEN F
NOLD, JANELLE M
ONDEK, EDWARD W
PADILLA, DUANE L
PADUA, DANIEL
PAIVA, RACHEL M
PEERSON, TRACY A
PENNEY, STACEY M
PEREIRA, D
PICCONE, GRANT
PITTMAN, JIM
PRESTON, VIVIAN M
PUENTES, J
PURZYCKI, C M
ROBLES, JORGE
ROJAS, F
ROSE, JINA R
ROVERE, MICHAEL D
SANCHEZ, TONY
SANMARTIN, EDNA
SAUNDERS, D
SCHMIDT, K D
SCHWARTZ, REBECCA
SIMMONS, JOE T
SLATTEN, CAMERON
SOMERS, KELLY L
SPIKES, KHARY
STEWART, JOY
TAMARIZ, TONYA
THOENNES, K
THOMPSON, M P
TILLEY, STEVEN
TREHAN, YOGESH
TRUONG, LAURA

WILBUR AVE 2000 (Cont'd)

600	TUREK, MOLLY
	WADDLE, C
	WALLACE, LAURA
	WHITLOCK, JOEY M
	WILKINS, S
	WILSON, MICHELE L
	WOLLAM, MELODEE A
	WONDERERLING, DAVID A
	WOODSON, YVANNA N
	WUNDERLICH, DENISE M
	YBANEZ, RAUL
601	MARIN, MARGIE J
607	VERCO MANUFACTURING INC
608	LAMBERT, RITA
680	BERG, CARRIE
	CHURCHILL, TOM
701	OSBURG, AARON
749	CAPAS, B
	CURIEL, FORTINO
	FLORENCE, M G
	GRANO, MARCO
	MARTINEZ, JOSE M
801	EASTERN CNTRA CSTA TRNST AUTH
	LAIDLAW TRANSIT INC
1000	HANK SCHWARTZ FLASHING SYSTEMS
	IGLESIAS BROS CONCRETE INC
1001	DOWDYS CABINETS
2110	BRAMBLES USA INC (DEL)
2180	DISPATCH SERVICES INC
2190	CLEMENT, MICHAEL H
2240	ILLINOIS TOOL WORKS INC
2276	VICTORY PACKAGING INC
2300	AMERICAN ROOFING INDUSTRIES
	D & H MACHINE INC
	HOLMES QUALITY CLEANING
	JACKSON MINING COMPANY INC
2301	GAYLORD CONTAINER CORPORATION
	TCB INDUSTRIAL
2400	A1 IRON WORKS
	BRAGG INVESTMENT COMPANY INC
	OCCUPANT UNKNOWN,
2540	ANTIOCH PAVING CO INC
2566	OCCUPANT UNKNOWN,
3000	MARTINEZ JOHN
3200	RICHARD ED DISCING
3301	SPORTSMEN INC YACHT CLUB
3307	SAN JOAQUIN YACHT HARBOR
3309	GERMAINE, MERLIN
3551	KIEWIT PACIFIC CO
3600	BURSTEIN, DAVID H

WILBUR AVE 2000 (Cont'd)

3625 OCCUPANT UNKNOWN,
3627 YORGEY, KENNETH R
3660 OLSON NORMAN WELDING
3665 MONTEREY MECHANICAL CO

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 1995

1	QUALITY AUTO REPAIR
5	ALCORN RETREADING AND REPAIR
11	ANTIOCH AUTO MASTERS INC
105	MITTS, CHARLES
	NORSEEN, MICHAEL W
115	OCCUPANT UNKNOWNN
123	GUADAGNO, F
137	DISCOVERY SQUARE APARTMENTS
	GLOMETTI, ANDRE
	GONZALEZ, MARCOS A
	GONZALEZ, NORBERT A
	GRAVES, DEBBIE M
	LANDRETH, DAVID B
	LANE, LISA
	LONG, ANGELA D
	MADRIGAL, JUAN M
	MARTINEZ, DAVID
	MORGAN, HELGA
	NELSON, SHERI
	PENDERGRASS, DAN
	SAVAGE, DANIEL
	TILLEY, SANDY
	WAJE, J
	ZATEZALO, JOHN M
201	GARGALIKIS, JOHN
203	BALOCCO, JEFF
	CHISM, JOHN JR
	HOLT, STEVEN
	RIOS, ANTHONY
215	GREGORY, JILL R
	SULLIVAN, MICHAEL
	WEIDRICH, MARGE
221	BRANDS, JAMES
	CADIGAN, PAT
	GILLETTE, TINA
	HALL, DELBERT
	KNOUFF, TIFFANY
	PARKS, DANIEL
	SULLIVAN, L R
511	BUSLINE MEDIA
	C&K ENGINEERING
	GEHRCO MACHINE
521	RITTER MANUFACTURING CO INC
540	WILBUR AVENUE STORAGE
543	OLSEN NORMAN P WLDG & BURNING
553	VANALLEN, DANNY
600	ABUSAFIEH, LORRIE
	ADAMS, DIANE
	ALL AMERICAN AUTO REPAIR
	AZEVEDO, DENNIS JR

WILBUR AVE 1995 (Cont'd)

600 BANGA, ALLAN
BELTRAM, OLIVIA M
BROHMAN, RONALD
BROWN, VICKIE
BRUCE, JULIE A
BRUNKER, WAYNE
CARRINGTON, MARLONA
CLARK, DEBBY
CONIN, DEBORAH
DARTNELL, TERRI
DAVIS, JOSEPH
DEKAY, ALAN
DENISOFF, HOPE
DEVLIN, KEITH
DICKERSON, TIM J
DIXON, HEATHER
DUNHAM, DAVID S
ELLIOTT, WAYNE
FERNANDEZ, JOHN
FIGUEROA, GARY
FOWLER, BOB L
FRYAR, TERESE
GARNISH, LANCE G
GILGINAS, JOHN P
GORDON, CELIA
HART, M
JOHANSEN, JAMES
KING, ELLEN M
KITE, SCOTT
KNABE, LYNN D
KRAMER, TAWNIE
LAY, KENNY
LOCHNER, MARTIN
LYONS, DENISE
MARKS, STEVEN
MASADAS, PERFECT C
MATHEWS, SEAN
MELNIKOFF, SANDRA
MILLER, MARK A
MOORE, DAN
NAVARRETE, RICARDO J
NELSON, WILLIAM
OSBORNE, CAROLYN
PACK, DONNA
PADUA, DANIEL
PERRY, JASON
PITSCHNER, LYNN
POFAHL, WILLIAM
RAMIREZ, V
RICE, RUSSELL

WILBUR AVE 1995 (Cont'd)

600	ROBERTSON, DAWN
	RODRIGUEZ, VALERIE
	ROJAS, F
	ROMERO, JOSE R
	ROWLEY, SHANNON
	SANFORD, JANELLE
	SHORTER, QUINTIN
	SINGH, HARDEEP
	SOTO, JOHN
	SPRENGELMEYER, EDWIN J
	STUBER, LYNNE
	TREAT, APRIL
	TRIMBLE, THOMAS
	TUREK, MOLLY
	VENGLEY, STANLEY E
	WATSCH, J
	WATSON, J
	WILCOX, ROBERT J
	WILSON, LAVENIA
607	VERCO MANUFACTURING INC
620	CALIFORNIA CABINETS & FIXTURES
690	HALL, JIM
701	ESPINOZA, JESUS E
749	MORALES, MARIA
	RAMIREZ, ANTONIO
	VIVEROS, HECTOR
801	EASTERN CNTRA CSTA TRNST AUTH
	LAIDLAU INC
1001	DOWDYS CABINETS
1150	KIEWIT PAC (JOINT VENTURE)
1456	MAC, TIM
	PACIFIC GAS AND ELECTRIC CO
1779	DITCO A CALIFORNIA CORPORATION
2075	WAKE, LONNIE
2110	BRAMBLES USA INC (DEL)
2121	OCCUPANT UNKNOWNN
2151	IMPERIAL WEST CHEMICAL CO
2180	CANNED FOODS INC
2190	CLEMENT, MICHAEL H
	VOTER VIGILANCE COMMITTEE
2250	COACH AND CAR EQUIPMENT CORP
2264	HCP INDUSTRIES INC
2276	GOLDEN STATE CONTAINER INC
2300	ALLIFT AND EQUIPMENT CO
	ANTIOCH WAREHOUSE
2301	GAYLORD CONTAINER CORPORATION
2400	A1 IRON WORKS
2540	ANTIOCH PAVING CO INC
3200	RICHARD ED DISCING
3307	SAN JOAQUIN YACHT HARBOR

Target Street	Cross Street	Source
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WILBUR AVE 1995 (Cont'd)

3500	CLEMENT MICHAEL H CORP
	EAST BAY WELDING SUPPLY INC
	GOLDEN LEAVES PUBLISHING
3600	ANTIOCH ROCK & READY-MIX
	RIVER CITY AGGREGATE LLC
3660	OLSON NORMAN WELDING
3665	DIAMOND MECHANICAL INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 1992

1	QUALITY AUTO REPAIR
5	ALCORN RETREADING AND REPAIR
11	ANTIOCH AUTO MASTERS
	C & R TIRE
137	DISCOVERY SQUARE APARTMENTS
	GONZALEZ, N A
	GUTIERREZ, ROJAS A
	MORGAN, HELGA
	VIEYRA, L
201	GARGALIKIS, JOHN
215	KIMMEL, D
	ODELL, GEORGE
221	ARROYOS, ARTHUR P
	CASTRO, M
	GREEN, CHERYL
521	RITTER MANUFACTURING CO INC
545	ANTIOCH ROCK & READY-MIX
553	L&P THRILL A MINUTE SLIP 46
	VANALLEN, DANNY
600	BORUNDA, ROBERT
	BUTTERFIELD, MIKE
	CARRANZA, IGNACIO
	CARTER, R
	CASTANEDA, LORETO
	CASZATT, JEFFREY J
	CLINE, J C
	DELEO, JULIE
	FISTER, DAWN
	GOMEZ, MARK
	GRACY, GEORGE
	HAMMETT, M
	HUNDLEY, JOHN
	KAMANA, BRIAN
	KOBYLANSKI, THERESA
	MARKS, STEVEN
	MCCOWN, K
	MIN, BYUNG H
	MURGUIA, G
	MURPHY, PATTI
	PADUA, DANIEL
	RUSCITTI, JOE
	SECOR, JAMES L
	SHIPES, JANE
	VANWINKLE, WENDY
	WILCOX, ROBERT J
607	VERCO MANUFACTURING INC
620	CALIFORNIA CABINETS & FIXTURES
701	FURNO, LARRY W
749	GUADAGNO, F
	VIVEROS, HECTOR

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

WILBUR AVE 1992 (Cont'd)

801	EASTERN CNTRA CSTA TRNST AUTH
1379	BAILEY, RONEY
1701	IMPERIAL WEST CHEMICAL CO
1779	DITCO A CALIFORNIA CORPORATION
	GAYLORD CONTAINER CORPORATION
1900	GWF POWER SYSTEMS COMPANY
2013	GOETTSCH, MARK
2032	CHISM, JOHN JR
2038	BALOCCO, JEFF
2110	TOTAL STORAGE CONCEPTS INC
2140	GOLDEN STATE CONTAINER INC
2180	CANNED FOODS INC
2190	CLEMENT, MICHAEL H
	GOLDEN GATE GRAPHICS
2264	HCP INDUSTRIES INC
	HIGH TECH ELECTRIC INC
2275	GENESIS MANUFACTURING INC
2300	ALLIED FOOD DISTRIBUTORS INC
	ANTIOCH WAREHOUSE
	OLSEN, NORMAN P JR
2301	DIAMOND MECHANICAL INC
2400	A1 IRON WORKS
	SPECIAL MACHINE & METALS II
2600	TYLER CONSTRUCTION INC
3400	GWF POWER SYSTEMS COMPANY
3500	CLEMENT MICHAEL H CORP

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

WILBUR AVE 1989



2100	XXXX	00	
2110	*TOTAL STRG CONCEPTS	778-5500	7
2160	XXXX	00	
2170	*A D K DISTRIBUTION	779-0826	8
2180	*CANNED FOODS 98	778-4630	+9
2190	*CLEMENT MICHL H	778-3994	7
	*GOLDEN GT GRAPHICS	778-3999	7
2240	*ALLIED TUBE&CONDUIT	754-6699	8
2264	*H C P IND INC	754-0645	+9
	*WESTRN TIRE	778-1600	8
2280	*DELTA DRYWALL SPLY	754-3991	+9
2300	*ALLIED FOOD DISTBS	778-4788	+9
	*GUILEY TRUCKING	778-7001	8
	OLSEN Norman P Jr	757-4333	8
2301	*DIAMOND MECHANICAL	757-4640	8
NO #	ALLISON Hal	757-5916	
NO #	BIRDSELL R	754-4161	7
NO #	*BRIDGEHD DRY DOCK	757-7300	
NO #	*BRIDGEHD PROPELLER	757-7500	
NO #	*CA ST TRNSP TL BRDG	754-3222	2
NO #	DALY Francis M	757-7295	+9
NO #	DALY Marilyn	757-7295	+9
NO #	*DOMTAR GYPSUM AMER	757-2870	
NO #	DRAGON Anna	757-2093	
NO #	EVANS Robt L	757-9690	
NO #	FELT E F	757-5997	3
NO #	FLEMING V H	757-5154	
NO #	MARTINEZ M E	757-5508	3
NO #	NICHOLAS Stephen F	757-1888	2
NO #	PHILLIPS Jas	778-6099	7
NO #	*SAN JOAQUIN YACHT	757-9883	0
NO #	*SEVEN ABOWDS THE	757-9977	
*	60 BUS 57 RES	30 NEW	

APPENDIX E

REGULATORY AGENCY RECORDS

INDUSTRIAL LOT WITH RAILROAD SIDING (07990014)

2600 WILBUR AVENUE
ANTIOCH, CA 94509
CONTRA COSTA COUNTY
SITE TYPE: VOLUNTARY CLEANUP

PROJECT MANAGER: ERIC CHODOROFF
SUPERVISOR: BARBARA COOK
OFFICE: CLEANUP BERKELEY
CENSUS TRACT: 6013306002
CALENVIROSCREEN PERCENTILE SCORE: 71-75%

Site Information

CLEANUP STATUS
CERTIFIED AS OF 3/6/2006

SITE TYPE: VOLUNTARY CLEANUP
NATIONAL PRIORITIES LIST: NO
ACRES: 10.28 ACRES
APN: 051-032-009-6, 051032009
CLEANUP OVERSIGHT AGENCIES:
CONTRA COSTA COUNTY
DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
RWQCB 5S - CENTRAL VALLEY

ENVIROSTOR ID: 07990014
SITE CODE: 201534
SPECIAL PROGRAM: DESIGNATION OF SINGLE AGENCY
FUNDING: SITE PROPONENT
ASSEMBLY DISTRICT: 11
SENATE DISTRICT: 07

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
MANUFACTURING - PAPER

POTENTIAL CONTAMINANTS OF CONCERN
TPH-MOTOR OIL
TPH-DIESEL

POTENTIAL MEDIA AFFECTED
SOIL

Site History

The parcel is mostly undeveloped and unoccupied except for out-of-service railroad sidings and concrete pads. The railroad sidings were constructed in the late-1940s/early-1950s and were used until the early 1990s. They were used to transport products and materials to the East Mill (2603 Wilbur Avenue). A 50 foot high and 175 foot diameter aboveground storage tank was constructed at the Site in the early to mid-1970s and used to store fuel oil and possibly black liquor until 1992. The tank was closed and demolished in 1999. Concrete pads were constructed on the eastern side of the property during the mid to late-1980s as part of an experimental sludge composting operation. A credit union operated from the early to mid 1970s until the late 1990s.

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Alan C. Lloyd, Ph.D.
Agency Secretary
Cal/EPA

Department of Toxic Substances Control

Maureen F. Gorsen, Director
700 Heinz Avenue, Suite 200
Berkeley, California 94710-2721

Arnold Schwarzenegger
Governor

March 6, 2006

Henry M. Thatcher, Site Manager
Gaylord Container Corporation, d/b/a/
Inland Paperboard and Packaging, Antioch Mill
2301 Wilbur Avenue
P.O. Box 10
Antioch, California 94509

Dear Mr. Thatcher:

The Department of Toxic Substances Control (DTSC) has completed review of the Preliminary Endangerment Assessment for the Industrial Lot with Railroad Siding (PEA) prepared by Blasland, Bouck and Lee, Inc. (BBL) and dated February 2006. The Industrial Lot with Railroad Siding Site is an approximately 10.28 acre Site located at 2600 Wilbur Avenue (Parcel #051-032-009-6) in Antioch, Contra Costa County, California. DTSC provided oversight for the preparation of the PEA pursuant to Voluntary Cleanup Agreement Docket No. HSA-A 03/04-084 signed with Gaylord Container Corporation. DTSC is the Administering Agency for this property per the California Environmental Protection Agency (Cal/EPA) Site Designation Committee's December 9, 2003 Resolution No. 03-07.

The Site was undeveloped prior to the late-1940s when railroad sidings were installed. An aboveground storage tank (AST) was constructed at the site in the early to mid 1970s, surrounded by an eight to nine foot high berm. The AST contained bunker C fuel oil until it was permanently removed from service in 1992. A pipeline ran from the East Mill, located to the north of the site, to the AST. The AST and a portion of the pipeline were removed in 1999. The remainder of the pipeline that ran from the East Mill to the AST was removed in 2005. A credit union office was constructed on the western boundary of the Site in the mid 1970s and was demolished in the late 1990s. In addition, several concrete slabs were constructed on the eastern side of the Site in the mid to late 1980s for an experimental sludge composting operation and remain intact on site.

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A series of soil investigations were conducted at this Site in 2003, 2004, and 2005. In 2003, BBL collected nine subsurface soil samples from three deep borings in the vicinity of the AST (3 depth intervals) that were analyzed for semi-volatile organic compounds (SVOCS), petroleum hydrocarbons, and dioxins/furans. Six surface soil samples were also collected along the railroad siding and analyzed for Title 22 metals, volatile organic compounds (VOCs), SVOCs, petroleum hydrocarbons, and dioxins/furans. Three soil and three concrete chip samples were collected from the concrete pads on the eastern side of the Site and analyzed for dioxins/furans.

In 2004, BBL collected surface and shallow soil samples from seven locations and analyzed for priority pollutant metals, polycyclic aromatic hydrocarbons (PAHs), dioxin/furans, and total petroleum hydrocarbons (TPH), with VOCs analyzed in six of the shallow samples. Surface soil samples at two locations were also analyzed for organochlorine pesticides. In addition, soil samples were collected from depths just above the groundwater table at four locations and analyzed for PAHs, TPH, and VOCs. An additional sample was collected from one boring 14 to 15 feet below ground surface where dark-colored soil was observed. Groundwater samples were also collected from two locations and analyzed for PAHs, TPH, and VOCs; depth to groundwater ranged from 17 to 24 feet bgs.

During the 2005 removal of the pipeline between the Site and the East Mill Site, six soil confirmation samples were collected from the bottom of the pipeline excavation. Samples were analyzed for petroleum hydrocarbons in the diesel and motor oil ranges following silica gel cleanup and PAHs.

These investigations determined that:

- All metals and pesticides were either not detected or the maximum concentrations detected were either within background ranges or below residential preliminary remediation goals (residential PRGs) developed by the U.S. Environmental Protection Agency (EPA).
- All detected concentrations of volatile and semivolatile organic compounds were below their associated residential PRG.
- Of the thirty-three soil samples from the Site and six final confirmation soil samples from the pipeline excavation, only one shallow soil sample contained a polycyclic aromatic hydrocarbon (PAH) above its residential PRA. Benzo(a)pyrene was detected at 100 micrograms per kilogram (ug/kg), exceeding its residential PRG of 62 ug/kg in a sample from RR-3RE from 2 to 2.5 feet below the ground surface.
- Twenty-seven samples were analyzed for dioxin/furans (WHO Dioxin TEQ). Two samples, which had WHO Dioxin TEQ concentrations of 4.33 and 10.5 picograms per gram (pg/g), were above the residential PRG of 3.9 pg/g but below the industrial PRG of 16 pg/g. The dioxin congener profiles for one of the

two samples was similar to the ambient congener profile while the other was similar to the profile from the East Mill indicative of process-related material. The term dioxins/furans refers to polychlorinated dibenzo-p-dioxins (dioxins) and polychlorinated dibenzofurans (furans).

- Thirty-three soil samples from the Site and six final soil confirmation samples from the pipeline excavation were analyzed for petroleum hydrocarbons. With the exception of one sample, concentrations of TPH were detected below site screening levels of 100 milligrams per kilogram (mg/kg) diesel range hydrocarbons and 500 mg/kg motor oil range hydrocarbons, which were set to be consistent with the Contra Costa County Environmental Health Department's screening levels. TPH exceeded the site screening levels in only one surface soil sample (RRDB-2RE), which had 130 mg/kg TPH as diesel and 1,100 mg/kg TPH as motor oil. However, TPH was not detected in deeper sample (2 to 2.5 feet bgs) at the same location. Final soil confirmation samples contained petroleum hydrocarbons below the site screening levels.

- Chemicals detected in groundwater were at or below their associated California Maximum Contaminant Levels (MCLs). MCLs are health protective drinking water standards.

Using the maximum concentrations of each constituent of concern identified as the exposure point concentration, the methodology contained in the Preliminary Endangerment Assessment calculates an estimated risk of 1×10^{-5} and a non-carcinogenic hazard index of 0.01. Using the U.S. Environmental Protection Agency's Risk Assessment Guidance for Superfund methodology with a 95% upper confidence limit of the mean concentration as the exposure point concentration, the total residential risk was 1×10^{-6} for children and 5×10^{-7} for adults. Both are at or below the Cal/EPA target risk level of 1×10^{-6}. The hazard indices of 0.001 and 0.0003 were well below the de minimis risk level of 1.

Based upon DTSC's evaluation of the information contained in the reports submitted, the Site does not appear to pose a threat to human health or the environment under residential land use. Therefore, DTSC determines that no further action is necessary with respect to investigation and remediation of hazardous substances at the Site and a certificate of completion is enclosed. As with any real property, if previously unidentified contamination is discovered at the Site, additional assessment, investigation and/or cleanup may be required.

If you have any questions regarding this determination, please contact Janet Naito at 510-540-3833 or jnaito@dtsc.ca.gov.

Sincerely,

Barbara J. Cook, P.E., Chief
Northern California
Coastal Cleanup Operations Branch

enclosure

cc: Ms. Deborah Schmall, Esq.
Mr. Kevin Poloncarz, Esq.
Farella, Braun & Martel, LLP
Russ Building
235 Montgomery Street
San Francisco, California 94104

Mr. Duncan Austin
Central Valley Region
Regional Water Quality Control Board
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Ms. Dena Hutchin
Hazardous Materials Programs
Contra Costa Health Services
4333 Pacheco Boulevard
Martinez, California 94553-2229

Ms. Bridgette DeShields
Blasland, Bouck & Lee, Inc.
1670 Corporate Circle, Suite 200
Petaluma, California 94954

Number: 03-07, Property #7

CERTIFICATE OF COMPLETION

Unified Agency Review of Hazardous Materials Release Sites
California Health and Safety Code Sections 25260-25268

The Department of Toxic Substances Control was designated as the Administering Agency by the Site Designation Committee after a request by Gaylord Container Corporation and TIN, Inc., the successor by merger to Gaylord Container Corporation (the Responsible Party) to oversee the Site Investigation and Remedial Action at the Industrial Lot with Railroad Siding Site (Parcel #051-032-009-6)(the Hazardous Materials Release Site). See Resolution No. 03-07, attached as Exhibit A to this Certificate.

In accordance with Health and Safety Code section 25264, the Administering Agency, after appropriate consultation with other agencies, has determined and/or certifies that:

1. The Site Investigation and Remedial Action at the Site has been satisfactorily completed and a permanent remedy has been accomplished [Section 25264(b)]. Actions taken are described in Exhibit B attached.
2. Applicable Remedial Action standards and objectives were achieved [Section 25264(b)].
3. The Responsible Party has complied with the requirements of all state and local laws, ordinances, regulations, and standards that are applicable to the Site Investigation and Remedial Action [Section 25264(c)].

No agency may take action against the Responsible Party with respect to the hazardous materials release at the site except as specified in Health and Safety Code section 25264(c)(1) through (6). In addition, no agency may take further action with respect to the hazardous materials release, except as provided in Health and Safety Code section 25265, as DTSC is the sole agency for determining if any of the conditions specified in Health and Safety Code section 25264(c)(1) through (6) are applicable at the Hazardous Materials Release Site. DTSC remains the sole agency to make such determinations, and the certifications of this Certificate of Completion remain in effect, regardless of the ownership of the Hazardous Materials Release Site.

Issued this 6 day of March, 2006 by the Administering Agency

Name: Barbara J. Cook, P.E., Chief
Coastal Cleanup Operations Branch

Signature: Barbara J Cook

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
SITE DESIGNATION COMMITTEE
RESOLUTION NO. 03-07
December 9, 2003
Gaylord Container Corporation d/b/a Inland Paperboard and Packaging, Inc.

WHEREAS, Chapter 6.65 of Division 20 of the Health and Safety Code, commencing with Section 25260, establishes a Site Designation Committee; and

WHEREAS, the Site Designation Committee may designate an Administering Agency to oversee a site investigation and remedial action at a hazardous materials release site upon request of a responsible party; and

WHEREAS, Gaylord Container Corporation d/b/a Inland Paperboard and Packaging, Inc. (Gaylord Container), a responsible party as defined in Health and Safety Code Section 25260(h), requested that the Site Designation Committee designate an Administering Agency to oversee site investigation and remedial action at nine (9) separate properties located at:

1. "Almond Orchard", 2101 E. 18th Street, Antioch, Contra Costa County, Parcel # 051-100-022-6 (approximately 8 acres);
2. "Smaller Parcel Contiguous with Almond Orchard Main Tract" (no address), Contra Costa County, Parcel #051-100-023-4 (approximately .58 acres);
3. "Industrial Lot with Tank", Wilbur Avenue, Antioch, Contra Costa County (no address), Parcel # 051-100-028-3 (approximately 3.78 acres);
4. "Agricultural Tract and Recreational Tract", 1030 Apollo Court, Antioch, Contra Costa County, Parcel # 051-100-030-9 (approximately 46.76 acres);
5. "West Island", Sacramento County (no address), Parcel # 158-0100-001-0000 (approximately 155.82 acres);
6. "Vineyard Tract" E. 18th Street, Antioch, Contra Costa County, Parcel # 051-052-056-2 (approximately 24.79 acres);
7. "Industrial Lot with Railroad Siding", 2600 Wilbur Avenue, Antioch, Contra Costa County, Parcel # 051-032-009-6 (approximately 13.35 acres);
8. "West Mill", 2301 Wilbur Avenue, Antioch, Contra Costa County, Parcel # 051-020-006-6 (approximately 27.70 acres); and
9. "East Mill", 2603 Wilbur Avenue, Antioch, Contra Costa County, Parcel # 051-031-005-5 (approximately 80.11 acres); and

known as "the Site."

WHEREAS, the Site is a hazardous materials release site as defined in Health and Safety Code Section 25260(e); and

WHEREAS, the Site Designation Committee received the request for designation of Administering Agency on October 23, 2003; and

WHEREAS, the Site Designation Committee properly noticed a public meeting to consider the request; and

WHEREAS, the Site Designation Committee held a meeting on December 9, 2003, and provided an opportunity at the meeting for public comment regarding the application; and

WHEREAS, the Site Designation Committee considered the application and, furthermore, considered all factors and criteria set forth in Health and Safety Code Section 25262(c); and

WHEREAS, Gaylord Container agrees to reimburse the Department of Toxic Substances Control and, where agreed upon among the parties, other appropriate agencies for their appropriate oversight costs and/or costs of permit development, where those agencies' significant involvement and/or permit development is necessary for the furtherance of the project goals; and

WHEREAS, the Site Designation Committee has determined that, based upon consideration of all of the factors listed in Health and Safety Code Section 25262(c), the Department of Toxic Substances Control is the appropriate agency to act as the Administering Agency.

NOW, THEREFORE BE IT RESOLVED that the Site Designation Committee hereby designates the Department of Toxic Substances Control as the Administering Agency for the Site; and

BE IT FURTHER RESOLVED that this designation is subject to the following conditions:

1. The Department of Toxic Substances Control shall consult, on an ongoing basis, with the appropriate agencies that have expressed an interest in this Site, including all agencies that would otherwise be issuing a permit or other form of authorization:

    a) In administering all state and local laws, which are applicable;

    b) In determining the adequacy of site investigation and remedial action activities and in determining and imposing appropriate land use restrictions under Health and Safety Code section 25355.5; and

    c) Prior to issuing any permit or other form of authorization.

2. Such consultation will also include notification if information becomes available to the Department of Toxic Substances Control that the original application was inaccurate or was incomplete.

3. The Department of Toxic Substances Control Board shall submit quarterly reports to the Site Designation Committee and to all appropriate agencies concerning the status of the investigation and remediation of the Site and shall comply with applicable public participation requirements.

4. The Department of Toxic Substances Control shall provide at least 60 days notice to interested agencies and parties prior to issuing a certificate of completion for the Site. The Department of Toxic Substances Control may issue certificates of completion for each of the nine properties listed above separately, as appropriate.

CERTIFICATION

The undersigned Chair of the Site Designation Committee does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the Site Designation Committee held in Sacramento, California on December 9, 2003.

Chair, Site Designation Committee

15 December 2003
Date

EXHIBIT B

A *Preliminary Endangerment Assessment for the Industrial Lot with Railroad Siding* was prepared by Blasland, Bouck & Lee, Inc. (BBL) and dated January 2006. The Industrial Lot with Railroad Siding Site is an approximately 10.28 acre Site located at 2600 Wilbur Avenue (Parcel #051-032-009-6) in Antioch, California. The PEA describes the results of the sampling and risk evaluation conducted to determine whether there has been a release of a hazardous substance at the Site that could pose a threat to public health and/or the environment. The Site was undeveloped prior to the late-1940s when railroad sidings were installed. An aboveground storage tank (AST) was constructed at the site in the early to mid 1970s, surrounded by an eight to nine foot high berm. The AST contained bunker C fuel oil until it was permanently removed from service in 1992. A pipeline ran from the East Mill, located to the north of the site, to the AST. The AST and a portion of the pipeline were removed in 1999. A credit union office was constructed on the western boundary of the Site in the mid 1970s and was demolished in the late 1990s. In addition, several concrete slabs were constructed on the eastern side of the Site in the mid to late 1980s for an experimental sludge composting operation and remain intact on site. Based upon visual observations and the soil sampling conducted, there were releases of petroleum hydrocarbons from portions of the pipeline.

Soil samples were collected from this Site in 2003, 2004, and 2005. In 2003, BBL collected nine subsurface soil samples from three deep borings in the vicinity of the AST (3 depth intervals) that were analyzed for semi-volatile organic compounds (SVOCS), petroleum hydrocarbons, and dioxins/furans. Six surface soil samples were also collected along the railroad siding and analyzed for Title 22 metals, volatile organic compounds (VOCs), SVOCs, petroleum hydrocarbons, and dioxins/furans. Three soil and three concrete chip samples were collected from the concrete pads on the eastern side of the Site and analyzed for dioxins/furans.

In 2004, BBL collected surface and shallow soil samples from seven locations and analyzed for priority pollutant metals, polycyclic aromatic hydrocarbons (PAHs), dioxin/furans, and total petroleum hydrocarbons (TPH), with VOCs analyzed in six of the shallow samples. Surface soil samples at two locations were also analyzed for organochlorine pesticides. In addition, soil samples were collected from depths just above the groundwater table at four locations and analyzed for PAHs, TPH, and VOCs. An additional

sample was collected from one boring 14 to 15 feet below ground surface where dark-colored soil was observed. Groundwater samples were also collected from two locations and analyzed for PAHs, TPH, and VOCs; depth to groundwater ranged from 17 to 24 feet bgs.

During the 2005 removal of the pipeline between the Site and the East Mill Site, six soil confirmation samples were collected from the bottom of the pipeline excavation. Samples were analyzed for petroleum hydrocarbons in the diesel and motor oil ranges following silica gel cleanup and PAHs.

DISCUSSION OF SOIL SAMPLING RESULTS

Metals. Seventeen soil samples were analyzed for metals. The maximum concentrations of all metals were either within background ranges or below residential PRGs.

Pesticides. Two samples were analyzed for pesticides. The pesticide 4,4'-DDT was detected in one sample and this value and detection levels for the other samples and analytes were all below residential PRGs.

PAHs. Thirty-three soil samples from the Site and six final confirmation soil samples from the pipeline excavation were analyzed for PAHs. Only one shallow soil sample contained benzo(a)pyrene at 100 ug/kg, exceeding its residential PRG of 62 ug/kg. All the remaining samples did not contain PAHs above their associated residential PRG.

SVOCs/VOCs. Nineteen soil samples were analyzed for VOCs and fifteen samples were analyzed for SVOCs. All detected concentrations of VOCs and SVOCs were below their associated residential PRG.

Dioxins/Furans. Twenty-seven samples were analyzed for dioxin/furans (WHO Dioxin TEQ). Two samples, which had WHO Dioxin TEQ concentrations of 4.33 and 10.5 picograms per gram (pg/g), were above the residential PRG of 3.9 pg/g but below the industrial PRG of 16 pg/g. The dioxin congener profiles for one of the two samples was similar to the ambient congener profile while the other was similar to the profile from the East Mill indicative of process-related material.

Petroleum Hydrocarbons. Thirty-three soil samples from the Site and six final soil confirmation samples from the pipeline excavation were analyzed for petroleum hydrocarbons. With the exception of one sample, concentrations of TPH were detected below site screening

levels of 100 milligrams per kilogram (mg/kg) diesel range hydrocarbons and 500 mg/kg motor oil range hydrocarbons, which were set to be consistent with the Contra Costa County Environmental Health Department's screening levels. TPH exceeded the site screening levels in only one surface soil sample, which had 130 mg/kg TPH as diesel and 1,100 mg/kg TPH as motor oil. However, TPH was not detected in deeper sample (2 to 2.5 feet bgs) at the same location. Final soil confirmation samples contained petroleum hydrocarbons below the site screening levels.

Groundwater. Arsenic, nickel, benzo(b)fluoranthene, chrysene, fluoranthene, naphthalene, and pyrene were detected in one groundwater sample at concentrations at or below California Maximum Contaminant Levels (MCLs). MCLs are health protective drinking water standards.

RISK EVALUATION

Using the maximum concentrations of each constituent of concern identified as the exposure point concentration, the methodology contained in the Preliminary Endangerment Assessment calculates an estimated risk of 1×10^{-5} and a non-carcinogenic hazard index of 0.01. Using the U.S. Environmental Protection Agency's Risk Assessment Guidance for Superfund methodology with a 95% upper confidence limit of the mean concentration as the exposure point concentration, the total residential risk was 1×10^{-6} for children and 5×10^{-7} for adults. Both are at or below the Cal/EPA target risk level of 1×10^{-6}. The hazard indices of 0.001 and 0.0003 were well below the de minimis risk level of 1.

California Environmental Protection Agency
Department of Toxic Substances Control

PUBLIC PARTICIPATION PLAN
GAYLORD CONTAINER CORPORATION
Mill and Non-Mill Properties
Antioch, CA

October, 2004

Approved: _____
Nancy Cook
Public Participation Specialist
Department of Toxic Substances Control

Date: _____

Executive Summary

The purpose of this Public Participation Plan (PPP) is to formally document community concerns regarding a site or facility and to identify specific public participation activities that will be implemented to ensure the community is involved in the agency decision-making process. This Public PPP has been prepared by the California Department of Toxic Substances Control (DTSC) to describe all activities undertaken or planned to inform and involve the community during investigation and clean-up of the Gaylord Container Corporation, d/b/a Inland Paperboard and Packaging, Inc. (Gaylord), properties in Antioch, California. This plan also includes a description of the Gaylord properties and relevant background information, a description of the surrounding community and a summary of their issues and concerns, and an outline of specific public participation activities to be conducted during the investigation and clean-up process. Each of these areas is summarized below. More detailed information on each category is listed in the PPP and Appendices.

SITE AND COMMUNITY DESCRIPTION: The Gaylord site consists of nine properties located closely together in the unincorporated Sacramento County, unincorporated Contra Costa County, and the City of Antioch, Contra Costa County. The Antioch Mill has been operated by a succession of different owners and operators as a pulp and paper mill and containerboard and linerboard production facility for over 50 years. The Antioch Mill was closed at the end of September 2002 and has been undergoing various decommissioning and demolition activities since then. Gaylord intends to address any environmental conditions at the group of neighboring parcels that comprise the former Antioch Mill properties so that these parcels may be sold for redevelopment and use by third parties.

Antioch is located near the confluence of the Sacramento and San Joaquin Rivers approximately 45 miles from the City of San Francisco. Antioch is an ethnically diverse community with a burgeoning population of professionals and skilled workers that has reached nearly 100,000 people. According to the year 2000 census, a total of 55.9 percent are Caucasian; 22.1 percent Hispanic; 9.4 percent Black/African American; 7.2 percent Asian; 0.6 percent American Indian/Alaska Native; 0.3 percent Native Hawaiian/Other Pacific Islander; and 0.2 percent of some other race. A total of 4.2 percent of people reported two or more races. The average household size is 3.07 people with a per capita income of $22,152. Individuals at the poverty level totaled 8.5 percent. A total of 28.6 percent of the people living in Antioch graduated high school, 13.5 percent had bachelor's degrees, and 4.6 percent had professional degrees.

REGULATORY INVOLVEMENT: Gaylord actively chose to involve a regulatory agency in the oversight of investigation and clean-up activities at their properties in Antioch, California. As such, DTSC entered into an agreement with Gaylord to provide this oversight. DTSC will provide regulatory oversight for the investigation and clean-up activities and will coordinate the input and involvement of other agencies. Gaylord will perform such activities and reimburse DTSC for costs related to its oversight. Additionally, there is regulatory involvement in the form of permits and approvals for ongoing operations related to operation of the power plant at the West Mill and management of stormwater.

COMMUNITY CONCERNS: A total of 19 community members were interviewed to obtain a sample of the community's views. The community members generally seemed confident with DTSC's ability to manage the site cleanup process and most concerns were related to site reuse. Other issues included noise, traffic, water resources, and groundwater quality.

RECOMMENDED PUBLIC PARTICIPATION ACTIVITIES: DTSC has included a number of public participation activities in this PPP intended to continue its goal of ensuring that the local community is informed about the site investigation and cleanup activities and given an opportunity to ask questions about clean-up and reuse activities that will be occurring at the Gaylord properties. Some of these activities are: providing fact sheets to the community during key milestones; keeping public documents available for public review in the information repository; providing public meetings, as necessary; and advertising public comment periods in local news sources.

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1. Introduction

This Public Participation Plan (PPP) has been prepared by the California Department of Toxic Substances Control (DTSC) to describe all activities undertaken or planned to inform and involve the community during investigation and clean-up of the Gaylord Container Corporation, d/b/a Inland Paperboard and Packaging, Inc. (Gaylord), properties in Antioch, California. This plan follows DTSC's *Public Participation Manual* (October 2001). This PPP also incorporates the community profile for the area surrounding the Gaylord properties.

Information used to compile this PPP was obtained through material provided by Gaylord and its contractors, the results of a community survey, interviews with community members, and review of several sources of information about the areas of the City of Antioch and Contra Costa County surrounding the Gaylord properties.

1.1 Purpose and Objectives of Plan

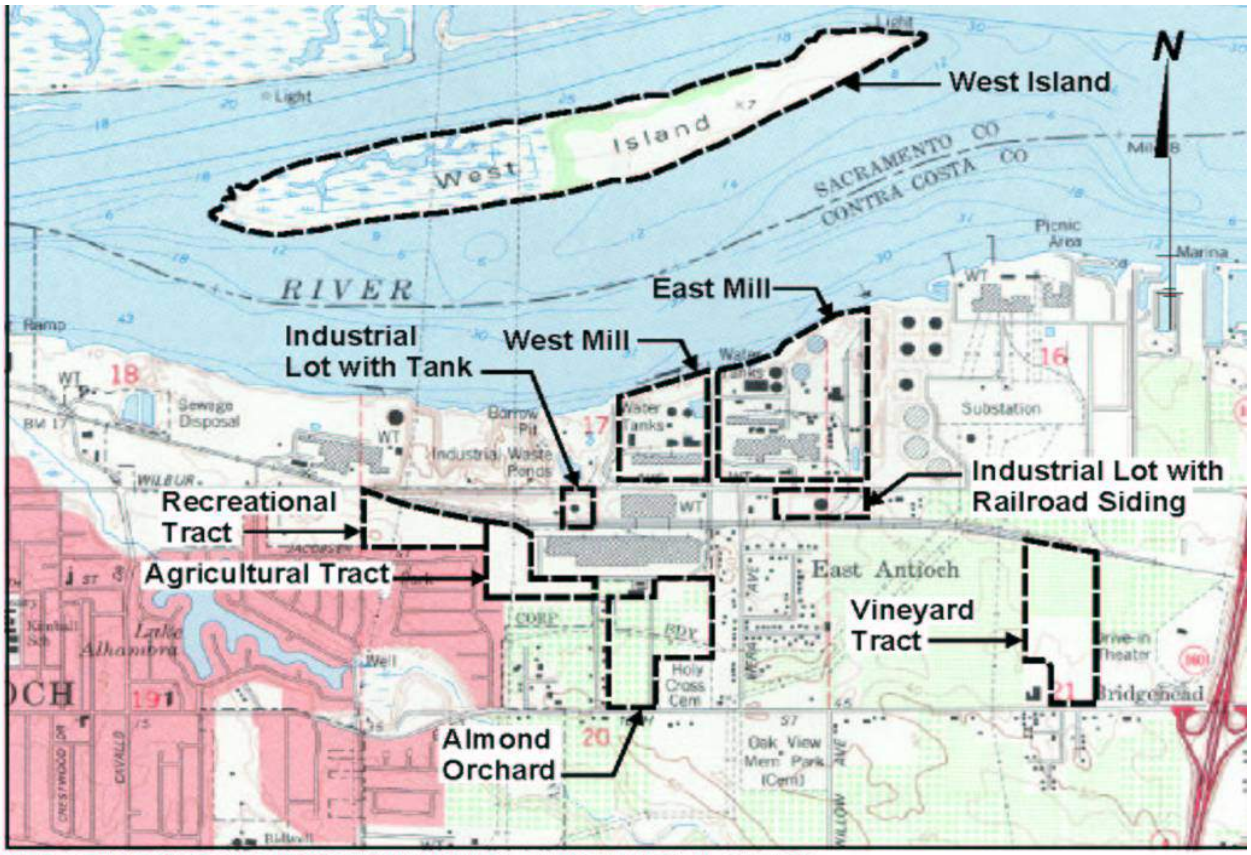
The purpose of this PPP is to formally document community concerns regarding a site or facility and to identify specific public participation activities that will be implemented to ensure the community is involved in the agency decision-making process. The PPP includes a description of the Gaylord properties and relevant background information (Section 2), a description of the surrounding community and a summary of their issues and concerns (Section 3), and an outline of specific public participation activities to be conducted during the investigation and clean-up process (Section 4).

The PPP will be updated, as necessary, to reflect relevant changes in the project such as changes in local demographics or project milestones.

2. Site History and Background

2.1 Site Description and History

The Gaylord site consists of nine properties located closely together in the unincorporated Sacramento County, unincorporated Contra Costa County, and the City of Antioch, Contra Costa County. The Antioch Mill has been operated by a succession of different owners and operators as a pulp and paper mill and a containerboard and linerboard production facility for over 50 years. In April 2002, Temple-Inland, Inc. ("TIN") acquired nearly all of Gaylord, the company that had been operating at the West Mill site since 1986 and also had operated the East Mill site for a brief period of time between 1988 and 1991. Soon thereafter, TIN/Gaylord announced that it would permanently cease all manufacturing operations at the Antioch Mill. The Antioch Mill was closed at the end of September 2002 and has been undergoing various decommissioning and demolition activities since then. Gaylord will not be conducting any manufacturing or production activities at the former Antioch Mill site in the future and intends to address any environmental conditions at the group of neighboring parcels that comprise the former Antioch Mill site, so that these parcels may be sold for redevelopment and use by third parties.



REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., ANTIOCH NORTH, CA, 1978.

Gaylord has already conducted a series of environmental investigations at these nine properties and intends to proceed with additional environmental activities at these properties in a manner that eliminates potentially unacceptable health and environmental risks, in light of the properties' potential future land uses. The sections below provide a brief summary of the West and East Mill properties as

well as the remaining seven properties, collectively referred to as the "non-mill properties", some of which were historically associated with operations occurring at the West Mill and/or East Mill sites.

WEST MILL – The West Mill site is located at 2301 Wilbur Avenue in unincorporated Antioch. The West Mill is bordered to the north by the San Joaquin River, to the west by the closed Kemwater North America's facility, and to the east by former East Mill site (described below). The 27.7 acre site is zoned for heavy industrial use. Linerboard was produced from old corrugated containers and recycled fiber at the West Mill from 1956 until September 2002 when the Mill was permanently shutdown. Industrial equipment and structures are currently located at the West Mill including a machine maintenance shop, office building, and a power plant. Besides the ongoing operation of the power plant, only decommissioning and demolition activities are currently being conducted at the West Mill.

EAST MILL – The East Mill site is located at 2603 Wilbur Avenue in unincorporated Antioch. The East Mill is bordered to the north by the San Joaquin River, to the west by the former West Mill site (described above), and to the east by Mirant Delta (formerly Pacific Gas & Electric). The 80.11 acre property is zoned for heavy industrial use. Paper and pulp manufacturing that involved the Kraft bleach process was conducted here from the late 1940s/early 1950s until the facility was closed in the early 1990s. Most equipment has been demolished and removed from the East Mill with the exception of an abandoned fuel oil aboveground storage tank (AST), a recovery boiler, four aboveground wastewater effluent clarifiers and other wastewater treatment structures, and two high-density fiber storage tanks. A pump house still remains onsite and was formerly used to transfer water used to support East Mill operations. These remaining structures are currently being removed as part of the East Mill demolition activities.

WEST ISLAND – The West Island site is a naturally occurring channel island, located in the San Joaquin River in Sacramento County and comprises between 155 and 174 acres of dry land and wetlands. The island is largely undeveloped and unoccupied, with no existing improvements, other than two high voltage power line towers and two concrete pipelines that had been used from the mid- to late-1950s until the mid-1990s. The pipelines transported wastewater effluent from the former East Mill (described above) operations across the island for discharge into the San Joaquin River deep shipping channel.

INDUSTRIAL LOT WITH TANK – The Industrial Lot with Tank site is located west of the East/West Mill sites described above, on the south side of Wilbur Avenue approximately 0.45 miles west of the intersection with Viera Avenue in Antioch. This Industrial Lot with Tank is 3.78 acres and is zoned industrial. The only structure onsite is an AST, approximately 150-feet in diameter and 48-feet high, constructed in the mid to late-1950s. A 10-foot high earthen berm surrounds the tank. An underground pipeline from the West Mill operation served as a conduit for fuel oil from the tank to the West Mill from the time of its construction until it was drained in the late-1980s when its lines were closed. A steam line, also from the West Mill, was used to provide heat to the tank. In August 2003, the AST was permanently closed.

INDUSTRIAL LOT WITH RAILROAD SIDING – The Industrial Lot with Railroad Siding site is located at or about 2600 Wilbur Avenue in unincorporated Antioch, across from the former East Mill site, approximately 0.2-miles east of the intersection of Wilbur and Viera Avenues. This property is 13.35 acres and is zoned heavy industrial. Currently, the parcel is mostly undeveloped and unoccupied, except for railroad tracks which bisect the property in a north-south direction and concrete pads. The railroad sidings were constructed on this property in the late 1940s or early 1950s and were used until the early 1990's to transport products and other materials to and from the former East Mill site. An AST, measuring approximately 50 feet high and 175 feet in diameter, was constructed on the property in the early to mid-1970s. The AST was closed and demolished in 1999. Concrete pads were constructed

on the eastern side of the property during the mid- to late-1980s for use in an experimental sludge composting operation. A credit union building was located on the property from the early to mid-1970s, until the late-1990s, when the East Mill facility was closed and many of its associated structures were demolished.

RECREATIONAL TRACT – The Recreational Tract site, located at or about 1030 Apollo Court in Antioch, occupies the northwestern 14 acres of the 46-acre undivided parcel that also contains the Agricultural Tract and a portion of the Almond Orchard (described below). From 1973-1976, it was used for spray irrigation/land application of primary wastewater effluent from former West Mill's operations. During this period, the surface layer of soil/paper fiber was periodically removed for offsite management. Used oil from the former West Mill's truck shop was also reportedly applied as a dust suppressant to the roadways and berms surrounding the spray irrigation areas. The Recreational Tract has been leased by the City of Antioch since 1991 and has been developed into a series of baseball fields with bleachers, a concession stand, and asphalt parking areas.

AGRICULTURAL TRACT – The Agricultural Tract site, located at or about 1030 Apollo Court, in Antioch occupies the southeastern 32 acres of the 46-acre undivided parcel (described above). From 1973-1976 (and possibly earlier), it was used for spray irrigation/land application of primary wastewater effluent and filtrate from former West Mill's operations, similar to the Recreational Tract. The Agricultural Tract is zoned for manufacturing and currently is undeveloped, except for high voltage electrical power lines that cross the property (north-south) near the center of the property.

ALMOND ORCHARD – The Almond Orchard property, located at 2101 East 18th Street in unincorporated Antioch, is zoned agricultural, and is 8.78 acres in size. The property was historically used for agricultural purposes from at least the early 1900s and currently contains a non-productive orchard and a small asphalt parking lot that was used by a credit union facility until 2000 or 2001 (on the southern portion of the property). A groundwater supply well and associated equipment and appurtenances are also located on the southern portion of the property and were used to provide water to the West Mill and East Mill.

VINEYARD TRACT - The Vineyard Tract property, located at 3410 East 18th Street in Antioch, is zoned light industrial and is 24.79 acres in size. The Vineyard Tract was used for agricultural purposes since the early 1900s. Fly ash from the recovery boiler and possibly other materials from the East Mill operations were reportedly managed on a portion of the property. Currently, the Vineyard Tract is mostly undeveloped and unoccupied, except for the vineyard and a small building that had once housed a meteorological monitoring station. Two groundwater supply wells are located on the property and were used to provide water to the West Mill operations. A commercial building is located at the southwest corner of the property on a parcel, previously part of the subject property, which was formerly an ink plant operated by the Fibreboard Corporation. The ink plant and associated property were sold in early- to mid-1980s.

2.2 Agency Involvement

On December 9, 2003, the California Environmental Protection Agency (Cal/EPA) Site Designation Committee (consisting of six members representing the State Water Resources Control Board, Cal/EPA, DTSC, Department of Fish and Game, Air Resources Board, and Office of Environmental Health Hazards Assessment) designated DTSC as the Administering Agency with respect to all aspects of Gaylord's ongoing investigation and clean-up activities at the Gaylord properties under the Site Designation Process (Resolution No. 03-07). DTSC will provide regulatory oversight for these activities and will coordinate the input and involvement of other agencies; Gaylord will perform such

activities and reimburse DTSC for costs related to its oversight. Gaylord and DTSC have entered into a Voluntary Environmental Oversight Agreement, dated December 30, 2003, which describes each party's respective roles and responsibilities in more detail.

The facility also holds permits from the Bay Area Air Quality Management District (BAAQMD) and the Central Valley Regional Water Quality Control Board (CVRWQCB) for ongoing operations related to the power plant on the West Mill and management of stormwater.

3. Community

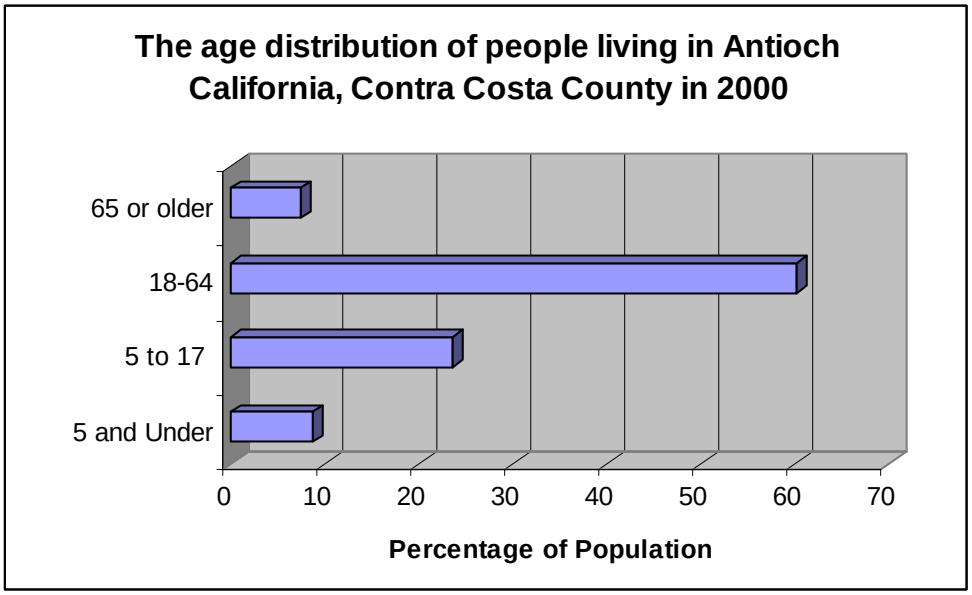
The sections below present the community profile for the area surrounding the Gaylord properties, the history of community involvement, and a summary of the community's issues and concerns regarding the project.

3.1 Community Profile

The oldest town in Contra Costa County, Antioch is located near the confluence of the Sacramento and San Joaquin Rivers in an area of now fast growing Bay Area communities. Located approximately 45 miles from the City of San Francisco, Antioch is a crossroads linking the San Francisco/East Bay region to Sacramento and the Central Valley and a gateway to the plentiful recreational features and cultural facilities of Northern California and the Bay Area. Antioch is an ethnically diverse community with a burgeoning population of professionals and skilled workers that has reached nearly 100,000 people.

Antioch was founded in 1849 by two brothers, William and Joseph Smith. The City of Antioch was incorporated in 1872 and since then has become an attractive location for industry largely due to its strategic position along the San Joaquin River, a direct shipping route to San Francisco Bay and the global economy. In 1906 when the City of San Francisco was leveled by a devastating earthquake, Antioch played a critical roll in the rebuilding of the city by providing raw material for construction. In the past, Antioch had industry which was comprised of coal mines and some asparagus canneries. One historical mine still remains in the area (The Black Diamond Mines Regional Preserve) and serves as an attraction for visitors and local residents.

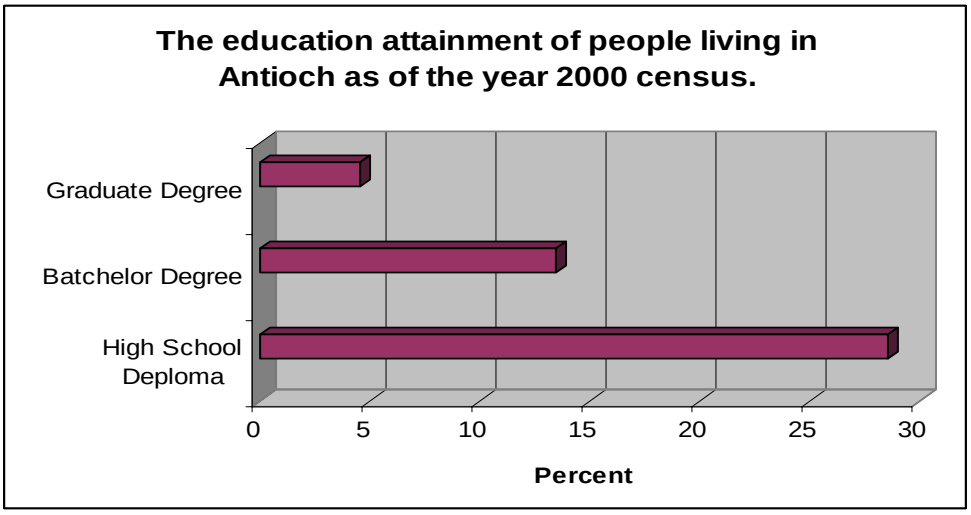
The population of Antioch, according to the year 2000 census, was 90,532 people. Of these, 46,201 (51.0%) were female and 44,331 (49.0%) were male. The median age was 32.3 with 23.6% of the population under 17 years of age, 60.3% of the population in the age range 18 to 64, and only 7.4% aged 65 or older.



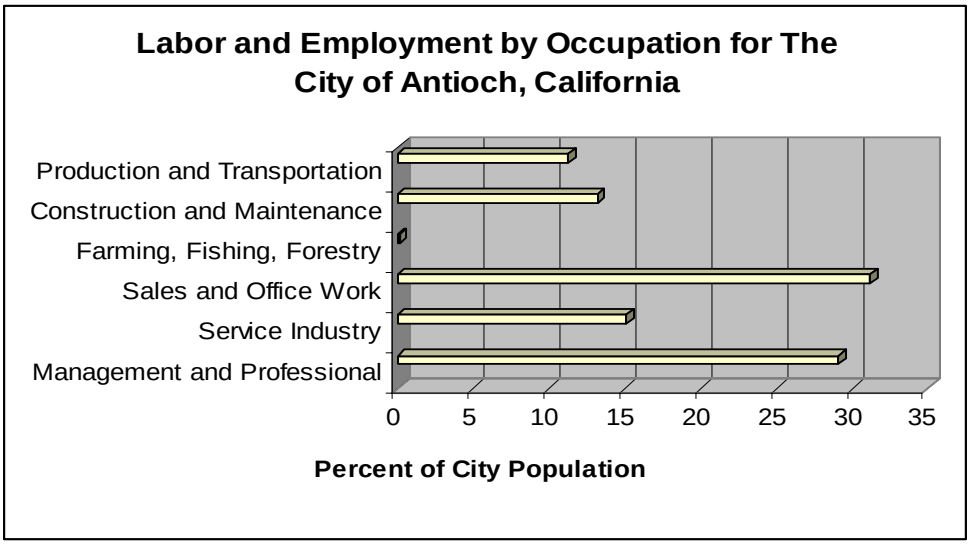
For people reporting one race, 55.9 percent were Caucasian; 22.1 percent were Hispanic; 9.4 percent were Black/African American; 7.2 percent were Asian; 0.6 percent were American Indian/Alaska Native; 0.3 percent were Native Hawaiian/Other Pacific Islander; and 0.2 percent were some other race. A total of 4.2 percent of people reported two or more races.

In 2000, there were 29,338 households in the City of Antioch. The average household size (the individuals residing at a specific address) was 3.07 persons. Families made up 79 percent of the households. The average family size was reported as 3.42 persons, and families with children under the age of 18 were reported at 46.3 percent. The median household income was reported at $60,359, and the median family income was $64,723. With an average household of 3.07 people per house, the per capita income was $22,152. Individuals at the poverty level totaled 8.5 percent.

According to the year 2000 census, 28.6 percent of the people living in Antioch graduated high school, 13.5 percent had bachelor's degrees, and 4.6 percent had professional degrees.



The majority of the population of Antioch works outside of the city limits and 74.2 percent drive alone to work. The mean commute time for Antioch workers is 41.6 minutes.



The breakdown of labor and employment by occupation is illustrated in the above figure.

The Gaylord properties are not located entirely within Antioch city limits. Of the nine properties scheduled for investigation and clean-up, only three are located inside incorporated Antioch, while the remainder of the properties are located in unincorporated Contra Costa or Sacramento County.

The County of Contra Costa, California was incorporated in 1850 as one of the original 27 counties of the State of California, with the City of Martinez as the County Seat. It is one of the nine counties in the San Francisco-Oakland Bay Area and is the ninth most populous county in California, with its population reaching approximately 930,000 as of January 1, 2000. Contra Costa County has one of the fastest growing work forces among Bay Area counties, with growth in its employment base being driven primarily by the need to provide services to an increasing local population. Due to the presence of relatively high-wage skilled jobs and relatively wealthy residents, the County achieves high rankings among all California counties on a variety of income measurements.

Five of the nine Gaylord Container Corporation properties are located within unincorporated areas of Contra Costa County. Although similar in topography and zoning to Gaylord properties located within the City of Antioch, some differences do exist due to different policies of the General Plans for Contra Costa County and the City of Antioch.

The ninth and final property is located on West Island, a naturally occurring channel island located in the San Joaquin River in Sacramento County. The island itself is unpopulated and undeveloped, but provides a rich habitat for aquatic birds and plants.

3.2 History of Community Involvement

Gaylord has been active within the local community throughout its operation, including allocating land in 1991 for the Antioch Youth Sports Complex which was commissioned in 1996. Throughout its production life, Gaylord typically employed a number of people from the community. Gaylord had 182 employees prior to closing the West Mill in 2002 and as many as 500 people in the late 1980s working in both mills.

3.3 Community Concerns and Issues

The description of community concerns and issues below is based upon information obtained through community surveys that accompanied the initial fact sheet (see Section 4.2.2) and in-person community interviews with 19 individuals that were conducted by DTSC and Gaylord's contractor in August 2004. Appendix A provides a summary of the community survey results, Appendix B provides the interview questions, Appendix C contains a summary of the information from the interviews, and Appendix D provides the list of community members that were interviewed.

Below is a brief summary of key issues and concerns raised by community members during the community interviews and responses in italics indicating how DTSC intends to address them.

Cleanup of Gaylord Properties and Costs: Some people inquired about the site investigation and clean-up process, how it would be accomplished and who would be responsible for paying for the cleanup. Community members did not think that taxpayers should pay for the cleanup.

Gaylord Container Corporation has enrolled in DTSC's AB 2061 Voluntary Cleanup Program. Gaylord will conduct, at its own cost, all investigation and cleanup activities. Also, Gaylord will reimburse the State (DTSC) for oversight costs. DTSC will review all documents, plans, and

reports and issue a certificate of completion at the end of the cleanup process for each of the nine properties that specifies that the each property is suitable for its intended future use. There will be a 30-day public review period for the proposed certificate of completion.

Water Supply and Groundwater: A small number of community members indicated that they would be concerned about water quality or access to water/groundwater supply.

The investigation and cleanup process will include assessments of groundwater quality as it relates to potential impacts from activities on the Gaylord properties. Water supply and access issues, however, are outside of DTSC's process.

Antioch Youth Sports Complex: Several community members were familiar with the Antioch Youth Sports Complex property. Some of these community members were interested in the outcome of the clean-up process for this property.

The Antioch Youth Sports Complex, which currently is on the Recreational Tract and in the future will extend onto the Agricultural Tract and a portion of the Almond Orchard based on future development plans, will be addressed through the AB2061 process, similar to all the other properties. DTSC will oversee this process and ensure that the property is cleaned up to the extent necessary to support the planned recreational use.

Traffic and Noise: Some community members mentioned issues related to traffic and noise, both from the cleanup activities and from a future reuse perspective.

Noise and traffic related to clean-up activities will be considered by DTSC through the California Environmental Quality Act evaluation process. DTSC will prepare an environmental document for remedial activities, as appropriate, that will consider these issues. Specific reuse of the properties and noise or traffic issues related to reuse are outside of DTSC's process.

Site Redevelopment: Community members were interested in the redevelopment of the properties as well as annexation plans of the City of Antioch.

Specific reuse of the properties and annexation plans are outside of DTSC's process. However, DTSC's oversight of the investigation and clean-up process will include an assessment of the suitability of each property for future use. Where needed to protect human health and the environment, land use covenants will be used to ensure that site conditions support the future land use.

Communication: Some community members were concerned that renters would not be informed because they would not receive fact sheets.

For any surveys that are returned indicating that the owner does not live at the property, the mailing list will be modified to list "Current Resident" for that address.

4. Public Participation Activities

Below is a description of each of the major public participation activities planned. Please refer to Section 4.3 for the timing of the key public participation activities.

4.1 Purpose and Objectives of Plan

The Public Participation Plan objectives for the Gaylord properties are to:

- Ensure that the local community is provided with timely and accurate information relating to the site investigation and clean-up activities;
- Provide the local community with an opportunity to ask questions about clean-up and reuse activities that will be occurring at the Gaylord properties;
- Encourage representatives from the local community to share their concerns and identify interests and issues associated with clean-up and future reuse plans and progress;
- Formally document community concerns regarding the Gaylord properties and identify specific public participation activities which will be implemented to ensure the community is involved in the agency decision-making during the investigation and clean-up process; and
- Assist DTSC and Gaylord to identify the best ways to address community interests and concerns.

4.2 Recommended Public Participation Activities

The activities described below have been designed to fulfill DTSC's public participation requirements and meet the objectives listed above:

- To ensure that the local community is informed, DTSC will develop a mailing list, provide fact sheets, provide documents and reports at an local information repository, publish public notices in local newspapers, and hold public meetings and/or briefings at a local venue;
- To provide the local community with opportunities to ask questions, DTSC will provide comment cards with fact sheets and at public meetings, provide contact phone numbers on fact sheets and public notices, and take questions and comments at public meetings,;
- To encourage local community representatives to share their concerns, DTSC will survey the local community and hold community interviews;
- To provide documentation of community concerns, DTSC will respond to public comments made in-person at public meetings, by phone, by email, and/or in writing; and
- To identify the best ways to address community interests and concerns, DTSC will consider and utilize the results of community surveys and interviews and information from public comments in implementing this public participation program.

Each of the activities that DTSC will conduct that are listed above are discussed in more detila below.

4.2.1 Information Contacts

Information contracts have been established for the public to direct questions and concerns about the project. These contacts will also be included on DTSC's fact sheets and notices.

Janet Naito, Project Manager
California Environmental Protection Agency
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, CA 94710-2720
(510) 540-3833

And

Nancy Cook, Public Participation Specialist
California Environmental Protection Agency
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, CA 94710-2720
(510) 540-3923

4.2.2 Fact Sheets

DTSC and Gaylord prepared and distributed an introductory fact sheet on June 11, 2004 to provide a general overview of the Gaylord properties history. The fact sheet was distributed to all entities on the mailing list. Subsequent fact sheets will be prepared, as needed. For example, a fact sheet will be prepared to announce the availability of cleanup plans.

4.2.3 Information Repository

DTSC and Gaylord have established a repository of information at the Antioch Public Library, where the public can access material about the Gaylord properties, clean-up activities, and the general reuse process. The repository will be updated as work at the Gaylord properties progresses. The following provides the address and hours of operation for the library:

City of Antioch
Public Library
501 18th Street
Antioch, CA 94531
(925) 757-9224
Hours:
Mon.-Wed. 10:00 a.m.-8:00 p.m.
Thurs. 12 p.m.-8 p.m.
Sat. 10:00 a.m.-6:00 p.m.
Closed Sun.

The library repository contains all technical plans and reports as well as fact sheets, public notices, this PPP, and other information as appropriate. In addition to the library repository, the complete project file is available for review at DTSC's regional office in Berkeley. Please call to make an appointment (510-540-3800) prior to visiting this location:

California Environmental Protection Agency

Department of Toxic Substances Control, File Room
700 Heinz Avenue, Suite 200
Berkeley, CA 94710
Hours: 8:00 a.m.-5:00 p.m. and Fri. 12 p.m.-6 p.m.
Also, visit www.dtsc.ca.gov for information

4.2.4 Public Notices

Community interviewees suggested the following news sources for public notices and other information about the project:

- Contra Costa Times (and Daily Ledger insert)
- Antioch Press

In addition, one local official suggested the Oakley Press since the Gaylord properties are close to Oakley. The Antioch Press does not accept legal notices. Additionally, the majority of the community members interviewed indicated that the Contra Costa Times was their main news source. Therefore, public notices will be advertised in the Contra Costa Times.

4.2.5 Public Meetings/Briefings and Locations

DTSC will hold public meetings at appropriate project milestones, such as the release of cleanup plans. Public meetings will be held in a convenient location for the community, as described below. Public meetings will be announced in fact sheets and notices in local newspapers, as described above. Other community briefings may be conducted, if necessary.

Several interviewees suggested the Antioch Senior Center as an appropriate location to conduct public meetings:

415 W 2nd Street
Antioch, CA 94509
Phone: (925) 778-1158

Some other venues were suggested, but have limited availability (e.g., Nick Rodriguez Community Center is only available weekends). An alternate meeting location is the Police Community Room:

300 L Street
Antioch, CA 94509
Phone: (925) 778-3911

4.2.6 Mailing List

A mailing list with more than 450 entries has been prepared. The mailing list includes property owners, occupants, and businesses within an approximate one-quarter mile radius of the boundaries; local schools, churches, and special interest groups; public agencies; environmental groups; and local, state, and federal elected officials. Information for the mailing list was obtained through City of Antioch business/city department directories, internet research, vicinity tour, input from community members interviewed (all were specifically asked to recommend others for DTSC to contact), suggestions from

the DTSC, and property information from the county assessor's office. The mailing list will be updated regularly, including replacing the property owner's name with "current resident" for returned mailed to ensure that the individual(s) living in a particular residence receive the information.

4.2.7 Responding to Public Comments

Fact sheets issued to the public will include comment cards. In addition, public comments may be received through phone calls, emails, and at public meeting. Fact sheets will include the phone number of the DTSC contacts to call with questions or comments. A response to comments document (called a responsiveness summary) will be prepared to address comments received during public review periods for documents such as cleanup plans. The summary will explain how the comments are incorporated into the document or why they could not be addressed.

4.2.8 Community Surveys and Interviews

DTSC and Gaylord prepared and distributed a Community Survey Request along with the introductory fact sheet on June 11, 2004 to obtain initial feedback from the local community. A total of 10% of the individuals receiving the fact sheet completed and returned surveys. A copy of the survey results is included in Appendix A.

As noted in Section 3, DTSC interviewed a cross section of community members to gather input in preparing this PPP and shaping appropriate outreach activities. DTSC summarized each interview for review and consideration in preparing future materials.

4.3 Schedule of Public Participation Activities

Gaylord has prepared a three-year plan for clean-up and reuse of the properties, during which public participation will be ongoing. Below is a schedule for specific public involvement activities scheduled in 2004. Technical activities planned for 2004 include soil and groundwater investigations, clean-up of one area within the East Mill Site, as well as various demolition and decommissioning activities at the East and West Mill properties.

Public Participation Activity	**Schedule**
Develop mailing list	March 2004
Prepare and issue Community Survey	June 2004
Conduct community interviews	August 2004
Public Participation Plan completed	October 2004
Issue Fact Sheet for Draft Remedial Action Plan (RAP) for Interim Action at East Mill (Black Liquor Pond)[1]	September 2004
Conduct community meeting for Black Liquor Pond RAP[1]	September 2004
Respond to comments on Draft Remedial Action Plan (RAP) for Interim Action at East Mill (Black Liquor Pond)[1]	October 2004
Prepare Fact Sheet: public notice for all RAPs/RAWs	Prior to start of public comment period.
Conduct community meeting for all Draft RAPs	During public comment period.

Respond to public inquiries; maintain phone log and library repository; and meet with interested parties	Ongoing
Additional fact sheets, public meetings, and response to comments	As required or warranted by project milestones

[1] The Interim Action at the Black Liquor Pond at the East Mill is the first RAP to be issued.

APPENDIXES

Appendix A
Community Survey Results

The following lists the questions from the Community Surveys and summarizes the answers to those survey questions. Of the more than 400 surveys sent out to the local community, approximately 10% were returned with responses. The percentage of individuals answering giving a certain answer are presented below in parentheses.

1. **How long have you lived in this area?**

   0-5 years (12.5%) 6-12 years (5%) 13-20 years (12.5%) 21 years or more (70%)

2. **Please indicate your level of interest in the Gaylord properties.**

   No interest (5%) Low interest (5%) Medium interest (32.5%) High interest (52.5%)

   and 5% did not answer.

3. **Do you currently attend public meetings of interest to you?**

   Never (27.5%) Sometimes (55%) Always (12.5%

   and 5% did not answer.

4. **What is the best way to provide you with information about Gaylord properties?**

   Fact sheets mailed to you (87.5%)
   Public meetings (15%)
   Email/Web site (25%)
   Newspaper/TV/Radio (20%)
   Please list favorite newspaper, TV, and radio station:
   - Newspapers: Contra Costa Times, San Francisco Chronicle
   - TV: KCBS, KTVU
   - Radio: KGO

5. **What language would you prefer us to use for future mailings and materials?**

   English (97.5%) Spanish (0%) Other: English OR Spanish (2.5%)

6. **We sometimes need to talk with community members to learn more. Would you be willing to talk with us? If so, please provide your name and telephone number or email address:**

   65% of respondents agreed to be contacted; 17 of those provided email addresses.

7. **Please give us any other concerns or comments you have about Gaylord properties:**

   57.5% of respondents provided additional comments:
   - My brother and I have personal knowledge of the dumping of ink and often chemicals on the ground.

- Very interested in recreational and agricultural tracts as they are directly linked to my backyard. Concerned about activities past and current lack of upkeep. Often fires erupt in dry grass..
- I also have property at 900 Apollo Ct. Described Recreation Tract is very close to us. So I am interested in what is found out about that parcel.
- We are working now to come up with a grading and operational plan for your approval that will allow us to develop the land we hope to purchase immediately from Gaylord/Temple-Inland.
- Two things we are most concerned about: (1) Future use of the property(s) (2) Groundwater contamination (we have wells that pull water from the same underground aquifer.)
- I lived in Antioch on Minaker Dr. from 1965 until 1980. My husband and I were employed by Crown Zellerbach from 1957/1961 to 1980. We still own the house at 917 Minaker Dr and are considering moving back there in the near future. (Crown Zellerbach was purchased by Gaylord Corp.)
- The property on the water need to be turned into a recreation area. There is a great need for river access, boating, fishing, and wildlife.
- Is the water safe to drink in this area? Or use? Is there risks of toxics underground? Are there explosives gases underground?
- I bought my house in 2001 and this is the first time I've heard about Gaylord Container Corporation. My interest is medium/high due to the fact there may be toxic substances involved. You may call me but because this is the first time I've heard about it I don't think you will learn more information from me.
- Concerns - Toxic substances "effecting health." Also what effect on surrounding property values.
- My concern is the Almond Orchard being sold and annexed into city property which will force us into the City of Antioch.
- I would like to be kept informed of changes or improvements to the Almond Orchard site which is behind the cemetery.
- Toxic cleanup and plans for the future
- I know nothing about Gaylord Properties, I believe they were a paper mill off Wilbur Ave., til' they left California. Plus a large drug screening one year, which most people opposed.
- What plans are on the drawing board for the future of the property?
- I would like to see commercial development and/or civic uses - but no residential
- If the contaminants left behind were cleaned up? i.e., pulp, Black Liquor, ink from pulper. caustic, etc.
- Traffic on Wilbur Avenue.
- The west side should be completely torn down and made level.
- My concern is that is causes no cancer or hazardous waste problems. It would be nice to have that area cleaned up.
- Ground under East Mill site, Recreational and Agricultural Tracts.
- What's going on over there?
- Future plans.

Appendix B
Community Interview Questions

History/Involvement

1. How long have you lived or worked in the Antioch area?

2. Before meeting with us, how familiar were you with the Gaylord Site and former paper mill?

3. Have you ever received information about this site? From where?

4. Have you been actively involved with this Site or the former mill in any way?

5. Rate your level of interest in the site and proposed remediation activities.

6. Have you or your family members ever participated in activities located at the Antioch Youth Sports Complex?

Issues/Concerns

7. Do you have any particular issues, concerns, or interests about this Site related to remediation, site reuse, or any other topic?

8. Are you aware of any other environmental clean ups that are going on in your area?

9. Do you, or does your organization, have a vision for what should happen with the Site?

Media

10. Which newspapers, television stations, radio stations, or other sources to you generally use to receive news?

Communication

11. What is the most effective method(s) to provide you (or your organization) information about the Site remediation and development process?

12. What languages are spokes in your home/neighborhood? When you do mailings to the community, what languages do you use in print?

13. Can you suggest a convenient location for community meetings?

14. Are their other individuals, groups, or organizations you recommend we contact?

Appendix C
Summary of Information Obtained from Community Interviews

A total of 19 individuals (listed in Appendix D) were interviewed in person between August 2 and 6, 2004. Some follow-up telephone interviews were conducted the week of August 9, 2004. These interviews were conducted to obtain information about the community characteristics, concerns and issues, and effective methods of public outreach. Questions used in the interviews are provided in Appendix B. The following paragraphs summarize the information obtained during these community interviews. A complete listing of the interview responses is also provided.

History and Involvement

Of those interviewed, all had lived and/or worked in the Antioch area for 13 years or more with 6 individuals having lived in the area for 25 years or more. The majority of those interviewed were aware of the former paper mill. Many stated that they had noticed the odors from the mill in the past. Only one individual had not been aware of the Site previous to the interview. Six individuals indicated they had received and read the initial Fact Sheet.

Three individuals had worked for or knew someone who had worked for one of the previous owner, Fibreboard. Two individuals were aware of the cleanup and demolition activities going on at the Site. Six individuals were familiar with the Antioch Youth Sports Complex and had either participated in sports activities, had family members that participated in activities, or had attended sporting events there as a spectator.

Nine individuals expressed interest in the site cleanup process. Two individuals were more specifically interested in the Antioch Youth Sports Complex properties and two were specifically interested in the Almond Orchard.

Issues and Concerns

Several individuals expressed interest in the redevelopment of the Site and how it related to the City of Antioch's annexation plan. Suggested uses for the properties ranged from providing activities for local youth to parkland to houses or shopping to continued industrial use. One individual discussed cleaning up to the specific use. One individual mentioned that they would prefer a future use that does not result in excessive noise.

One individual was concerned with anything that might interfere with traffic, bus schedules, or anything else that could affect local schools. One individual was concerned about water supply wells and access to canal water and right-of-ways. One individual was concerned about how the cleanup would be paid for, while three individuals were interested in the outcome of the Antioch Youth Sports Complex project. One individual mentioned that the community appreciates Gaylord giving back to the community (in reference to the Sports Complex).

One individual was concerned about groundwater contamination and monitoring of the groundwater supply. Two individuals inquired about the cleanup process, and one emphasized that the process should be open and include community involvement. One individual indicated confidence in the DTSC's ability to manage the cleanup process. Five individuals were aware of other cleanups in the area (DuPont, PG&E, Roger's Point).

Media

The newspapers that interviewees mentioned, in order of frequency are: Contra Costa Times, Antioch Daily Ledger (insert in Contra Costa Times), Antioch Press, and San Francisco Chronicle. One individual suggested using the Oakley Press since Oakley keeps Antioch informed for their cleanup projects. Television news stations mentioned were Channels 2 (Fox-KTVU), 4 (KRON), 5 (CBS-KPIX), and 7 (ABC-KGO).

Communication

The community members largely indicated that fact sheets were the best way to keep them informed about the cleanup process. Three individuals were concerned that renters would not be informed because they would not receive fact sheets. Four individuals suggested email communication, three suggested newspapers, and 3 suggested public meetings. Convenient locations mentioned by most interviewees for public meetings include the Senior Citizens Center, the Antioch City Council Chambers, and the Nick Rodriguez Community Center. Other suggested locations included elementary schools, the Historical Society, a local church, the Comfort Inn, the library (room is small), or the downtown theatre.

The majority of interviewees indicated that English is the most commonly spoken language in the local community. Six individuals mentioned that there are some Spanish-speaking community members, although mostly around the downtown area according to one individual. At the hospital, they see 28% Spanish-speaking people (from the entire surrounding area) and the school district as a whole has 23% Spanish-speaking students.

Other individuals that were suggested as contacts in the local community include:

Bill Gegg, Assistant to City Manager
Dave Moore, Delta Youth Soccer League
Don Peckim, business owner
Nany Cloninger
Delta Baseball, Mike Stefani
Greg Wood, Antioch West League
Richard Loewke, Consultant for Annexation (in Alamo)
Debra Hobin, Lerner Center Charter School
Mike Oliver, City Manager, City of Oakley

Additionally, one individual suggested that a presentation be given at a City Council meeting.

Compiled Interview Results

1. How long have you lived or worked in the Antioch area?

50+ years
18 years
13 years
36 years
25 years
35 years
14 years
74 years
28 years
17 years
22 years
15 years

2. Before meeting with us, how familiar were you with the Gaylord Site and former paper mill?

a) Aware of the paper industry.
b) The site has been there years, people complained about the smell.
c) Familiar with the Site for 10 years, especially the Recreational Tract.
d) One of their regulated facilities did some underground storage materials. Aware of odors.
e) Very familiar with the site but not the cleanup. Knows we'll do what we are supposed to do.
f) He was aware of the paper mill industry. He was a contrpller on one the windmills in the area.
g) Not at all, know it's there and that it's winding down, *deep water access.* Pipelines go out to Gaylord and through the communities. Do they want the pipelines? Miles of lines heading south. The last line of the address label was left off on city officials.
h) Received a fact sheet. BBL called about the historical aspects of the site and to talk about the Delta area.
i) Thought it was a ball field
j) Very familiar, a friend worked there, worked at the former L. street Fibreboard factory. When Gaylord closed there was tremendous odor. He worked for Crown Zellerbach north of the Almond Orchard area. Knows people that worked there.
k) Somewhat, he was an employee at the credit union across the street from Gaylord and he knew some of the former employees.

3. Have you ever received information about this site? From where?

a) Received a fact sheet, BBL called to ask about the Historical aspects of the community. They talked about the Delta.
b) This the first time the City officials heard about the project. The last line of the address was omitted on the survey. We gave them written materials and the consultant filled them in on the cleanup process.
c) No, this was the associate pastor. The pastor of the church who received the survey, could not make the meeting, and he filled in for the community interview. We gave him written materials and the consultant and project manager filled him in on the project and cleanup.
d) He received the survey and responded.
e) He received the survey and responded.
f) He received a survey and responded.

g) Said they probably received a report of some kind at the Dept. of Hazardous Materials. We gave him more written materials and project manager filled him in on cleanup process.
h) Yes, the survey and they responded.
i) They received a survey and responded. Their neighbor was concerned that some of the addresses might be wrong for individuals who rent property. It was explained to them by PPS that the mailing list is revised after the first mailing and includes renters.
j) No. We gave them written information and the Consultant explained the clean up process.
k) No. He was put on our mailing list and the Consultant explained the clean up project. We gave him written information.

4. Have you been actively involved with this Site or the former mill in any way?

a) Interviewee was the employer service representative for the Employment Development Department and liaison to employers in the community.
b) Interviewee was not familiar with the site cleanup process. Consultant explained the project and written information was left with the three individuals participating.
c) This person was only aware of the sports field. We gave him written information. His organization was already on the mailing list, but someone else received and responded to the survey.
d) This person was familiar with the people that worked at the site and received most of his information from them. He did receive a questionnaire.
e) Organization wants to buy the sports field property and is familiar with the cleanup process. Is keeping a close eye on the work that is being done.
f) This person is familiar with the properties and the paper industry. He was a controller for one of the windmills and also worked at the Fibreboard Plant.
g) This person was aware that there was Sierra Crete underneath the asphalt at the Youth Sports Complex.
h) This person worked at one of the other Gaylord sites and was aware of the cleanup that's going on.
i) This person indicated that Gaylord paid into the 18th Street Study (2001) on how to utilize the land around this area. This family was very actively involved in the process. Four homes in their neighborhood were included in the plan. They also had an annexation plan that the city of Antioch has been looking at since 2003.
j) He owned the construction company that maintained the credit union building across the street.
k) No

5. Rate your level of interest in the site and proposed remediation activities?

a) High interest – knows what was produced there and the bi-products. Concerned about ground water, smell terrible from the cooking pulp when the site was open.
b) As long as it is not affecting the city of Antioch directly, they wouldn't be concerned. There are pipelines that go out to Gaylord and through the communities. What does this mean to the community? Consultant explained what they knew in relation to Gaylord Container Properties.
c) Not interested in the cleanup process.
d) What can it do to benefit his business? He would like to be included in the annexation and cleanup information.
e) Interested in purchasing part of the land for the Antioch Sports Complex.
f) Interested in terms of purchasing land for the Sports Complex.
g) Is interested from the geological point of view. He's seeing our mailings as they are sent out.
h) Just the Almond Orchard next door and the squirrel population that could be a problem if the trees are cut down.

i) They are very interested. Seem to be active in all projects going on in the area. They have their own well as do all 80-100 other home owners that are not incorporated to city water. What will happen to the wells? Who is monitoring the groundwater supply? Consultant and project manager answered their questions.
j) High. There is an elementary school in the vicinity (Kimball School), work in the community affects the students and their routine.
k) High because the City of Antioch is in the Supervisor's district. The county is always concerned about this kind of activity in one of the cities.

6. Have you or your family members ever participated in activities located at the Antioch Youth Sports Complex?

a) No
b) Yes, soccer
c) Yes, kids play sports there.
d) No
e) Yes, since 1994-95, coached, area is used heavily.
f) Yes, glad to see Gaylord working with the community to develop this area.
g) Only when he was doing sampling in the area.
h) No
i) As a spectator. In the paper making processing there was left over fiber and pulp. Mounds of residuals mixed with wood chips and sold to local nursery. Helped with that. There are 2 reports on file about soil contamination.
j) No
k) Yes, soccer

7. Do you have any particular issues, concerns, or interests about this Site related to remediation, site reuse, or any other topic?

a) Abandoned well on SW corner of 18th Street on Almond Orchard. Nine families paid Gaylord $3,000 to protect right of way to water in 1990s to go across their property with a pipeline. The water is used for irrigation only.
b) As long as there is a clean bill of health when it is completed. Requested a copy of all information sent to the City. Aware that annexation is under investigation. Would also like a copy of information about City properties.
c) There is a need in this area for a YMCA, Boys & Girls club or organization that has a gymnasium or indoor activities for the youth.
d) Who's going to pay for all of the cleanup? Consultants explained this to interviewee.
e) Dioxins are there. They must put a soil cap on the Athletic Complex. Need to know if anything else will need to be done after purchasing property.
f) Interested in the outcome of the Sports Complex.
g) Would like to see it cleaned up and redeveloped.
h) What's going to happed to the Almond Orchard. Don't want trucks and noise next door.
i) Concern that ball field might be changed. Community appreciates the way Gaylord gives back to the community.
j) Because of the students in the area, she must look at the distance from the elementary school. Anything that might interfere with traffic or the bus schedule would be a problem.
k) Important that the process is a community process and on policy. The site reuse should be a community process. What is Gaylord's responsibility? Who determines when the job is done? We explained that DTSC would certify the clean up when the project was completed.

8. Are you aware of any other environmental clean ups that are going on in your area?

a) Aware of the Dupont clean up in Oakley.
b) Roger's Point – the north side of Fulton on the other end of Wilbur
c) Asbestos abatement next door from the house on the property they purchased.
d) No – just know Gaylord has been cleaning up for several years.
e) Temple Inland cleanup.
f) Same as above
g) Concerned about the Almond Orchard
h) Not available for response
i) Are they still doing Dupont cleaning in Oakley? PG&E site on Oakley Rd. is doing some clean up.
j) No. Most of the clean ups he was aware of are finished.
k) PG&E clean up. Dupont clean up in Oakley. Clean up in Bay Point

9. Do you. Or does your organization, have a vision for what should happen to the Site?

a) Possible walkways for park. Clean industry to attract jobs and income.
b) Site cleaned up and used for industrial. Recreation area cleaned to that level. Annexation study is in the process – cost implications.
c) No
d) Antioch has a good plan for annexing and building along the water front.
e) Sports Complex, new property – new parking, grass & soccer, T-ball, etc. Some hedges and barriers. Adjoining 11 acres could be purchased as well for Sports Complex. Light industrial area.
f) Sports Complex ideas.
g) No
h) Would like to see houses or shopping, something that's not noisy.
i) Want to see Sports Complex remain. Develop riverfront area to shopping or condominiums.
j) No. It would be better for it to be used as opposed to vacant. Agricultural and a site for sports, maybe light industrial.
k) The supervisors and county will have a vision for the area.

10. Which newspapers, television stations, radio stations or other sources do you generally use to receive news?

a) Dish TV, Channel 5, 7, & 11. Antioch Daily Ledger, Antioch Press, American Heritage, Historical Gazette.
b) Contra Costa Times, Antioch Daily Ledger, Channel 7 news
c) Contra Costa Times, Network TV, Antioch Daily Ledger, Antioch Press
d) Channel 2, Antioch Daily Ledger, Contra Costa Times
e) Antioch Daily Ledger, Contra Costa Times, S.F. Chronicle, Channel 2 news, Antioch Press
f) Same as above
g) Contra Costa Times, S.F. Chronicle, Channel 7 News
h) Contra Costa Times, Channel 4 News
i) Contra Costa Times, Antioch Press (Alan Payton), Antioch Daily Ledger, Standard Network News
j) Contra Costa Times, Channel 7 News, Trade magazines, Internet research, email
k) Contra Costa Times, Daily Ledger, Oakley Press (thinks we should keep Oakley informed of clean ups since they keep Antioch informed of their clean ups)

11. What is the most effective method(s) to provide you (or your organization) information about the Site remediation and development process?

a) Local Access TV Channel, S.F. Chronicle, Public Forum
b) Email
c) Fact sheet, newspaper
d) Mail
e) Fact sheets, Antioch Youth Sports Board Meetings
f) Same as above
g) Fact sheets
h) Mail
i) Fact sheets, email
j) Fact sheets, email (suggests we use email to get the word out)
k) Fact sheets, email

12. What languages are spokes in your home/neighborhood? When you do mailings to the community, what languages do you use in print?

a) English, some Spanish in community.
b) English
c) English, some Spanish. They do all of their pamphlets in English.
d) English, Spanish (maybe 1% around the site)
e) All English – most read and understand English. No publications are translated from their office.
f) Same as above
g) Not available for response
h) English
i) English, Spanish (works at hospital and they see 28% Spanish speaking people.)
j) English, Spanish (District has 23% Spanish speaking students)
k) English, Spanish (mostly around the downtown area.

13. Can you suggest a convenient location for community meetings?

a) The Historical Society, Senior Citizen Center, City Council Chambers
b) Schools, Kimball Elementary is in the area
c) At the church near the site.
d) The Comfort Inn, City Council Chambers, one of the schools
e) Theatre downtown, school locations, library, Nick Rodriguez Community Center
f) Same as above
g) Elementary schools, Antioch City Council Chamber
h) Senior Center, Nick Rodriguez Center
i) City Council Chambers
j) School sites, Beede Auditorium at the H.S., Senior Citizens Center
k) Auditorium, Nick Rodriguez, Senior Center, Community Center, Pruitt Water Park

14. Are their other individuals, groups or organizations you recommend we contact?

Bill Gegg, Assistant to City Manager (799-7041)
A presentation at the City Council Meeting was suggested (2nd & 3rd Tuesday)
Dave Moore, Delta Youth Soccer League (382-1440)
Don Peckim, owns business next to Vineyard on 18th St.

Nany Cloninger (799-3482)
Delta Baseball, Mike Stefani (354-3345)
Delta Youth Soccer League 439-4396
Greg Wood, Antioch West League (565-4321)
Richard Loewke, Consultant for Annexation (in Alamo)
Debra Hobin, Lerner Center Charter School, 755-1752
City Council (fact sheets and give presentation)
Mike Oliver, City Manager, City of Oakley

Appendix D
List of Interviewees

Community Members

Shawna Eisenmann	Community Member
Phyllis Hiebert	Historical Society/Community Member
Bruce Hiebert	Historical Society/Community Member
Bob Monfort	Community Member
Nancy Monfort	Community Member, Hospital Chaplain
Thomas Stucker	Community Member
Delores Stucker	Community Member

Business Owners/Organizations

Clay Baskin	President, Antioch Youth Sports Complex
Bill Chapman	Treasurer, Antioch Youth Sports Complex
Murray Sexton	Business Owner, Bridgehead Cafe
Steve Miner	Assoc. Pastor, Cornerstone Christian School

Local Agencies and Officials

Paul Andrews	Hazardous Materials Specialist Contra Costa County Hazardous Materials Program
Victor Carniglia	Deputy Director of Community Development, Antioch
Tim Forrester	Director of Facilities Antioch Unified School District
Bill Galston	City Attorney, Antioch
Sherri Gamba	Chief Business Official Antioch Unified School District
Don Griebling	Chief Building Official, Antioch
Harold Jirousky	Assistant Engineer Antioch Public Works Department

Elected Officials

Vincent Manuel	Chief of Staff Contra Costa County District Supervisor District 5

Megan Salcido

From: ccchazmat <ccchazmat@cchealth.org>
Sent: Monday, December 16, 2019 12:47 PM
To: Megan Salcido; ccchazmat@hsd.cccounty.us
Subject: Re: Request for Records
Attachments: Public Records Request Form FILLABLE Rev April 2018.pdf; Site #738072 2540 Wilbur Ave.pdf; Site # 775391 2600 Wilbur Ave.pdf

Good Afternoon:

Please find the attached requested records for 2540 & 2600 Wilbur Ave., Antioch.

Our records go back to 1986, anything prior to this would be the jurisdiction of the local fire department.

FYI: CalEPA has a new website that combines data about environmentally regulated sites and facilities in California into a single, searchable database and interactive map. By combining data from a variety of state and federal databases, the portal provides an overview of regulated activities across the spectrum of environmental programs for any given location in California.

The link to the CalEPA Regulated Site Portal is: https://siteportal.calepa.ca.gov/nsite/

Kind Regards,

Alex McMullen, Clerical Supervisor

Contra Costa Health Services
Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100
Martinez, CA 94553

(925) 335-3200 Phone
(925) 646-2073 Fax
ccchazmat@cchealth.org

From: Megan Salcido <msalcido@aeiconsultants.com>
Sent: Monday, December 16, 2019 11:03 AM
To: ccchazmat@hsd.cccounty.us <ccchazmat@hsd.cccounty.us>
Subject: [EXTERNAL] Request for Records

Hello,

Please see my attached request and let me know once it has been processed.
Thanks,

Megan Salcido

Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA
HEALTH SERVICES
HAZARDOUS MATERIALS PROGRAMS
4585 Pacheco Boulevard, Suite 100
Martinez, CA 94553-2233
Ph (925) 335-3200
Fax (925) 646-2073

December 22, 2015

JT Tours
1796 Anastasia Dr
Brentwood, CA 94513
Attn: Juan Talavera

Subject: Hazardous Materials Regulated Business
EPA ID # CAL000413033

Dear Business Owner or Operator,

Your business has been identified as a regulated, Certified Unified Program Agency (CUPA) facility.

Businesses that generate any amount of hazardous waste or handle hazardous materials in program threshold quantities are required to obtain a *Hazardous Materials Unified Program Permit* from the Contra Costa Health Services Hazardous Materials Program.

Program threshold quantities are defined as having a hazardous material on site at any time in quantities that are equal to, or greater than, 55 gallons for materials that are liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (California Health & Safety Code §25507).

As a regulated business, you are required to create a profile and submit your business' hazardous materials–related information through the California Environmental Reporting System (CERS).

CERS is an online database established by the California Environmental Protection Agency to electronically collect hazardous materials-related data as mandated by California law. The CERS website address is http://cers.calepa.ca.gov/.

For additional information visit our website at http://cchealth.org/hazmat/ or contact our office for assistance. If you have any questions or believe you have received this notice in error, please contact our office at (925) 335-3200 or by email at cchazmat@hsd.cccounty.us.

Regards,

Randall L. Sawyer
Chief Officer, Hazardous Materials Programs

Matthew Rodriquez
Secretary for
Environmental Protection

Department of Toxic Substances Control

Barbara A. Lee, Director
1001 I Street
P.O. Box 806
Sacramento, California 95812-0806

Edmund G. Brown Jr.
Governor

EPA ID PROFILE

ID Number: CAL000412210 **Name :** JUAN TALVERA DBA JT TOURS

Status: ACTIVE **Inactive Date:** **Record Entered:** 11/10/2015 **Last Updated:** 11/10/2015

County: CONTRA COSTA **NAICS:** 48551 **SIC:** 4141

	Name	Address	City	State	Zip Code	Phone
Location	JUAN TALVERA DBA JT TOURS	2600 WILBUR AVE	ANTIOCH	CA	94509	
Mailing		PO BOX 709	OAKLEY	CA	94561	
Owner	JUAN TALAVERA	1796 ANASTASIA DR	BRENTWOOD	CA	945136596	9255507174
Operator/ Contact	JUAN TALAVERA	1796 ANASTASIA DR	BRENTWOOD	CA	945136596	9255507174

Based ONLY upon ID Number **CAL000412210**

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
NO	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

WILLIAM B. WALKER M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES
HAZARDOUS MATERIALS PROGRAMS
4585 Pacheco Boulevard, Suite 100
Martinez, CA 94553-2233
Ph (925) 335-3200
Fax (925) 646-2073

CONTRA COSTA
HEALTH SERVICES

SECOND NOTICE

March 31, 2016

JT Tours
1796 Anastasia Dr
Brentwood, CA 94513
Attn: Juan Talavera

Subject: Hazardous Materials Regulated Business
EPA ID # CAL000412210

Dear Business Owner or Operator,

Your business has been identified as a regulated, Certified Unified Program Agency (CUPA) facility.

Businesses that generate any amount of hazardous waste or handle hazardous materials in program threshold quantities are required to obtain a *Hazardous Materials Unified Program Permit* from the Contra Costa Health Services Hazardous Materials Program.

Program threshold quantities are defined as having a hazardous material on site at any time in quantities that are equal to, or greater than, 55 gallons for materials that are liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (California Health & Safety Code §25507).

As a regulated business, you are required to create a profile and submit your business' hazardous materials–related information through the California Environmental Reporting System (CERS).

CERS is an online database established by the California Environmental Protection Agency to electronically collect hazardous materials-related data as mandated by California law. The CERS website address is http://cers.calepa.ca.gov/.

For additional information visit our website at http://cchealth.org/hazmat/ or contact our office for assistance. If you have any questions or believe you have received this notice in error, please contact our office at (925) 335-3200 or by email at cchazmat@hsd.cccounty.us.

Regards,

Randall L. Sawyer
Chief Officer, Hazardous Materials Programs

Matthew Rodriquez
Secretary for
Environmental Protection

Department of Toxic Substances Control

Barbara A. Lee, Director
1001 I Street
P.O. Box 806
Sacramento, California 95812-0806

Edmund G. Brown Jr.
Governor

EPA ID PROFILE

ID Number: CAL000412210 **Name :** JUAN TALVERA DBA JT TOURS

Status: ACTIVE **Inactive Date:** **Record Entered:** 11/10/2015 **Last Updated:** 11/10/2015

County: CONTRA COSTA **NAICS:** 46551 **SIC:** 4141

	Name	Address	City	State	Zip Code	Phone
Location	JUAN TALVERA DBA JT TOURS	2600 WILBUR AVE	ANTIOCH	CA	94509	
Mailing		PO BOX 709	OAKLEY	CA	94561	
Owner	JUAN TALAVERA	1796 ANASTASIA DR	BRENTWOOD	CA	945136596	9255507174
Operator/ Contact	JUAN TALAVERA	1796 ANASTASIA DR	BRENTWOOD	CA	945136596	9255507174

Based ONLY upon ID Number **CAL000412210**

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
NO	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

CONTRA COSTA
HEALTH SERVICES

RECEIVED
FEB 02 2017
Contra Costa Health
Hazardous Materials

2017
HAZARDOUS WASTE GENERATOR REPORTING FORM

775391

FACILITY NAME: JT TOURS **CUPA FACILITY ID:** (New)

CERS ID: 10725403 **EPA ID:** CAL000413033

This form must be submitted if your facility produces hazardous waste. You must report **ANY** amount of hazardous waste disposed of from your facility in 2016. Disposal includes hazardous waste picked up by a licensed transporter or taken to a certified collection location.

If your facility is in the Hazardous Waste Generator Program, but no hazardous waste was disposed of in 2016, this form is still required.

Determine the amount of hazardous waste your business disposed of during the 2016 calendar year.

Total Tonnage of Hazardous Waste Disposed During 2016 (calculation guide on back)

1.2 Tons

ENTERED

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: [signature] **Date:** 2/2/17

Print Name: JUAN TALAVERA **Phone:** (925) 550-7174

INSTRUCTIONS FOR COMPLETING THIS FORM ON BACK

NOTE: COMPLETION OF THIS FORM DOES NOT FULFILL YOUR REPORTING REQUIREMENT FOR 2017. YOU MUST ALSO SUBMIT ONLINE IN THE CERS WEBSITE: http://cers.calepa.ca.gov

The Hazardous Waste Generator Reporting Form is due to Contra Costa Health Services Hazardous Materials Programs on or before **March 1, 2017**. Facilities may be subject to a **50% late fee** if the Hazardous Waste Generator Reporting Form is submitted or postmarked after **March 1, 2017**.

New. Add to database, HWG only 775391

California Environmental Reporting System (CERS) **Business Owner Operator**

Facility/Site

JT Tours
2600 Wilbur
Antioch, CA 94509

CERS ID
10725403

Submittal Status

Submitted on 2/2/2017 by *Lydia Talavera* of JT Tours (Antioch, CA)
Comments by submitter: Started generating Hazardous waste in 2016.
EPA ID is currently inactive, but will reactivate.
Submittal was *Accepted*; Processed on 2/9/2017 by *Alexandra McMullen* for Contra Costa County Health Services Department

Identification

JUAN TALAVERA

Operator Phone	Business Phone	Business Fax	Beginning Date	Ending Date	
(925) 550-7174	(925) 679-8244	(925) 679-8513	2/2/2017	2/1/2018	
			Dun & Bradstreet	SIC Code	Primary NAICS

Facility/Site Mailing Address

343 EGRET PL
PITTSBURG, CA 94565

Primary Emergency Contact

JUAN TALAVERA
Title
OWNER

Business Phone	24-Hour Phone	Pager Number
(925) 679-8244	(925) 550-7174	

Owner

JUAN & LYDIA TALAVERA
(925) 679-8244
343 EGRET PL
PITTSBURG, CA 94565

Secondary Emergency Contact

LYDIA TALAVERA
Title
OWNER

Business Phone	24-Hour Phone	Pager Number
(925) 679-8244	(925) 642-3803	

Billing Contact

LYDIA TALAVERA
(925) 679-8244 JTTOURS555@YAHOO.COM
343 EGRET PL
PITTSBURG, CA 94565

Environmental Contact

LYDIA TALAVERA
(925) 679-8244 JTTOURS555@YAHOO.COM
343 EGRET PL
PITTSBURG, CA 94565

Name of Signer	Signer Title	Document Preparer
Lydia Talavera	OWNER	Lydia Talavera

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

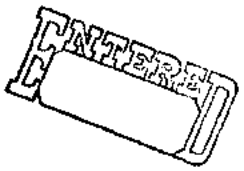
Phone

Mailing Address

Assessor Parcel Number (APN)

Number of Employees
4

Facility ID



Printed on 2/9/2017 4:36 PM

California Environmental Reporting System (CERS) — Business Activities

Site Identification

JT Tours
2600 Wilbur
Antioch, CA 94509
County
Contra Costa

CERS ID
10725403
EPA ID Number
CAL000413033

Submittal Status

Submitted on 2/2/2017 by *Lydia Talavera* of JT Tours (Antioch, CA)
Comments by submitter: Started generating Hazardous waste in 2016.
EPA ID is currently inactive, but will reactivate.
Submittal was *Accepted*; Processed on 2/9/2017 by *Alexandra McMullen* for Contra Costa County Health Services Department

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	No

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	No

Hazardous Waste

Is your facility a Hazardous Waste Generator?	Yes
Does your facility treat hazardous waste on-site?	No
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	No
Does your facility consolidate hazardous waste generated at a remote site?	No
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	No
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	No
Is your facility a Household Hazardous Waste (HHW) Collection site?	No

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	No
Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	No
Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	No

Additional Information

No additional comments provided.

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat
CCCHAZMAT@HSD.CCCOUNTY.US

PERMIT NUMBER: 07-000-775391
CERS ID: 10725403
PERMIT TO OPERATE

Permit Valid 7/1/2017 thru 6/30/2018

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0038936
JT TOURS
2600 WILBUR AVE
ANTIOCH, CA 94509

OWNER OF RECORD:
JUAN T& LYDIA TALAVERA
343 EGRET PL
PITTSBURG, CA 94565

Regulated Program(s)
1 HWG: LESS THAN 5 TONS/YEAR
2 HMBP: 1K-10K LBS, 0-19 EMPLOYEES

Program Record #
PR0067892
PRLVUFZP1

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

LYDIA TALAVERA
343 EGRET PL
PITTSBURG, CA 94565

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

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REGULATED FACILITY:
ID # FA0038936
JT TOURS
2600 WILBUR AVE
ANTIOCH, CA 94509

Regulated Program(s)
1 HWG: LESS THAN 5 TONS/YEAR

OWNER OF RECORD:
JUAN T& LYDIA TALAVERA
343 EGRET PL
PITTSBURG, CA 94565

Program Record #
PR0067892

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THIS IS NOT AN INVOICE

LYDIA TALAVERA
343 EGRET PL
PITTSBURG, CA 94565

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services - Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100, Martinez, CA 94553
Telephone: (925)335-3200 Fax: (925)646-2073
WWW.CCHEALTH.ORG/HAZMAT
cchazmat@hsd.cccounty.us
RANDALL L. SAWYER, CHIEF ENVIRONMENTAL HEALTH AND HAZARDOUS MATERIALS OFFICER

HAZARDOUS WASTE INSPECTION/COMPLIANCE CHECKLIST

FACILITY NAME	SITE ID	INSPECTION DATE	EPA ID:
JT Tours	775391	12/7/17	CALOOOH130 33

INSPECTION TYPE	VIOLATION CLASSIFICATIONS:	RETURN TO COMPLIANCE (RTC):
Routine/Follow Up/Other	M= Minor Cl I = Major Cl II = Medium/Repeat Minor	D= Documented O= Observed

California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 10, §66001 et al California Health and Safety Code (HSC), Division 20, Chapter 6.5, §25100 et al Code of Federal Regulations (CFR) Title 40, Chapter 1, Parr 260 et al

Disposal Documents Reviewed for Year: 2017	HWG Report Form on File: Yes / No	Total Tonnage of All Hazardous Waste Generated: 1.1 T

Generator Status:

☐RCRA-LQG > 1,000 kg/month ☐CA-LQG > 1,000 kg/month ☐CA-SQG > 100 to < 1,000 kg/month ☒CA-CESQG < 100 kg/month ☐Episodic

Occurred On Date	Violation Code	Authority/Requirement	Violation Class	Violation Due	Violation Corrected	RTC
12/7/17	H203	22CCR 66262.34	M	Today	12/7/17	O
12/7/17	H614	22CCR 66262.34(a)	M	Today		

OBSERVATION: 2-55 gal drums used oil no haz waste labels
Failure to properly label hazardous waste "Used Oil" 2-55 gal
Violation 22 CCR 66262.34
Corrective Action Label all containers of Hazardous waste correctly
on site Labels provided
Observation - 2-55 gal drums used oil with no lids
Violation - 22 CCR 66263.34(a) Containers must be closed ~~unless~~ except when
adding or removing waste
Corrective Action → Provide containers ~~that~~ will close for waste oil

Total time for Review and Inspection:	☒ Notice to Comply	☐ Notice of Violation	☐ No Violations Observed
Facility Rep Initials:	CC HazMat Initials	Date 12/7/17	

CONTRA COSTA HEALTH SERVICES

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ccchazmat@hsd.cccounty.us
RANDALL L. SAWYER, CHIEF ENVIRONMENTAL HEALTH AND HAZARDOUS MATERIALS OFFICER

INSPECTION COVER SHEET

FACILITY NAME	FACILITY ADDRESS	INSPECTION DATE
ET Tours	2600 Wilbur Ave	12/7/17
CONTACT NAME	Antioch	SITE ID 175391
CONTACT PHONE	EPA ID CAC000413033	CERS ID 10725403

Program(s): (check all that apply)

X Hazardous Materials Business Plan (BP)	☐ Tiered Permitting (TP)
X Hazardous Waste Generator (HW)	☐ Green Business (GB)
☐ Underground Storage Tank (UST)	☐ Stormwater Program (SW)
☐ Aboveground Petroleum Storage Act (APSA)	☐ California Accidental Release Prevention Program

CUPA Permit Current: ☐ Yes ☐No

REPRESENTATIVES PRESENT:

Name	Title	Organization
Juan Talavera	Owner	

FACILITY DESCRIPTION/COMMENTS:

ISSUANCE OF NOTICES:
A **NOTICE TO COMPLY** or **NOTICE OF VIOLATION** is issued to identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC), the California Code of Regulations (CCR), Code of Federal Regulations (CFR), or Contra Costa County Code (CCC). The facility may be subject to reinspection at any time by Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) to ensure that observed violations cited on the Notices are corrected. Failure to correct violations within the scheduled period provided may result in CCHSHMP citing the facility for continuing or additional violations. Issuances of Notices do not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted. (See back)

CONSENT:
Consent includes inspecting hazardous material/waste handling areas, taking photographs, reviewing and copying documents, questioning personnel and sampling activities to determine compliance with applicable laws and regulations.

Facility Rep Consent to inspect given by	Facility Rep Signature	Date 12-7-17
CCHazMat Rep Adam Spivey	CC HazMat Rep Signature	Date 12/7/17

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services - Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100, Martinez, CA 94553
Telephone: (925)335-3200 Fax: (925)646-2073
WWW.CCHEALTH.ORG/HAZMAT
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RANDALL L. SAWYER, CHIEF ENVIRONMENTAL HEALTH AND HAZARDOUS MATERIALS OFFICER

HAZARDOUS MATERIALS BUSINESS PLAN INSPECTION/ COMPLIANCE CHECKLIST

FACILITY NAME	SITE ID	INSPECTION DATE
JT Tours	775391	12/7/17

INSPECTION TYPE	VIOLATION CLASSIFICATIONS:	RETURN TO COMPLIANCE (RTC):
Routine/Follow Up/Other	M= Minor Cl I = Major Cl II = Medium/Repeat Minor	D= Documented O= Observed

California Code of Regulations, Title 19, Division 2, Chapter 4, §2620 et al; Title 27, Div 1, Subdiv. 2, Chap. 1, Part II
California Health and Safety Code, Division 20, Chapter 6.95, §25404, §25500-25520

Occurred On Date	Violation Code	Authority/Requirement	Violation Class	Violation Due	Violation Corrected	RTC
12/7/17	H350	HSC 6.95 25507	M	30days		

OBSERVATION:

Facility is storing 110 gal of waste oil on site
Violation: Failure to establish business plan when storing a hazardous material above quantities.
Corrective Action: Log onto your CERS account and check the box for hazardous materials under "Business Activities" section. Then complete all required fields.

Total time for Review and Inspection:	X Notice to Comply	□ Notice of Violation	□ No Violations Observed
Facility Rep Initials	CC HazMat Initials	Date 12/7/17	

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Boulevard, Suite 100
Martinez, California
94553-2233
Ph (925) 335-3200
Fax (925) 646-2073

JT TOURS
JUAN T& LYDIA TALAVERA
343 EGRET PL
PITTSBURG, CA 94565

DATE OF NOTICE: January 02, 2018

CUPA FACILITY ID: 775391
CERS ID: 10725403

ENV. CONTACT: LYDIA TALAVERA

PERMIT RENEWAL NOTICE - ACTION REQUIRED BY MARCH 1, 2018

As a regulated business, JT TOURS is required to review and submit information regarding the Hazardous Materials Business Plan, Hazardous Waste Generator, Underground Storage Tanks, Aboveground Petroleum Storage Act, and/or California Accidental Release Prevention Programs annually. State Law requires your business to report this information electronically. This can be done in four easy steps.

STEP 1: LOG ON TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)

Go to http://cers.calepa.ca.gov/ and click on "Business Portal Sign In". You will need your CERS user name and password. Once signed in, click the green "Start/Edit Submittal" button.

STEP 2: REVIEW AND EDIT INFORMATION

Click the green "Start" button to the following submittal elements and review/edit all information:

☐ **FACILITY INFORMATION**

NOTE: You must submit the enclosed Hazardous Waste Generator Reporting Form

STEP 3: SUBMIT ALL APPLICABLE SUBMITTAL ELEMENTS

Once all applicable sections in Step 2 are labeled "Ready to Submit", click a green "Submit" button on any submittal element. On the next page, confirm that all applicable elements are checked and click the green "Submit Selected Elements" button.

STEP 4: ENSURE ALL SUBMITTAL ELEMENTS ARE ACCEPTED

You will receive an email from CERS when each submittal element is reviewed. Immediately address any submittal elements that are **NOT ACCEPTED** by following Steps 1-3 above to edit the submittal based on the "Comments By Regulator".

Assistance with submitting a complete CERS submittal may be obtained by one of the following options:

1. Visiting our website at: http://cchealth.org/hazmat/cers-instructions.php
2. Attend a CERS online training session (webinar) for guidance (see enclosure).

If you have any questions regarding the 2018 submittal in CERS, please contact us at (925) 335-3200.

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Boulevard, Suite 100
Martinez, California
94553-2233
Ph (925) 335-3200
Fax (925) 646-2073

2018
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY NAME: JT TOURS **CUPA FACILITY ID:** 775391

CERS ID: 10725403 **EPA ID:** CAL000413033

This form must be submitted if your facility produces hazardous waste. You must report **ANY** amount of hazardous waste disposed of from your facility in 2017. Disposal includes hazardous waste picked up by a licensed transporter or taken to a certified collection location.

If your facility is in the Hazardous Waste Generator Program, but no hazardous waste was disposed of in 2017, this form is still required.

Determine the amount of hazardous waste your business disposed of during the 2017 calendar year.

Total Tonnage of Hazardous Waste Disposed During 2017 (calculation guide on back)

_____ Tons

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: _____ **Date:** _____

Print Name: _____ **Phone:** _____

INSTRUCTIONS FOR COMPLETING THIS FORM ON BACK

NOTE: COMPLETION OF THIS FORM DOES NOT FULFILL YOUR REPORTING REQUIREMENT FOR 2018. YOU MUST ALSO SUBMIT ONLINE IN THE CERS WEBSITE: http://cers.calepa.ca.gov

The Hazardous Waste Generator Reporting Form is due to Contra Costa Health Services Hazardous Materials Programs on or before **March 1, 2018**. Facilities may be subject to a **50% late fee** if the Hazardous Waste Generator Reporting Form is submitted or postmarked after **March 1, 2018**.

Instructions for Completing and Submitting the Hazardous Waste Generator Reporting Form (Reporting Form)

Please read these instructions carefully before completing the Reporting Form. If you have questions regarding the Reporting Form, please contact Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) at (925) 335-3200.

Hazardous waste is defined as any waste that is listed or meets the criteria of toxicity, corrosivity, ignitability, or reactivity as defined by the California Code of Regulations, Title 22, Chapter 11.

Completing the Reporting Form

1. Determine the amount of hazardous waste disposed of by your facility during the 2017 calendar year. Each facility must complete a separate Reporting Form. Hazardous waste manifests, consolidated manifests, and/or receipts will provide you this information.

2. These guideline conversion factors may be used when calculating tonnage:

a) Number of gallons X 0.00417 tons / gallon = Number of tons
b) Number of cubic yards x 1.35 tons / cubic yard = Number of tons
c) Number of pounds / 2000 pounds = Number of tons

3. Enter the total tonnage of hazardous waste disposed of during the 2017 calendar year. If no hazardous waste was disposed in 2017, enter 0.

4. Fill in signature, print name, date, and phone number. If uploading to CERS (California Environmental Reporting System), a signature is not required.

Submitting Options

CERS: Upload pdf of the completed Reporting Form in CERS under 'Miscellaneous State-Required Documents' in the Facility Information submittal element. If there is a previously submitted Reporting Form, click on "Discard" to remove it before uploading the 2018 Reporting Form. Type in 'HWG Reporting Form' in the document title section. Click 'Save & Finish'.

FAX: You may fax the completed Reporting Form to (925) 646-2073.

EMAIL: You may email the completed Reporting Form to ccchazmat@hsd.cccounty.us

MAIL: You may mail the completed Reporting Form to:

Contra Costa Health Services Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100
Martinez CA 94553

Notes:

Businesses producing ANY amount of hazardous waste must submit the Hazardous Waste Generator Reporting Form.

An electronic version of the Reporting Form can be found at:
http://cchealth.org/hazmat/pdf/cers/Hazardous-Waste-Generator-Reporting-Form.pdf

Businesses that collect used oil from the public under the CalRecycle Program have special reporting rules. Please call CCHSHMP at (925) 335-3200 and speak with a Hazardous Materials Specialist for more information.

ILLIAM B. WALKER, M.D.
ALTH SERVICES DIRECTOR

NDALL L. SAWYER
EF ENVIRONMENTAL HEALTH AND
ARDOUS MATERIALS OFFICER

RECEIVED
FEB 22 2018
Contra Costa Health
Hazardous Materials

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS
4585 Pacheco Boulevard, Suite 100
Martinez, California
94553-2233
Ph (925) 335-3200
Fax (925) 646-2073

2018
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY NAME: JT TOURS **CUPA FACILITY ID:** 775391

CERS ID: 10725403 **EPA ID:** CAL000413033

This form must be submitted if your facility produces hazardous waste. You must report **ANY** amount of hazardous waste disposed of from your facility in 2017. Disposal includes hazardous waste picked up by a licensed transporter or taken to a certified collection location.

If your facility is in the Hazardous Waste Generator Program, but no hazardous waste was disposed of in 2017, this form is still required.

ENTERED

Determine the amount of hazardous waste your business disposed of during the 2017 calendar year.

Total Tonnage of Hazardous Waste Disposed During 2017 (calculation guide on back)

1.03 Tons

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: _____ **Date:** 2-22-18

Print Name: JUAN TALAVERA **Phone:** (925) 252-0202

INSTRUCTIONS FOR COMPLETING THIS FORM ON BACK

NOTE: COMPLETION OF THIS FORM DOES NOT FULFILL YOUR REPORTING REQUIREMENT FOR 2018. YOU MUST ALSO SUBMIT ONLINE IN THE CERS WEBSITE: http://cers.calepa.ca.gov

The Hazardous Waste Generator Reporting Form is due to Contra Costa Health Services Hazardous Materials Programs on or before **March 1, 2018**. Facilities may be subject to a **50% late fee** if the Hazardous Waste Generator Reporting Form is submitted or postmarked after **March 1, 2018**.

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat
CCCHAZMAT@HSD.CCCOUNTY.US

PERMIT NUMBER: 07-000-775391
CERS ID: 10725403
PERMIT TO OPERATE

Permit Valid 7/1/2018 thru 6/30/2019

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0038936
JT TOURS
2600 WILBUR AVE
ANTIOCH, CA 94509

OWNER OF RECORD:
JUAN T& LYDIA TALAVERA
343 EGRET PL
PITTSBURG, CA 94565

Regulated Program(s)
1 HWG: LESS THAN 5 TONS/YEAR
2 HMBP: 1K-10K LBS, 0-19 EMPLOYEES

Program Record #
PR0067892
PRLVUFZP1

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

LYDIA TALAVERA
343 EGRET PL
PITTSBURG, CA 94565

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat
CCCHAZMAT@CCHEALTH.ORG

PERMIT NUMBER: 07-000-775391
CERS ID: 10725403
PERMIT TO OPERATE

Permit Valid 7/1/2019 thru 6/30/2020

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0038936
JT TOURS
2600 WILBUR AVE
ANTIOCH, CA 94509

OWNER OF RECORD:
JUAN T& LYDIA TALAVERA
343 EGRET PL
PITTSBURG, CA 94565

Regulated Program(s)
1 HMBP: 1K-10K LBS, 0-19 EMPLOYEES
2 HWG: LESS THAN 5 TONS/YEAR

Program Record #
PRLVUFZP1
PR0067892

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

JT TOURS
LYDIA TALAVERA
343 EGRET PL
PITTSBURG, CA 94565

JT Tours Inspection - CERS 10725403

Michael J. Duncan

Wed 2019-10-30 8:06 AM

To: JTTOURS555@YAHOO.COM <JTTOURS555@YAHOO.COM>
Cc: ccchazmat <ccchazmat@cchealth.org>

Hello Lydia Talavera,

I am emailing you regarding scheduling an inspection of the for the JT Tours. JT Tours is due for Hazardous Materials Business Plan and Hazardous Waste inspections. Currently my schedule is free to do the inspection on 11/4/19, 11/12/19 (afternoon only), 11/14/19 (afternoon only), 11/18/19, and 11/21/19. These days/times are also being offered to other businesses, so they are on a first come first serve basis (I can and do inspection multiple facilities in a given day). If those days don't work let me know and I will see if I can move some things around on my side.

Thank you,
Michael Duncan
Hazardous Materials Specialist II
Contra Costa Health Services
Hazardous Materials Programs
4585 Pacheco Blvd, Suite 100
Martinez, CA 94553
Phone: 925-335-3207

Contra Costa Health Services - Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100, Martinez, CA 94553
Telephone: (925)335-3200 Fax: (925)646-2073
WWW.CCHEALTH.ORG/HAZMAT
cchazmat@hsd.cccounty.us
RANDALL L. SAWYER, CHIEF ENVIRONMENTAL HEALTH AND HAZARDOUS MATERIALS OFFICER

HAZARDOUS MATERIALS BUSINESS PLAN INSPECTION REPORT

California Health and Safety Code (HSC), Division 20, Chapter 6.95
California Code of Regulations (CCR), Title 19, Division 2, Chapter 4

FACILITY INFORMATION

BUSINESS NAME:	JT TOURS	**CUPA FACILITY ID:**	775391
BUSINESS ADDRESS:	2600 WILBUR AVE ANTIOCH, CA 94509	**CERS ID:**	10725403
		FACILITY ID:	FA0038936
BUSINESS PHONE:	(925)679-8244	**SENT TO:**	JTTOURS555@YAHOO.COM
BUSINESS OWNER:	JUAN T& LYDIA TALAVERA		
BUSINESS OPERATOR:	JUAN TALAVERA		

INSPECTION INFORMATION

DATE OF INSPECTION:	DECEMBER 05, 2019	**INSPECTOR:**	MICHAEL DUNCAN
INSPECTION TYPE:	ROUTINE - ONGOING	**TITLE:**	HAZARDOUS MATERIALS SPECIALIST II
PROGRAM:	HMBP: 1K-10K LBS, 0-19 EMPLOYEES	**CONTACT:**	(925)335-3207
SERIAL NUMBER:	DAWGFHLMJ		MICHAEL.DUNCAN@CCHEALTH.ORG

REPRESENTATIVES PRESENT

NAME	TITLE	ORGANIZATION
LYDIA TALAVERA	CO-OWNER	JT TOURS

GENERAL OBSERVATIONS

GENERAL OBSERVATIONS

ROUTINE HMBP INSPECTION OF A BUS TOUR COMPANY

REVIEWED CERS
TRAINING UP TO DATE
INVENTORY ACCURATELY REPRESENTS WHAT WAS SEEN ON SITE
ADEQUATE SITE MAP
ADEQUATE EMERGENCY RESPONSE PLAN

FACILITY IS CLOSING

PAPERWORK STORED AT HOME OFFICE, WENT TO HOME OFFICE TO MEET WITH CO-OWNER TO REVIEW PAPERWORK
434 EGRET DR PITTSBURG CA

CONSENT: VERBAL AND OR WRITTEN CONSENT INCLUDES INSPECTING HAZARDOUS MATERIAL/WASTE HANDLING AREAS, TAKING PHOTOGRAPHS, REVIEWING AND COPYING DOCUMENTS, QUESTIONING PERSONNEL AND SAMPLING ACTIVITIES TO DETERMINE COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS.

MICHAEL DUNCAN, HAZARDOUS MATERIALS SPECIALIST II

LYDIA TALAVERA, CO-OWNER

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services - Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100, Martinez, CA 94553
Telephone: (925)335-3200 Fax: (925)646-2073
WWW.CCHEALTH.ORG/HAZMAT
cchazmat@hsd.cccounty.us
RANDALL L. SAWYER, CHIEF ENVIRONMENTAL HEALTH AND HAZARDOUS MATERIALS OFFICER

HAZARDOUS WASTE GENERATOR INSPECTION REPORT

California Health and Safety Code (HSC), Division 20, Chapter 6.5
California Code of Regulations (CCR), Title 22, Division 4.5

FACILITY INFORMATION

BUSINESS NAME:	JT TOURS	**CUPA FACILITY ID:**	775391
BUSINESS ADDRESS:	2600 WILBUR AVE ANTIOCH, CA 94509	**CERS ID:**	10725403
		FACILITY ID:	FA0038936
BUSINESS PHONE:	(925)679-8244	**SENT TO:**	JTTOURS555@YAHOO.COM
BUSINESS OWNER:	JUAN T& LYDIA TALAVERA		
BUSINESS OPERATOR:	JUAN TALAVERA		

INSPECTION INFORMATION

DATE OF INSPECTION:	DECEMBER 05, 2019	**INSPECTOR:**	MICHAEL DUNCAN
INSPECTION TYPE:	ROUTINE - ONGOING	**TITLE:**	HAZARDOUS MATERIALS SPECIALIST II
PROGRAM:	HWG: LESS THAN 5 TONS/YEAR	**CONTACT:**	(925)335-3207
SERIAL NUMBER:	DAWOLOUJL		MICHAEL.DUNCAN@CCHEALTH.ORG

REPRESENTATIVES PRESENT

NAME	TITLE	ORGANIZATION
LYDIA TALAVERA	CO-OWNER	JT TOURS

GENERAL OBSERVATIONS

GENERAL OBSERVATIONS

ROUTINE SCHEDULED HWG INSPECTION OF A TOUR BUS COMPANY

REVIEWED CERS
REVIEWED MANIFESTS FOR LAST THREE YEARS

CONTAINERS NOT PROPERLY LABELED
CONTAINERS NOT STORED WITH LIDS ON THEM/SECURED (USED OIL FILTERS OVERFILLED)
OPEN TOP STEEL DRUM USED TO STORE USED OIL, CURRENTLY EMPTY

FACILITY IS CLOSING

NOTICE TO COMPLY

VIOLATION DESCRIPTION:	FAILURE TO MEET THE FOLLOWING CONTAINER MANAGEMENT REQUIREMENTS: (A) A CONTAINER HOLDING HAZARDOUS WASTE MUST ALWAYS BE CLOSED DURING STORAGE, EXCEPT WHEN IT IS NECESSARY TO ADD OR REMOVE WASTE. (B) A CONTAINER HOLDING HAZARDOUS WASTE MUST NOT BE OPENED, HANDLED, OR STORED IN A MANNER WHICH MAY RUPTURE THE CONTAINER OR CAUSE IT TO LEAK. 22 CCR 12 66262.34(D)(2); 40 CFR 1 262.34(D)(2), 265.173
VIOLATION DEGREE:	HM - MINOR
OBSERVATION:	USED OIL FILTER DRUM WAS OBSERVED OPEN AND OVERFILLED.
CORRECTIVE ACTION:	SUBMIT PHOTOS TO THE CUPA DEMONSTRATING THAT THE CONTAINER LISTED ABOVE HAS BEEN PROPERLY CLOSED. SUBMIT COPY OF MANIFEST OR PICTURE SHOWING THAT FILTERS HAVE BEEN PICKED UP.
CORRECT BY:	JANUARY 04, 2020
VIOLATION CODE:	H614

A **NOTICE TO COMPLY or NOTICE OF VIOLATION** IS ISSUED TO IDENTIFY CONDITIONS OBSERVED THIS DAY THAT ARE ALLEGED TO BE VIOLATIONS OF ONE OR MORE SECTIONS OF THE CALIFORNIA HEALTH AND SAFETY CODE(HSC) OR THE CALIFORNIA CODE OF REGULATIONS(CCR). THE FACILITY MAY BE SUBJECT TO RE-INSPECTION AT ANY TIME BY CONTRA COSTA HEALTH SERVICES HAZARDOUS MATERIALS PROGRAMS(CCHSHMP) TO ENSURE THAT OBSERVED VIOLATIONS CITED ON THE NOTICES ARE CORRECTED. FAILURE TO CORRECT VIOLATIONS WITHIN THE SCHEDULED PERIOD PROVIDED MAY RESULT IN CCHSHMP CITING THE FACILITY FOR CONTINUING OR ADDITIONAL VIOLATIONS. ISSUANCES OF NOTICES DO NOT PRECLUDE CCHSHMP FROM TAKING ANY ADMINISTRATIVE, CIVIL, OR CRIMINAL ACTION AS A RESULT OF THE VIOLATIONS NOTED.

HAZARDOUS WASTE GENERATOR INSPECTION REPORT (CONTINUED)

BUSINESS NAME:	JT TOURS	**CUPA FACILITY ID:**	775391
DATE OF INSPECTION:	DECEMBER 05, 2019	**CERS ID:**	10725403
INSPECTION TYPE:	ROUTINE - ONGOING	**SERIAL NUMBER:**	DAWOLOUJL

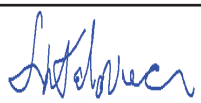
NOTICE TO COMPLY:

A NOTICE TO COMPLY (NTC) IS ISSUED WHEN A MINOR VIOLATION IS OBSERVED. A FACILITY SHALL NOT HAVE MORE THAN THIRTY (30) DAYS FROM THE DATE OF ISSUANCE OF THE NTC TO CORRECT ANY VIOLATION(S) CITED. WITHIN FIVE (5) WORKING DAYS OF CORRECTIONS OF MINOR VIOLATION(S), AN AUTHORIZED REPRESENTATIVE OF THE FACILITY MAY SIGN THE CERTIFICATION OF RETURN TO COMPLIANCE (RTC) AND RETURN THE RTC WITH ANY SUPPORTING DOCUMENTATION TO CCHSHMP; OR A RE-INSPECTION BY CCHSHMP CAN BE ARRANGED TO VERIFY COMPLIANCE.

CONSENT: VERBAL AND OR WRITTEN CONSENT INCLUDES INSPECTING HAZARDOUS MATERIAL/WASTE HANDLING AREAS, TAKING PHOTOGRAPHS, REVIEWING AND COPYING DOCUMENTS, QUESTIONING PERSONNEL AND SAMPLING ACTIVITIES TO DETERMINE COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS.



MICHAEL DUNCAN, HAZARDOUS MATERIALS SPECIALIST II



LYDIA TALAVERA, CO-OWNER

ANNA M. ROTH, RN, MS, MPH
HEALTH SERVICES DIRECTOR
RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH & HAZMAT OFFICER

CONTRA COSTA HEALTH SERVICES

CONTRA COSTA HAZARDOUS MATERIALS PROGRAMS
4585 Pacheco Boulevard, Suite 100
Martinez, California 94553
Ph (925) 335-3200
Fax (925) 646-2073
ccchazmat@hsd.cccounty.us
www.cchealth.org/hazmat/

Public Records Request Form

SR#_____
(office use only)

Date: 1/2/2020

Name: Megan Salcido **Business Name:** AEI Consultants

Address: 3880 South Bascom Avenue Suite 109 **Phone #:** 408-761-0830

San Jose CA 95124 **E-mail:** msalcido@aeiconsultants.com

I am requesting the following public record(s) from Contra Costa Health Services Hazardous Materials Programs.

RECORD(S) REQUESTED: (Use additional form (s) if more space is needed)

All records pertaining to AST/USTs, hazardous material use (permits, inspections, HMBP/HMMPs) and hazardous wastes for 2580 to 2598 (even #s only) Wilbur Avenue in Antioch

Our records are available electronically. Please choose one of the methods below:

[X] Please copy the record(s) and send FedEx to the above mailing address.
The cost is $15.00 and is payable by check or credit card (Visa, Discover or M/C).

[ ] Please copy the record(s) and notify me when ready for pick up.
The cost is $3.00 and is payable by check or cash (**MUST BE EXACT**).

[ ] **If you would like us to provide a list of sites in our database, please choose:**
Please copy all "Active" or "Inactive" sites from database Cost: $15.00

You may email the completed form to ccchazmat@hsd.cccounty.us, or mail or hand deliver to Contra Costa Health Services Hazardous Materials Programs at 4585 Pacheco Blvd., Suite 100, Martinez, CA 94553; or FAX to (925) 646-2073.

Office Use Only:

Date Received_____ Completed_____ ☐No records exist responsive to this request.

Picked Up_____ or FedEx_____ XR_____ Time Spent_____

Rev. April 2018

Megan Salcido

From: ccchazmat <ccchazmat@cchealth.org>
Sent: Friday, January 3, 2020 8:29 AM
To: Megan Salcido
Subject: Re: Request for Records

Good Morning:

We have no records for 2580-2598 Wilbur Ave., Antioch.

Our records go back to 1986, anything prior to this would be the jurisdiction of the local fire department.

FYI: CalEPA has a new website that combines data about environmentally regulated sites and facilities in California into a single, searchable database and interactive map. By combining data from a variety of state and federal databases, the portal provides an overview of regulated activities across the spectrum of environmental programs for any given location in California.

The link to the CalEPA Regulated Site Portal is: https://siteportal.calepa.ca.gov/nsite/

Kind Regards,

Alex McMullen, Clerical Supervisor

Contra Costa Health Services
Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100
Martinez, CA 94553

(925) 335-3200 Phone
(925) 646-2073 Fax
ccchazmat@cchealth.org

From: Megan Salcido <msalcido@aeiconsultants.com>
Sent: Thursday, January 2, 2020 9:54 PM
To: ccchazmat <ccchazmat@cchealth.org>; ccchazmat@hsd.cccounty.us <ccchazmat@hsd.cccounty.us>
Subject: RE: Request for Records

Hello,

Please see my additional attached request.

Thanks,

Megan Salcido

Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

From: ccchazmat <ccchazmat@cchealth.org>
Sent: Monday, December 16, 2019 12:47 PM
To: Megan Salcido <msalcido@aeiconsultants.com>; ccchazmat@hsd.cccounty.us
Subject: Re: Request for Records

Good Afternoon:

Please find the attached requested records for 2540 & 2600 Wilbur Ave., Antioch.

Our records go back to 1986, anything prior to this would be the jurisdiction of the local fire department.

FYI: CalEPA has a new website that combines data about environmentally regulated sites and facilities in California into a single, searchable database and interactive map. By combining data from a variety of state and federal databases, the portal provides an overview of regulated activities across the spectrum of environmental programs for any given location in California.

The link to the CalEPA Regulated Site Portal is: https://siteportal.calepa.ca.gov/nsite/

Kind Regards,

Alex McMullen, Clerical Supervisor

Contra Costa Health Services
Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100
Martinez, CA 94553

(925) 335-3200 Phone
(925) 646-2073 Fax
ccchazmat@cchealth.org

From: Megan Salcido <msalcido@aeiconsultants.com>
Sent: Monday, December 16, 2019 11:03 AM
To: ccchazmat@hsd.cccounty.us <ccchazmat@hsd.cccounty.us>
Subject: [EXTERNAL] Request for Records

Hello,

Please see my attached request and let me know once it has been processed.

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

AEI Consultants
Environmental & Engineering Services
2500 Camino Diablo, Walnut Creek, CA 94597
Tel: 925.746.6000 Fax: 925.746.6099

December 16, 2019

Contra Costa County Fire Protection District

Subject: File Review Request
AEI Project No. 416523

To Whom it May Concern:

Please indicate if you have any current or archived records pertaining to aboveground storage tanks (ASTs), underground storage tanks (USTs), hazardous materials storage/disposal and/or industrial waste discharges for the following site(s):

- 2600 Wilbur Avenue, Antioch

If you do not have any records, please indicate in the space below and fax back this sheet to 408-559-7601, call me at 408-761-0830, or email me at msalcido@aeiconsultants.com if you have any questions.

Sincerely,

Megan Salcido
Project Manager

☐ No Files for address(es) listed above
Name: _____
Title: _____
Phone: _____

X_____ _____
Signature Date

Megan Salcido

From: Fire_District.Info <Info@cccfpd.org>
Sent: Tuesday, December 31, 2019 2:01 PM
To: Megan Salcido
Cc: Brianna Kearney
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Hi –
Lynette has been out sick so Thursday will probably not work – please check in with her Thursday for next available date/time.

Thanks,

Contra Costa County Fire Protection District

-

From: Megan Salcido [mailto:msalcido@aeiconsultants.com]
Sent: Tuesday, December 31, 2019 1:36 PM
To: Fire_District.Info <Info@cccfpd.org>
Cc: Brianna Kearney <bkearney@aeiconsultants.com>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Hi Lynette,

Please advise on Thursdays file review appointment at 10 am.

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

From: Megan Salcido <msalcido@aeiconsultants.com>
Sent: Monday, December 30, 2019 3:46 PM
To: Fire_District.Info <Info@cccfpd.org>
Cc: Brianna Kearney <bkearney@aeiconsultants.com>
Subject: Re: 2600 Wilbur Ave, Antioch - Public Records Request

Hi Lynette,

My associate Brianna is going to do the file review for me, and she is hoping to come in on this Thursday at 10 am. Please let us know if that works. We will want all releasable files of the 51 total pages printed, so it would be ideal if you could confirm which of them are releasable prior to her arrival.

Thanks,

Megan Nolet
AEI Consultants
(408) 559-7600

From: Fire_District.Info <Info@cccfpd.org>
Sent: Friday, December 27, 2019 8:19:37 AM
To: Megan Salcido <msalcido@aeiconsultants.com>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Good morning, Megan!

Unfortunately, I am not available for file review today. Please let me know if there is any day next week that works for you.

Thank you!

Please note that the Administration office will be closed on Wednesday, January 1, 2020 in observance of the New Year holiday.

Best regards,

Lynette R.
Clerk
Contra Costa County Fire Protection District
4005 Port Chicago Hwy, Suite 250
Concord, CA 94520
P: 925-941-3300
F: 925-941-3309
www.cccfpd.org

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From: Megan Salcido [mailto:msalcido@aeiconsultants.com]
Sent: Thursday, December 26, 2019 5:20 PM
To: Fire_District.Info <Info@cccfpd.org>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Hi Lynette,

Can I please come in tomorrow at 11 am to review the files?

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

From: Fire_District.Info <Info@cccfpd.org>
Sent: Monday, December 16, 2019 1:16 PM
To: Megan Salcido <msalcido@aeiconsultants.com>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Good afternoon, Megan!

We have three files (51 pages total) for 2600 Wilbur Avenue in Antioch. If you're interested in reviewing the files, you may schedule an appointment any time Monday – Friday between 9:00 AM to 3:00 PM. Please be sure to schedule the specific time with me.

NB: If you want copies or wish to take photographs of anything in the files, you will have to note the pages down and I will verify if it is releasable. Our ability to release information in our files is subject to copyright laws and the Health and Safety Code.

Please be sure to check with Contra Costa County Hazmat at cchazmat@cchealth.org or (925) 335-3200 for hazardous materials plans.

Thank you!

Best regards,

Lynette R.
Clerk
Contra Costa County Fire Protection District
4005 Port Chicago Hwy, Suite 250
Concord, CA 94520
P: 925-941-3300
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From: Megan Salcido [mailto:msalcido@aeiconsultants.com]
Sent: Monday, December 16, 2019 11:08 AM
To: Fire_District.Info <Info@cccfpd.org>
Subject: Public Records Request

Hello,

Please see my attached request and let me know once it has been processed.

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
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---

Megan Salcido

From: Fire_District.Info <Info@cccfpd.org>
Sent: Monday, January 6, 2020 10:26 AM
To: Megan Salcido
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Good morning, Megan!

I apologize for the delay as I was out sick all last week.

We do not have any records for 2580-2598 Wilbur Avenue in Walnut Creek.

Please let me know when you would like to come in for the file review this week.

Thank you!

Best regards,

Lynette R.
Clerk
Contra Costa County Fire Protection District
4005 Port Chicago Hwy, Suite 250
Concord, CA 94520
P: 925-941-3300
F: 925-941-3309
www.cccfpd.org

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From: Fire_District.Info
Sent: Friday, January 3, 2020 8:29 AM
To: Megan Salcido <msalcido@aeiconsultants.com>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Lynette is still out sick but should be in Monday to answer your emails.

From: Megan Salcido [mailto:msalcido@aeiconsultants.com]
Sent: Thursday, January 2, 2020 9:50 PM
To: Fire_District.Info <Info@cccfpd.org>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Hi Lynette,

I would like to add the addresses of 2580 through 2598 Wilbur Avenue to my original request (2600 Wilbur). Please advise on when I can do the file review.

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

From: Fire_District.Info <Info@cccfpd.org>
Sent: Tuesday, December 31, 2019 2:01 PM
To: Megan Salcido <msalcido@aeiconsultants.com>
Cc: Brianna Kearney <bkearney@aeiconsultants.com>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Hi –
Lynette has been out sick so Thursday will probably not work – please check in with her Thursday for next available date/time.

Thanks,

Contra Costa County Fire Protection District

From: Megan Salcido [mailto:msalcido@aeiconsultants.com]
Sent: Tuesday, December 31, 2019 1:36 PM
To: Fire_District.Info <Info@cccfpd.org>
Cc: Brianna Kearney <bkearney@aeiconsultants.com>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Hi Lynette,

Please advise on Thursdays file review appointment at 10 am.

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

From: Megan Salcido <msalcido@aeiconsultants.com>
Sent: Monday, December 30, 2019 3:46 PM
To: Fire_District.Info <Info@cccfpd.org>
Cc: Brianna Kearney <bkearney@aeiconsultants.com>
Subject: Re: 2600 Wilbur Ave, Antioch - Public Records Request

Hi Lynette,

My associate Brianna is going to do the file review for me, and she is hoping to come in on this Thursday at 10 am. Please let us know if that works. We will want all releasable files of the 51 total pages printed, so it would be ideal if you could confirm which of them are releasable prior to her arrival.

Thanks,

Megan Nolet
AEI Consultants
(408) 559-7600

From: Fire_District.Info <Info@cccfpd.org>
Sent: Friday, December 27, 2019 8:19:37 AM
To: Megan Salcido <msalcido@aeiconsultants.com>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Good morning, Megan!

Unfortunately, I am not available for file review today. Please let me know if there is any day next week that works for you.

Thank you!

Please note that the Administration office will be closed on Wednesday, January 1, 2020 in observance of the New Year holiday.

Best regards,

Lynette R.
Clerk
Contra Costa County Fire Protection District
4005 Port Chicago Hwy, Suite 250
Concord, CA 94520
P: 925-941-3300
F: 925-941-3309
www.cccfpd.org

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From: Megan Salcido [mailto:msalcido@aeiconsultants.com]
Sent: Thursday, December 26, 2019 5:20 PM
To: Fire_District.Info <Info@cccfpd.org>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Hi Lynette,

Can I please come in tomorrow at 11 am to review the files?

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

From: Fire_District.Info <Info@cccfpd.org>
Sent: Monday, December 16, 2019 1:16 PM
To: Megan Salcido <msalcido@aeiconsultants.com>
Subject: RE: 2600 Wilbur Ave, Antioch - Public Records Request

Good afternoon, Megan!

We have three files (51 pages total) for 2600 Wilbur Avenue in Antioch. If you're interested in reviewing the files, you may schedule an appointment any time Monday – Friday between 9:00 AM to 3:00 PM. Please be sure to schedule the specific time with me.

NB: If you want copies or wish to take photographs of anything in the files, you will have to note the pages down and I will verify if it is releasable. Our ability to release information in our files is subject to copyright laws and the Health and Safety Code.

Please be sure to check with Contra Costa County Hazmat at cchazmat@cchealth.org or (925) 335-3200 for hazardous materials plans.

Thank you!

Best regards,

Lynette R.
Clerk
Contra Costa County Fire Protection District
4005 Port Chicago Hwy, Suite 250
Concord, CA 94520
P: 925-941-3300
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From: Megan Salcido [mailto:msalcido@aeiconsultants.com]
Sent: Monday, December 16, 2019 11:08 AM
To: Fire_District.Info <Info@cccfpd.org>
Subject: Public Records Request

Hello,

Please see my attached request and let me know once it has been processed.

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
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---

Megan Salcido

From: Hammers, Cheryl <chammers@ci.antioch.ca.us>
Sent: Thursday, January 2, 2020 8:38 AM
To: Megan Salcido
Subject: RE: Public Records Request

Good morning Megan:

Sorry I missed you last week. I am now back in the office from my holiday break. Please let me know when you will be coming in and I can have the records ready for you.

Thank you,

Cheryl Hammers
Community Development Technician

Main: (925) 779-7035
Desk: (925) 779-6108
Fax: (925) 779-7034
Web: www.antiochca.gov

City of Antioch | P.O. Box 5007, Antioch, CA 94531-5007

ANTIOCH
CALIFORNIA
OPPORTUNITY LIVES HERE

From: Megan Salcido <msalcido@aeiconsultants.com>
Sent: Thursday, December 26, 2019 9:33 AM
To: Hammers, Cheryl <chammers@ci.antioch.ca.us>
Subject: RE: Public Records Request

Hi Cheryl,

Thanks for letting me know. I was hoping to come in tomorrow to get the records, but I called and the office staff could not find the records in will call. Please call or email me once you return.

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601

www.aeiconsultants.com

From: Hammers, Cheryl <chammers@ci.antioch.ca.us>
Sent: Friday, December 20, 2019 8:16 AM
To: Megan Salcido <msalcido@aeiconsultants.com>
Subject: FW: Public Records Request

Good morning Megan:

In response to your request, we have located 65 pages of information on 2600 Wilbur Avenue. Our charge is as follows: 65 copies @ .20 = $13.00

The copies are available to be picked up at your convenience but please let me know when you can come in as we have holiday closures during the next two weeks. If you prefer these to be mailed to you, we would need to charge you for postage as well, which additional amount I can get for you today if you would like.

Please let me know your preference.

Thank you,

Cheryl Hammers
Community Development Technician

Main: (925) 779-7035
Desk: (925) 779-6108
Fax: (925) 779-7034
Web: www.antiochca.gov

City of Antioch | P.O. Box 5007, Antioch, CA 94531-5007

ANTIOCH
CALIFORNIA
OPPORTUNITY LIVES HERE

From: Megan Salcido <msalcido@aeiconsultants.com>
Sent: Monday, December 16, 2019 11:09 AM
To: Leach, Tamara <tleach@ci.antioch.ca.us>; Suba, Meghan <msuba@ci.antioch.ca.us>
Subject: Public Records Request

Hello,

I am interested in reviewing all historical (microfiche) and recent building permits on file for the address 2600 Wilbur Avenue. Please let me know what your file review process is.

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109

San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

Department of Toxic Substances Control

Meredith Williams, Ph.D.
Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

Facility Search Results

Selection Criteria:

Facility:
Search on: Physical Address
Street: Wilbur
City: Antioch
Status: Active and Inactive
Sort Direction: asc
Sorted By: EPA ID
Records Found: 120

EPA ID Number	Name	Address	City	Zip
CAC000023366	1X DOMPAR GYPSUM AMERICA INC	WILBUR AVE & MINIKER ST	ANTIOCH	945090000
CAC000062837	1X COUGHRAN PROPERTIES	620 WILBUR AVE	ANTIOCH	945090000
CAC000206458	1X WESTERN STEEL & TIN PLATE, INC.	2200 WILBUR AVENUE	ANTIOCH	945090000
CAC000218241	1X SPORTSMAN YACHT CLUB, INC.	2045 WILBUR AVENUE	ANTIOCH	945090000
CAC000241097	1X SPORTSMAN YACHT CLUB	2045 WILBUR AVENUE	ANTIOCH	945090000
CAC000283331	1X BATTAGLINI, DAVID	540 WILBUR AVENUE	ANTIOCH	945060000
CAC000518176	1X IMPERIAL WEST CHEMICAL	1701 WILBUR AVE	ANTIOCH	945090000
CAC000530288	1X FOWLER & UNDERWOOD	901 WILBUR AVE	ANTIOCH	945530000
CAC000660616	1X LINCOLN PROPERTY COMPANY	2200 WILBUR LANE	ANTIOCH	945090000
CAC000677912	1X CA PPR BRD INC	1779 WILBUR AV	ANTIOCH	945090000
CAC000721192	ANTIOCH PAVING COMPANY	2540 WILBUR AVENUE	ANTIOCH	945090000
CAC000872336	RITTER MANUFACTORING INC	521 WILBUR AVE	ANTIOCH	945090000
CAC000982584	FRED F HARZER LIVING TRUST	600 WILBUR	ANTIOCH	954310000
CAC001071728	ANTIOCH DISTRIBUTION CENTER	2300 WILBUR AVENUE	ANTIOCH	945090000
CAC001149328	SPORTSMEN YACHT CLUB	3301 WILBUR AVE	ANTIOCH	945090000
CAC001341072	WES ANDERSON ENGINEERING	3551 WILBUR	ANTIOCH	945090000
CAC001348256	PACIFIC GAS & ELECTRIC	2603 WILBUR AVE	ANTIOCH	945090000
CAC001361072	KEICON	3551 WILBUR AVE	ANTIOCH	945090000
CAC002112760	JACK MANNIE	3665 WILBUR AVE	ANTIOCH	945090000
CAC002469807	DILLINGHAM CONSTRUCTION	3302 WILBUR AVE	ANTIOCH	945090000
CAC002483743	KIEWIT PACIFIC CO	3203 WILBUR AVE	ANTIOCH	945090000
CAC002560711	F&F ANTIOCH ASSOCIATES LLC	2300 WILBUR LN	ANTIOCH	94509
CAC002567145	TRI DELTA TRANSIT	801 WILBUR AVE	ANTIOCH	945097500
CAC002572810	DISPATCH SERVICES INC	2180 WILBUR AVE	ANTIOCH	94509
CAC002599144	WILLIAM PRICE	3307 WILBUR AVE	ANTIOCH	945098529
CAC002614661	TRINITY PROPERTY CONSULTANTS LLC	2100 WILBUR AVE	ANTIOCH	945098508
CAC002616059	PG & E	3225 WILBUR AVE	ANTIOCH	94509
CAC002616091	VALLEE CONSTRUCTION	2300 WILBUR LN	ANTIOCH	94509
CAC002617359	P G AND E CONTRA COSTA SWITCH YARD	3201 B WILBUR AVE	ANTIOCH	945090000
CAC002619197	PERFORMANCE MECHANICAL INC	3225 WILBUR AVE	ANTIOCH	94509
CAC002619406	GOLDEN STATE CONTAINER INC	2180 WILBUR LN	ANTIOCH	94509
CAC002622579	GATEWAY GENERATING STATION	3225 WILBUR AVE	ANTIOCH	945098546
CAC002623066	PAUL DAVIS	701 WILBUR AVE	ANTIOCH	945097536
CAC002626846	CONCORD SHEET METAL INC	2300 WILBUR AVE	ANTIOCH	945098512
CAC002632225	ANTIOCH DISTRIBUTION CENTER	2140 WILBUR AVE	ANTIOCH	945098508
CAC002633193	BRIDGEWATER EQUIPMENT	3200 WILBUR AVE	ANTIOCH	94509
CAC002633328	TRANSFORMER TECHNOLOGIES,LTD	3201 WILBUR AVE	ANTIOCH	94509

	LIABILITY/MIRANT			
CAC002635045	DAVID JOHNSON	701 WILBUR AVE	ANTIOCH	945097536
CAC002640920	PACIFIC GAS & ELECTRIC	1450 WILBUR AVE	ANTIOCH	94509
CAC002671503	DECON ENVIRONMENTAL	2603 WILBUR AVE	ANTIOCH	94509
CAC002677825	ALLSTAR FINANCIAL CORP	1000 WILBUR AVE	ANTIOCH	94509
CAC002736447	ADVANCED PIPELINE SERVICES, INC.	2400 WILBUR AVE	ANTIOCH	94509
CAC002772698	REDZONE RACE	511 WILBUR AVE STE B1	ANTIOCH	945097563
CAC002861040	PG&E	2600 WILBUR AVE	ANTIOCH	94509
CAC002862341	PG&E	2600 WILBUR AVE	ANTIOCH	94509
CAC002893739	VICTOR METAS	511 WILBUR AVENUE	ANTIOCH	94509
CAD009148180	GAYLORD CONTAINER CORPORATION	2301 WILBUR AVE	ANTIOCH	945090000
CAD009151705	GAYLORD CONTAINER CORP	1969 WILBUR AVE	ANTIOCH	945090000
CAD041316043	KNA CALIFORNIA INC	2151 WILBUR AVE	ANTIOCH	945090000
CAD982447021	SILGAN CONTAINERS MFG. CORP.	2200 WILBUR AVE	ANTIOCH	945090000
CAD983593286	EASTERN CONTRA COSTA TRANSIT AUTHORITY	801 WILBUR AVE	ANTIOCH	945090000
CAL000000218	ANTIOCH AUTO MASTER	11 WILBUR AVE	ANTIOCH	945090000
CAL000014820	MICHAEL H. CLEMENT CORPORATION	3500 WILBUR AVE	ANTIOCH	945098504
CAL000025353	GWF POWER SYSTEMS LP	3400 WILBUR AVENUE	ANTIOCH	945090000
CAL000027428	WILBUR AVENUE EAST POWER PLANT	2100 WILBUR AVENUE	ANTIOCH	945090000
CAL000027429	GWF POWER SYSTEMS LP	1900 WILBUR AVENUE	ANTIOCH	945090000
CAL000032060	EASTERN CONTRA COSTA TRANSIT A	801 WILBUR AVENUE	ANTIOCH	945090000
CAL000041558	VERCO MFG CO	607 WILBUR AVE	ANTIOCH	945090000
CAL000058335	ANTIOCH PAVING	2540 WILBUR AVE	ANTIOCH	945090000
CAL000058713	KIE-CON A DIVISION OF KIEWIT PACIFIC	3551 WILBUR AVE	ANTIOCH	945098530
CAL000060188	BRIDGEHEAD DRY DOCK INC	WILBUR AVE	ANTIOCH	923070000
CAL000064469	JOHN AND SONS QUALITY AUTO REPAIR	2 WILBUR AVE	ANTIOCH	945090000
CAL000068307	CANNED FOODS INC	2180 WILBUR AVE	ANTIOCH	945098508
CAL000069257	CANNED FOODS INC	2180 WILBUR LN	ANTIOCH	945090000
CAL000147279	NOR-CAL READY MIX INC DBA AR READY MIX	3600 WILBUR AVE	ANTIOCH	945098536
CAL000157181	D & H MACHINE	2300 WILBUR	ANTIOCH	945090000
CAL000161804	RITTER MANUFACTURING INC	521 WILBUR AVE	ANTIOCH	945090000
CAL000167865	ACE TRANSMISSIONS	511 WILBUR AVE	ANTIOCH	945090000
CAL000179394	PACIFIC RIM INC	3500 WILBUR	ANTIOCH	945090000
CAL000187927	S O S CONSTRUCTION INC	2603 WILBUR AVE GATE 6	ANTIOCH	945090000
CAL000200558	ANTIOCH PAVING	2540 WILBUR AVE	ANTIOCH	945090000
CAL000205152	ACAPILCO AUTO SERVICE	2 WILBUR AVE	ANTIOCH	945090000
CAL000240145	RAMROCK LEASING & EQUIPMENT CO INC	3500 WILBUR AVE	ANTIOCH	945090000
CAL000251079	SILGAN CONTAINERS MFG CORP	2200 WILBUR AVE	ANTIOCH	945090000
CAL000277798	DISPATCH SERVICES INC	2180 WILBUR AVE	ANTIOCH	94509
CAL000278978	JBA TRUCKING	2400 WILBUR AVE	ANTIOCH	945098514
CAL000280321	REBELLO RACING	511 WILBUR AVE BLDG A UNIT 5	ANTIOCH	94509
CAL000285708	ALHAMBRA ENVIRONMENTAL SERVICES INC	2151 WILBUR AVE	ANTIOCH	94509
CAL000292124	EASTERN CONTRA COSTA TRANSIT AUTHORITY DBA TRI DELTA TRANSIT	801 WILBUR AVE	ANTIOCH	945090000
CAL000298738	IGLESIAS BROTHERS CONCRETE	1000 WILBUR AVE	ANTIOCH	94509
CAL000298842	AUTOMASTERS OF ANTIOCH	11 WILBUR AVE	ANTIOCH	945090000
CAL000302117	CEMEX CONSTRUCTION MATERIALS PACIFIC LLC	3600 WILBUR AVE	ANTIOCH	945098536
CAL000305465	TRANSPORTATIO BY DNG INC DBA DNG TRANSPORTATION	3000 WILBUR AVE	ANTIOCH	94509
CAL000307625	L TARANGO	2570 WILBUR AVE	ANTIOCH	94509
CAL000313126	VERCO DECKING INC - A NUCOR CO	607 WILBUR AVE	ANTIOCH	945097502
CAL000321559	ACS HAZMAT CONTAINMENT	511 WILBUR AVE STE B6	ANTIOCH	945097563
CAL000322183	AIKEN UNDERGROUND INC	3000 WILBUR AVE STE B	ANTIOCH	94509
CAL000324804	BAY COUNTIES PITCOCK PETROLEUM INC	3050 WILBUR AVE	ANTIOCH	945098526
CAL000328225	FORESTAR USA REAL ESTATE GROUP INC	2301 WILBUR AVE	ANTIOCH	945098513
CAL000328859	ARB INC	3225 WILBUR AVE	ANTIOCH	945098546
CAL000336413	PAGNINIS INC	2400 WILBUR AVE	ANTIOCH	94509
CAL000337103	STEVE'S AUTO PAINT	511 WILBUR AVE STE B2	ANTIOCH	945097563
CAL000344622	CONCORD SHEET METAL	2300 WILBUR AVE	ANTIOCH	945098512
CAL000344685	CONCORD SHEET METAL	2300 WILBUR AVE	ANTIOCH	94509
CAL000355564	KIE-CON INC	3551 WILBUR AVE	ANTIOCH	945098530
CAL000355992	HOMESITE SERVICES INC	2400 WILBUR AVE	ANTIOCH	945098514
CAL000357327	SCOTTS SPEED 7 CUSTOM	511 WILBUR AVE STE A4	ANTIOCH	945097563
CAL000358276	DARRYLS COLLISION CENTER	511 WILBUR AVE STE B1	ANTIOCH	945097563
CAL000359366	MARSH LANDING GENERATING STATION	3201 WILBUR AVE	ANTIOCH	94509
CAL000367962	ANTIOCH BULK PLANT - CARDLOCK	3050 WILBUR AVE	ANTIOCH	94509

CAL000370123	AFFORDABLE TIRE CENTER	11 WILBUR AVE	ANTIOCH	94509
CAL000370356	CRAIG BAKER DBA CUPERTINO TOWING	2300 WILBUR LN	ANTIOCH	94509
CAL000376430	ANTIOCH CONVERTIBLE & AUTO UPHOLSTERY	511 WILBUR AVE STE A7	ANTIOCH	94509
CAL000395780	EAST BAY AUTO SERVICES	511 WILBUR AVE STE A2	ANTIOCH	945097563
CAL000396910	BNSF ANTIOCH	3665 WILBUR AVE	ANTIOCH	945098531
CAL000403153	ANTIOCH CONVERTIBLE & AUTO UPHOLSTERY	511 WILBUR AVE STE B3	ANTIOCH	94509
CAL000406641	USA TRUCKING INC	1900 WILBUR AVE	ANTIOCH	94509
CAL000411638	C & J FAVALORA TRUCKING INC	2590 WILBUR AVE	ANTIOCH	94509
CAL000412210	JUAN TALVERA DBA JT TOURS	2600 WILBUR AVE	ANTIOCH	94509
CAL000413583	CRUZ IN GARAGE	511 WILBUR AVE STE A4	ANTIOCH	945097563
CAL000433315	ADVANCE DESIGN MFG LLC	2300 WILBUR AVE	ANTIOCH	94509
CAL000441884	ALLIANCE MARINE	3665 WILBUR AVE	ANTIOCH	94509
CAP400478277	LINCOLN ANTIOCH	1760 WILBUR AVE	ANTIOCH	945094509
CAR000054718	PACIFIC GAS & ELECTRIC/ CONTRA COSTA SWITCH YARD	3201 B WILBUR AVE	ANTIOCH	945090000
CAR000161513	DELNETICS INC	521 WILBUR AVE	ANTIOCH	945092186
CAR000188565	PACIFIC GAS AND ELECTRIC CO GATEWAY GENERATING STATION	3225 WILBUR AVE	ANTIOCH	945090000
CAR000217273	MARSH LANDING GENERATING STATION	3201 WILBUR AVE # C	ANTIOCH	945098546
CAT080011489	CONTRA COSTA GENERATING STATION	3201 WILBUR AVE	ANTIOCH	945090000
CAX000017434	LINCOLN ANTIOCH	WILBUR AVE.	ANTIOCH	945090000
CAX000112466	DOMTAR GYPSUM CO.	HILLSIDE & WILBUR AVE.	ANTIOCH	945090000

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 01/02/2020

Department of Toxic Substances Control
Meredith Williams, Ph.D.
Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

EPA ID PROFILE

Map

ID Number:	CAL000411638	**Status:**	INACTIVE
Name:	C & J FAVALORA TRUCKING INC	**Inactive Date:**	6/30/2016 12:00:00 AM
County:	CONTRA COSTA	**Record Entered:**	10/27/2015 3:13:07 PM
NAICS:	562119	**Last Updated:**	1/12/2017 12:49:35 PM

	Name	Address	City	State	Zip Code	Phone
Location	C & J FAVALORA TRUCKING INC	2590 WILBUR AVE	ANTIOCH	CA	94509	
Mailing		74 CORMORANT CT	MARTINEZ	CA	94553	
Owner	JOHN FAVALORA	74 CORMORANT CT	MARTINEZ	CA	94553	9252229892
Operator/Contact	JOHN FAVALORA	74 CORMORANT CT	MARTINEZ	CA	94553	9252229892

Based Only Upon ID Number: **CAL000411638**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
N/A	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

No Records Found

Non California Manifest Total Tonnage

No Records Found

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

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Environmental Protection

Gavin Newsom
Governor

EPA ID PROFILE

Map

ID Number:	CAC002861040	**Status:**	INACTIVE
Name:	PG&E	**Inactive Date:**	8/16/2016 3:00:38 AM
County:	CONTRA COSTA	**Record Entered:**	5/16/2016 9:19:26 AM
NAICS:	48621	**Last Updated:**	8/31/2017 3:01:59 PM

	Name	Address	City	State	Zip Code	Phone
Location	PG&E	2600 WILBUR AVE	ANTIOCH	CA	94509	
Mailing		PO BOX 7640	SAN FRANCISCO	CA	941207640	
Owner	PACIFIC GAS & ELECTRIC	PO BOX 7640	SAN FRANCISCO	CA	941207640	2093239617
Operator/Contact	LEAH UPCHURCH	12626 JACKSON GATE RD	JACKSON	CA	95642	2093239617

Based Only Upon ID Number: **CAC002861040**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
Yes	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

Year	Generator	Trans. 1	Trans. 2	TSDF	ALT. TSDF
2016	1 0.40000	0 0.00000	0 0.00000	0 0.00000	0 0.00000

Non California Manifest Total Tonnage

No Records Found

Waste Code Matrix					
California	Generator	Trans. 1	Trans. 2	TSDF	Alt. TSDF
RCRA	Generator	Trans. 1	Trans. 2	TSDF	Alt. TSDF

Waste Code Matrix as a spreadsheet

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 01/02/2020

California Waste Code by Year Matrix

ID Number: CAC002861040
Entity Type: Generator

2016 ▾ 2020 ▾ Select Years

Calif. Code	Description	2016
223	UNSPECIFIED OIL-CONTAINING WASTE	0.40000
	Grand Total	0.40000

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 01/02/2020

RCRA Waste Code by Year Matrix

ID Number: **CAC002861040**
Entity Type: **Generator**

2016 ▾ 2020 ▾ Select Years

RCRA Code	Federal Waste Description	2016
	Blank/Unknown	0.40000
	Grand Totals	**0.40000**

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

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Meredith Williams, Ph.D.
Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

EPA ID PROFILE

Map

ID Number:	CAC002862341	**Status:**	INACTIVE
Name:	PG&E	**Inactive Date:**	8/25/2016 3:00:33 AM
County:	CONTRA COSTA	**Record Entered:**	5/25/2016 10:16:03 AM
NAICS:	48621	**Last Updated:**	8/31/2017 3:01:59 PM

	Name	Address	City	State	Zip Code	Phone
Location	PG&E	2600 WILBUR AVE	ANTIOCH	CA	94509	
Mailing		PO BOX 7640	SAN FRANCISCO	CA	941207640	
Owner	PACIFIC GAS & ELECTRIC	PO BOX 7640	SAN FRANCISCO	CA	941207640	2093239617
Operator/Contact	LEAH UPCHURCH	12626 JACKSON GATE RD	JACKSON	CA	95642	2093239617

Based Only Upon ID Number: **CAC002862341**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
Yes	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

Year	Generator	Trans. 1	Trans. 2	TSDF	ALT. TSDF
2016	8 219.96000	0 0.00000	0 0.00000	0 0.00000	0 0.00000

Non California Manifest Total Tonnage

No Records Found

Waste Code Matrix					
California	Generator	Trans. 1	Trans. 2	TSDF	Alt. TSDF
RCRA	Generator	Trans. 1	Trans. 2	TSDF	Alt. TSDF

Waste Code Matrix as a spreadsheet

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 01/02/2020

California Waste Code by Year Matrix

ID Number: **CAC002862341**
Entity Type: **Generator**

2016 ▾ 2020 ▾ Select Years

Calif. Code	Description	2016
611	CONTAMINATED SOILS FROM SITE CLEAN-UP	219.96000
	Grand Total	**219.96000**

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 01/02/2020

RCRA Waste Code by Year Matrix

ID Number: **CAC002862341**
Entity Type: **Generator**

2016 ▾ 2020 ▾ Select Years

RCRA Code	Federal Waste Description	2016
	Blank/Unknown	219.96000
	Grand Totals	**219.96000**

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

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Sacramento, California 95812-0806

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

EPA ID PROFILE

Map

ID Number:	CAL000412210	**Status:**	INACTIVE
Name:	JUAN TALVERA DBA JT TOURS	**Inactive Date:**	6/30/2016 12:00:00 AM
County:	CONTRA COSTA	**Record Entered:**	11/10/2015 2:11:52 PM
NAICS:	48551	**Last Updated:**	1/12/2017 12:49:35 PM

	Name	Address	City	State	Zip Code	Phone
Location	JUAN TALVERA DBA JT TOURS	2600 WILBUR AVE	ANTIOCH	CA	94509	
Mailing		PO BOX 709	OAKLEY	CA	94561	
Owner	JUAN TALAVERA	1796 ANASTASIA DR	BRENTWOOD	CA	945136596	9255507174
Operator/Contact	JUAN TALAVERA	1796 ANASTASIA DR	BRENTWOOD	CA	945136596	9255507174

Based Only Upon ID Number: **CAL000412210**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
N/A	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

No Records Found

Non California Manifest Total Tonnage

No Records Found

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 01/02/2020

GeoTracker

2600 Wilbur Avenue, Antioch, CA, USA

Map Address

Map | Satellite

Sites and Facilities - INFO

Cleanup Sites

- [x] LUST Cleanup Sites
- [x] Cleanup Program Sites
- [x] Military Cleanup Sites
- [ ] DTSC Cleanup Sites

Permitted Facilities

- [x] Waste Discharge Requirements (WDR) Sites
- [ ] Permitted USTs - INFO
- [ ] DTSC Hazardous Waste Sites
- [ ] Land Disposal Sites
- [x] Irrigated Lands Regulatory Program Sites
- [ ] Oil / Gas Sites
- [x] Confined Animal Sites

Other Sites

- [ ] Project Sites
- [ ] Non-Case Information Sites
- [ ] Sampling Points - Public
- [ ] Field Points
- [ ] AGLand Domestic Wells

☒ SIGNIFIES A CLOSED SITE

Tools

Map Coverages

TAKE A TOUR | VIEW ON GAMA

Gen On Energy
Jim's Holiday
Kie-C
Maritime Way
Gateway Generating Station
Bridgel Marine Serv
Perk's Sports Academy
CoCo Farms
Home Site Services Maintenance
gan Containers Corporation
Antioch Tile & Stone
48forty Solutions
Wilbur Ave
Viera Ave
Hunt & Sons
OneSource upply Solutions
Santa Fe Ave
Walnut Ave
Vineyard.cut
Markstein Sales
American Alarm
Bridgehead Self Storage
Tech Drilling & Shoring, Inc
Bown Ave
Vine Ln
Northern Directional Drilling, Inc
Taxi An6
Sandy Way
Sandy Ct
Trembath Ln
St Claire Dr
Wymore Way
Rocky Mountain Windowtint
Stewart Ln
Arrowhead Towing
Drive in Way
7-Eleven | Valer | Car Was
Cornerstone Christian Center
Bridgehead Cafe
Morgan's Home & Garden Center
Four Stars Gymnastics Academy
Gotcha Bait & Tackle, Inc
Mac's Old House
E 18th St
Wayne E Swisher Cement Contractor
Athens Ln
Google
Map data ©2020 Google 100 m Terms of Use Report a map error

Well Finder
DOGGR GIS

More Info | Help | ©

- Well Status and Well Type Filter
- Search
- Zoom to Field
- Measurement
- Layers

2600 Wilbur Ave, Antioch, CA,

Basemaps

Wilbur Ave

Wilbur Ln

Santa Fe Ave

Viera Ave

Walnut Ave

Bown Ln

Vine Ln

Wymore Way

St Claire Dr

Stewart Ln

Vineyard Dr

Burlington Northern Santa

Antioch

600ft

1:9,028 38.01524 -121.760675

Powered by WellSTAR

Public Viewer

Map Layers | Query Tools | 2600 Wilbur Ave, Antioch, CA 94 | Help

Map

Map Layers

- Accidents (Liquid)
- Incidents (Gas)
- Gas Transmission Pipelines
- Hazardous Liquid Pipelines
- LNG Plants
- Breakout Tanks
- Other Populated Areas (s... dependent)
- Highly Populated Areas (s... dependent)
- Commercially Navigable Wa...
  - CNW Inland
  - CNW Ocean/Great Lakes
- Great Lakes
- State Boundaries
  - Show Labels
- County Boundaries
  - Show Labels
- Map
- Satellite

Ready | Zoom Level: 14 of 19 (1:24,000) Closest Zoom for Pipelines | 38.015019, -121.704988 | COUNTY : Contra Costa, CA

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Megan Salcido

From: Chodoroff, Eric@DTSC <Eric.Chodoroff@dtsc.ca.gov>
Sent: Thursday, December 19, 2019 12:28 PM
To: Megan Salcido
Subject: RE: INDUSTRIAL LOT WITH RAILROAD SIDING (07990014)

Hi Megan,

To my knowledge, the records on Envirostor are complete for the Industrial Lot with Railroad Siding Site located at 2600 Wilbur Ave in Antioch.

The procedure for completing a formal Public Records Act request can be found here: https://dtsc.ca.gov/accessing-public-records-guidelines/

Thanks,

Eric Chodoroff
Project Manager
Site Mitigation and Restoration Program
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, CA 94710
(510) 540-3777

From: Megan Salcido <msalcido@aeiconsultants.com>
Sent: Monday, December 16, 2019 11:12 AM
To: Chodoroff, Eric@DTSC <Eric.Chodoroff@dtsc.ca.gov>
Subject: INDUSTRIAL LOT WITH RAILROAD SIDING (07990014)

Hi Eric,

I am working on a Phase I ESA for the property at 2600 Wilbur Ave in Antioch, for which you are listed as the case worker for the closed VCP case for the property. Are all of the DTSC's records for this site available on EnviroStor? Please let me know.

Thanks,

Megan Salcido
Project Manager
AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124

e. msalcido@aeiconsultants.com
p. 408.559.7600
f. 408.559.7601
www.aeiconsultants.com

Megan Salcido

From: Public Records <PublicRecords@baaqmd.gov>
Sent: Monday, December 16, 2019 1:33 PM
To: Megan Salcido
Subject: Public Records Request No. 2019-12-0134

Dear Megan Salcido,

Thank you for your request. We have searched our records and have no records that respond to your below request for:

2600 Wilbur Avenue
Antioch

If you have any questions or concerns, please call or e-mail me.

Sincerely,

Magnolia Vinluan-Chan for
Rochelle Henderson
Public Records Section
BAAQMD
415-516-1916

Megan Salcido

From: Public Records <PublicRecords@baaqmd.gov>
Sent: Monday, January 6, 2020 1:42 PM
To: Megan Salcido
Subject: Public Records Request No. 2020-01-0006

Dear Megan Salcido,

Thank you for your request. We have searched our records and have no records that respond to your below request for:

2580 to 2598 Wilbur Avenue (even #s only)
Antioch

If you have any questions or concerns, please call or e-mail me.

Sincerely,

Magnolia Vinluan-Chan for
Rochelle Henderson
Public Records Section
BAAQMD
415-516-1916

APPENDIX F

PREVIOUS REPORTS

GeoSolve, Inc.®
Geoscience Solutions rather than Status-Quo



Visit us at www.geosolve-inc.com

PHASE II ENVIRONMENTAL SITE ASSESSMENT

For

2600 Wilbur Avenue
Antioch, California 94040

For

GARAVENTA PROPERTIES, INC.

Attorney-Client Privileged Document - Confidential

By

GeoSolve, Inc.

Project No. 2019-26

December 12, 2019

1807 Santa Rita Road, Suite H-165 • Pleasanton, CA 94566
rcampbell@geosolve-inc.com • (925) 963-1198

GeoSolve, Inc.®
Geoscience Solutions rather than Status-Quo

Visit us at www.geosolve-inc.com

Project No. 2019-26
December 12, 2019

Mr. Mike Bonnifield
Attorney at Law
Garaventa Properties
P.O. Box 5397
Concord, California 94524

Subject: 2600 Wilbur Avenue
Antioch, California 94040
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Dear Mr. Bonnifield:

At your request, ***GeoSolve, Inc.*** is pleased to present our Phase II Environmental Site Assessment (ESA) for the above referenced site. This work including drilling and sampling eight soil borings to 30 feet below ground surface (bgs), including groundwater, and eight shallow borings to 5 feet bgs to evaluate soil-gas beneath the site. This report summaries our findings and conclusions. Based on our Phase II ESA, no elevated chemical constituents were detected below the subject site.

Should you have any questions relating to the contents of this Phase II ESA or require any additional information, please contact our office at your convenience.

Sincerely,
GeoSolve, Inc.

PROFESSIONAL GEOLOGIST
ROBERT D. CAMPBELL
P.G., C.E.G.
No. 2089
CERTIFIED ENGINEERING GEOLOGIST
Exp 11-30-20
STATE OF CALIFORNIA

Robert D. Campbell, M.S., P.G., C.E.G., Q.S.D.
Principal Engineering Geologist

Copies: 1 to Garaventa Properties, Inc.

Attorney Privileged Document - Confidential

1807 Santa Rita Road, Suite H-165 • Pleasanton, CA 94566
rcampbell@geosolve-inc.com • (925) 963-1198

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APPENDIX B –McCAMPBELL ANALYTICAL LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTION

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INTRODUCTION

Garaventa Properties, Inc. (Garaventa) authorized ***GeoSolve, Inc.*** to conduct this Phase II Environmental Site Assessment (ESA) in accordance with our Proposal No. 19-64 dated October 31, 2019 to evaluate the subsurface soil, shallow soil-gas and groundwater for environmental contamination from petroleum- and chlorinated hydrocarbons and metals.

Site Description

The site consists of a 10.27-acre parcel located at 2600 Wilbur Avenue in Antioch, California. The property is mostly vacant, with a corrugated steel commercial building located on the eastern portion of the property, which was built in 2012. The property has an Assessor's Parcel Number (APN) 051-032-009-6. The location of the site is shown on the Site Vicinity Map, Figure 1 and the layout of the property is shown on the Site Plan, Figure 2.

Local Geology and Hydrogeology

The materials underlying the site are mapped as Quaternary beach and dune sand deposits (Qhsc), which consist of loose, well-sorted fine- to medium-grained sand. The thickness of this unit varies from 10 feet to 25 feet and was formed from wave abrasion along sea cliffs and sand deposits during flooding along the San Joaquin River. Alternating layers of clay, silt, sand and gravel underly the beach and dune sand deposits up to 2 kilometers (km) in depth.

The active trace of the Concord Fault zone is situated approximately 21.7 km west of the subject site, and are considered active according to the Alquist-Priolo Earthquake Fault Zones Act (1997), and are strike-slip faults with right-lateral motion. The inactive Davis Fault is situated approximately 3.3 km west and the property is situated within a potential liquefaction zone (http://gmw.conservation.ca.gov/SHP/EZRIM/Maps/ANTIOCH_NORTH_EZRIM.pdf).

The subsurface materials encountered during this Phase II ESA are consistent with beach and dune sand deposits and groundwater was encountered between 21 feet to 26 feet and stabilized after 20 minutes at 20 feet to 25 feet bgs and flows north toward the San Joaquin River.

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PHASE II ENVIRONMENTAL SITE ASSESSMENT

The objectives of this Phase II ESA included:

1. Logging the subsurface soil for potential staining, variation and geology;
2. Evaluation of potential metals, polychlorinated biphenyls (PCBs) and organochlorine pesticides within the surficial soil;
3. Evaluation of volatile organic compounds (VOCs) within the shallow soil-gas; and
4. Evaluation of petroleum-hydrocarbons, chlorinated-hydrocarbons and metals within the subsurface soil and groundwater.

The following sections describe the data collection required to achieve these objectives. The only data gap presented in this report is no groundwater was available for collection within boring B-5.

Fieldwork

On November 22 and 23, 2019, a ***GeoSolve, Inc.*** field geologist observed Penecore Drilling, Inc. advance borings B-1 through B-8 to approximately 30 feet bgs and temporary vapor probes VP-1 through VP-8 to approximately 5 feet bgs using a direct-push, stainless-steel dual-tube sampling rods to obtain continuous soil sample cores from 5-foot intervals for soil description according to the Unified Soil Classification System (USCS). The location of borings B-1 through B-8 and vapor-probes VP-1 through VP-8 are shown on Figure 2, Site Plan. Drilling activities are shown on the digital photograph below.

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Attorney-Client Privileged Document Confidential

Installation of Nested Temporary Soil-Gas Probes

A ***GeoSolve, Inc.*** field geologist observed Penecore Drilling complete borings VP-1 through VP-8 and install nested temporary soil-gas probes. The soil-gas sampling probes were installed with one-foot screened intervals from 5- to 4-feet bgs, respectively, as further discussed below. Soil-gas probes VP-1 through VP-8 were allowed to set for 2-hours prior to sampling in accordance with the DTSC Soil-Gas Advisory (2012).

Installation of the temporary soil-gas probes was conducted as follows:

- Approximately 6-inches of Monterey #3 sand was placed on the bottom of the borehole at 5 feet bgs;
- A down-hole rod was used to center a permeable vapor tip connected to 0.25-inch diameter Nylaflow tubing on the top of the sand, and an additional 6 inches of Monterey #3 sand was placed over the vapor-tip.
- A 12-inch layer of dry granular bentonite was placed on top of the Monterey #3 sand, and a 4-foot layer of hydrated bentonite was placed over the granular bentonite to grade in each vapor-probe.

Upon completion of sampling activities, approximately one foot of bentonite was removed from each borehole and replaced with sand to within 4-inches of ground surface. The final 4-inches was matched to original conditions (asphalt and/or concrete) to grade and the ground surface was dyed in asphalt areas.

Soil-Gas Sampling Activities

Samples were collected a minimum of 2 hours after installation of the temporary soil-gas sampling probes. After the soil-gas probes set for 2-hours, soil-gas samples were collected from VP-1 through VP-6 on November 22, 2019 and from VP-7 and VP-8 on November 23, 2019 using clean Nylon-tubing was attached to each soil-gas sampling probe and then attached to a vacuum pump. Approximately 2 minutes of soil-gas were purged prior to sampling each vapor probe.

GeoSolve, Inc. personnel attached clean Nylon-tubing to each soil-gas sampling probe and then attached the Nylon-tubing to the vacuum pump and laboratory supplied opaque Tedlar sampling bags. Each Tedlar bag was allowed to completely fill and then the sampling ports were closed, and each sample was labeled and placed within a cardboard box for temporary storage.

Once soil-gas sampling activities were completed, the Tedlar sample bags were delivered under chain-of-custody documents to McCampbell Analytical, Inc. for analysis using Environmental Protection Agency (EPA) Method SW8260B. McCampbell Analytical, Inc. is a State-certified hazardous waste testing laboratory, Certification No. 1644, in Pittsburg, California.

Soil Sampling Activities

Each boring was continuously logged by a ***GeoSolve, Inc.*** field geologist in accordance with the Unified Soil Classification System (USCS) to identify each geologic unit beneath the site and to collect soil samples for laboratory analyses. The following soil samples were collected from the borings for laboratory analysis: B1-1, B1-5, B1-15, B2-1, B2-5, B2-20, B3-1, B3-5, B3-20, B4-1, B4-5, B4-15, B4-29, B5-1, B5-5, B5-15, B6-1, B6-5, B6-15, B7-1, B7-5, B7-15, B8-1, B8-5, and B8-15. An additional soil samples was collected from the surface of the former batch plant using a laboratory supplied glass jar (Batch), which was sealed, labeled, and placed within a pre-chilled ice chest for temporary storage. Each sample from the borings were hand-sawed from the acetate sample liners at specific depths, the ends were covered with Teflon tape and capped. Each soil sample was labeled and placed within a pre-chilled ice chest for temporary storage. The soil samples were delivered under chain-of-custody documentation to McCampbell Analytical, Inc. for analyses. The soil samples collected at 1 foot and the Batch sample were analyzed for CAM 17 metals, PCBs, and organochlorine pesticides using EPA Methods SW846/SW6020 and SW8081A/8082. The Batch sample and subsurface soil samples were analyzed for total petroleum

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hydrocarbons reported as gasoline (TPHg), gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE), total extractable petroleum hydrocarbons reported as diesel and motor oil (TEPHd and TEPHmo), VOCs, semi-volatile organic compounds (SVOCs), and CAM 17 metals using EPA Methods SW5035/SW8021/8015m, SW3550B/SW8015B, SW3550B/8270C, and SW3050B/SW6020. Batch was also analyzed for pH using EPA Method SW9045C.

Groundwater Sampling Activities

On November 22 and 23, 2019, ***GeoSolve, Inc.*** field geologist collected groundwater from borings B-1 through B-4 and B-6 through B-8. Once soil sampling activities were completed, 1-inch diameter screened PVC was placed within each boring by Penecore Drilling and groundwater was allowed to fill the temporary well screening. Suspended sands, also known as flowing sands, were encountered in boring B-5 and although groundwater was encountered at 24 feet, groundwater could not be collected due to sand obstruction. Groundwater was carefully removed from each boring using a small bailer and carefully decanted into laboratory supplied sampling containers, which were both unpreserved, while the 40 milliliter VOAs were preserved with hydrochloric acid. Each sampling container was carefully sealed, checked for headspace, labeled and placed within a pre-chilled ice chest for temporary storage. The groundwater samples were delivered under chain-of-custody documentation to McCampbell Analytical for analysis of TPHg, BTEX, MTBE, TEPHd and TEPHmo with silica-gel cleanup, VOCs, SVOCs, and CAM 17 metals using EPA Methods SW846/SW5030B/SW8021B/8015m, SW3510C/3630C/SW8015B, SW5030B/8260B, E625/SW8270C, E200.8.

Decontamination Activities

All external surfaces of equipment were washed with high-pressure hot water and Alconox™ and some of the drill sample rods and hydropunch rods were scrubbed. Equipment was thoroughly rinsed with potable water, which was performed before equipment was used and between each boring location. Decontamination solutions were accumulated and containerized in 55-gallon DOT-rated drums for further characterization and disposal.

Equipment, or portions of equipment, which are water resistant were scrubbed with a solution of Alconox™ and distilled water. Equipment was rinsed with potable water followed by a rinse with distilled water. Discarded decontamination solutions were accumulated and containerized in 55-gallon DOT-rated drums, which were labeled, and removed from the site.

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Field Results

Soil Description

Soil materials encountered within borings B-1 through B-8 included shallow base rock (fill), which was underlain by dark brown fine to medium sand from 1 foot bgs to approximately 18 feet to 20 feet bgs, which was underlain by brown silty clay from approximately 18 feet to 23 feet bgs. Alternating layers of brown silty clay to brown silty fine sand was encountered at the total explored depth of 30 feet bgs. Un-engineered fill was encountered within borings B-2 and B-3 from ground surface to five feet bgs, an included brick fragments. Reddish brown arkosic medium to coarse sand was encountered from approximately 26 feet to 27 feet bgs in borings B-5, B-7 and B-8 to the total explored depth of 30 feet bgs. Suspended fine sand was encountered within boring B-5, B-7 and B-8 and the source of the suspended or flowing sands is most likely the arkosic sand unit encountered at depth. No stained soil was encountered within the borings; however, a slight petroleum odor was noted in the un-engineered fill.

Groundwater was encountered at 21 feet to 26 feet bgs and stabilized at 20 feet to 25 feet bgs. Logs of borings are attached to Appendix A.

Laboratory Analytical Results

Soil-Gas Laboratory Analytical Results

The laboratory analytical results of the soil-gas samples collected from VP-6 through VP-10 are summarized on Table 1 below and the McCampbell Analytical, Inc. laboratory analytical report and chain-of-custody document are attached to Appendix B.

Table 1
Soil-Gas Sample Analytical Results
2600 Wilbur Avenue
Antioch, California
November 22 and 23, 2019

Sample ID	TCE ($\mu g/m^3$)	PCE ($\mu g/m^3$)	Other VOCs ($\mu g/m^3$)
VP1-5	<250	<250	<250
VP2-5	<250	<250	<250
VP3-5	<250	<250	<250
VP4-5	<250	<250	<250

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Sample ID	TCE ($\mu g/m^3$)	PCE ($\mu g/m^3$)	Other VOCs ($\mu g/m^3$)
VP5-5	<250	<250	<250
VP6-5	<250	<250	<250
VP7-5	<250	<250	<250
VP8-5	<250	<250	<250
ESL	*100*	*67*	*250*

TCE = Trichloroethylene
PCE = Tetrachloroethylene
< = Less than the laboratory detection limit
ESL = Environmental Screening Level (RWQCB, January 2019)

No detectable VOCs (less than 250 micrograms per cubic meter [$\mu g/m^3$]) were reported from all of the shallow soil-gas samples collected from VP1-5 through VP8-5.

Shallow Soil Sample Laboratory Analytical Results

The laboratory analytical results of soil samples B1-1 through B8-1 and Batch sample are summarized in Table 2 below and the McCampbell Analytical Results and chain-of-custody documents are attached to Appendix B. The Batch sample had a pH of 12.11, which is highly alkaline.

Table 2
Shallow Soil Sample Analytical Results
2600 Wilbur Avenue
Antioch, California
November 22 and 23, 2019

Sample ID	DDT (mg/Kg)	DDE (mg/Kg)	PCBs (mg/Kg)	Arsenic (mg/Kg)	Lead (mg/Kg)
B1-1	<1.0	<1.0	<50	2.4	4.0
B2-1	<1.0	<1.0	<50	5.7	7.6
B3-1	<1.0	<1.0	<50	6.8	9.0
B4-1	<1.0	0.013	<50	3.1	5.2
B5-1	<1.0	<1.0	<50	2.8	12
B6-1	<1.0	0.0044	<50	4.0	4.7
B7-1	<1.0	<1.0	<50	2.4	7.0
B8-1	<1.0	<1.0	<50	2.7	11
Batch	<0.001	<0.001	<0.05	9.3	12

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Sample ID	DDT (mg/Kg)	DDE (mg/Kg)	PCBs (mg/Kg)	Arsenic (mg/Kg)	Lead (mg/Kg)
ESL	*1.9*	*1.8*	*0.94*	*0.31**	*380*

mg/Kg = milligram per kilogram, equivalent to parts per million (ppm) Tetrachloroethylene
< = Less than the laboratory detection limit
ESL = Environmental Screening Level (RWQCB, January 2019)
* = Cal EPA defines background concentrations as action levels for arsenic.

Subsurface Soil Laboratory Analytical Results

The laboratory analytical results of soil samples B1-1, B1-5, B1-15, B2-1, B2-5, B2-20, B3-1, B3-5, B3-20, B4-1, B4-5, B4-15, B4-29, B5-1, B5-5, B5-15, B6-1, B6-5, B6-15, B7-1, B7-5, B7-15, B8-1, B8-5, B8-15, and Batch sample are summarized in Table 3 below and the McCampbell Analytical Results and chain-of-custody documents are attached to Appendix B.

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Table 3
Subsurface Soil Sample Analytical Results
2600 Wilbur Avenue
Antioch, California
November 22 and 23, 2019

Sample ID	TPHg (mg/Kg)	BTEX (mg/Kg)	TEPHd (mg/Kg)	TEPHmo (mg/Kg)	VOCs (mg/Kg)	SVOCs (mg/Kg)	Lead (mg/Kg)	Molybdenum (mg/Kg)
B1-5	<1.0	<0.005	<1.0	<5.0	<0.15	0.015*	3.2	1.7
B1-15	<1.0	<0.005	<1.0	<5.0	<0.15	<2.0	3.0	0.84
B2-5	<1.0	<0.005	1.2	10	<0.15	0.24*	3.6	<0.50
B2-20	<1.0	<0.005	<1.0	<5.0	<0.15	0.0064*	1.9	0.56
B3-5	<1.0	<0.005	1.3	14	<0.15	0.097*	2.4	0.59
B3-20	<1.0	<0.005	<1.0	<5.0	<0.15	0.34*	8.1	<0.50
B4-5	<1.0	<0.005	<1.0	<5.0	<0.15	0.11*	2.1	0.61
B4-15	<1.0	<0.005	<1.0	<5.0	<0.15	0.064*	2.3	<0.50
B4-29	<1.0	<0.005	<1.0	<5.0	<0.15	0.0082*	5.2	<0.50
B5-5	<1.0	<0.005	<1.0	<5.0	<0.15	2.6*	2.2	<0.50
B5-15	<1.0	<0.005	<1.0	<5.0	<0.15	1.7*	1.9	0.61
B6-5	<1.0	<0.005	1.2	<5.0	<0.15	0.0073*	2.5	<0.50
B6-15	<1.0	<0.005	<1.0	<5.0	<0.15	<2.0	2.2	<0.50
B7-5	<1.0	<0.005	2.9	62	<0.15	<2.0	11	0.80
B7-15	<1.0	<0.005	<1.0	<5.0	<0.15	0.015*	4.1	<0.50
B8-5	<1.0	<0.005	6.3	150	<0.15	<2.0	9.5	0.69
B8-15	<1.0	<0.005	<1.0	<5.0	<0.15	<2.0	2.7	0.71
Batch	<0.001	<0.001	2.8	35	<0.05	0.013*	12	5.6
ESL	*1.9*	*1.8*	*1,200*	*18,000*	*0.94*	*2*	*380*	*5,800*

mg/Kg = milligram per kilogram, equivalent to parts per million (ppm) Tetrachloroethylene

< = Less than the laboratory detection limit
ESL = Environmental Screening Level (RWQCB, January 2019)
* = Phenol was detected with an ESL of 350,000 mg/Kg for commercial development

Groundwater Laboratory Analytical Results

The laboratory analytical results of groundwater samples collected from borings B-1 through B-4 and B-5 through B-8 by ***GeoSolve, Inc.*** on November 22 and 23, 2019 are summarized on Table 4 below and the McCampbell Analytical, Inc. laboratory analytical report and chain-of-custody document are attached to Appendix B.

Table 4
Groundwater Sample Analytical Results
2600 Wilbur Avenue
Antioch, California
November 22 and 23, 2019

Sample ID	TPHg (µg/L)	BTEX (µg/L)	TEPHd (µg/L)	TEPHmo (µg/L)	VOCs (µg/L)	SVOCs[a] (µg/L)	Molybdenum (µg/L)	Selenium (µg/L)
B-1	<50	5.7*	<50	520	5.0*	*See Table 5*	**200**	0.85
B-2	<50	8.1*	<50	270	6.6*	*See Table 5*	**120**	1.7
B-3	<50	<0.5	<50	<250	<0.5	*See Table 5*	61	1.0
B-4	<50	<0.5	<50	<250	<0.5	*See Table 5*	68	<0.50
B-6	<50	<0.5	<50	<250	<0.5	*See Table 5*	69	0.87
B-7	<50	<0.5	<50	<250	<0.5	*See Table 5*	47	1.2
B-8	<50	<0.5	<50	<250	<0.5	*See Table 5*	90	1.0
MCL	*760*	*30*	*200*	---	*5*	---	*100*	*50*

MEK = 2-Butanone
TBA = t-Butyl alcohol
µg/L = micrograms per liter, equivalent to parts per billion (ppb)
< = less than laboratory reporting limit
MCL = Maximum contaminant level
* = total xylenes and ethylbenzene were detected
a = SVOCs are listed on Table 5

TPHg was not detected and very low concentrations of ethylbenzene and total xylenes were detected well below the maximum contaminant level (MCL) of 30 micrograms per liter (µg/L) in groundwater samples B-1 an B-2. BTEX was not detected in any other groundwater sample analyzed. TEPHd was not detected in any groundwater sample analyzed and TEPHmo was mostly not detected and detected at very low concentrations in groundwater samples B-1 and B-2 at 520 µg/L and 270 µg/L, respectively. There's no MCL for TEPHmo. VOCs were mostly not detected, with very low concentrations of ethylbenzene and total xylenes in groundwater samples B-1 and B-2 below the MCLs. Metals were detected within background concentrations; however, slightly

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elevated concentrations of molybdenum were detected above the MCL of 100 µg/L in groundwater samples B-1 and B-2 at 200 µg/L and 120 µg/L, respectively. Detected SVOCs are shown on Table 5 below.

Table 5
Groundwater Sample Analytical Results - SVOCs
2600 Wilbur Avenue
Antioch, California
November 22 and 23, 2019

Sample ID	Anthracene (µg/L)	Benzo(a) anthracene (µg/L)	Di-n-butyl Phthalate (µg/L)	Diethyl Phthalate (µg/L)	Naphthalene (µg/L)	Phenol (µg/L)	2,6-Dinitrotoluene (µg/L)	Benzoic Acid (µg/L)
B-1	0.017	<0.022	0.14	0.24	0.056	0.061	0.056	<5.5
B-2	0.096	**0.022**	0.071	0.13	0.066	0.088	<0.011	<5.5
B-3	0.18	<0.022	0.20	0.13	<0.011	0.37	<0.11	<5.5
B-4	<0.011	<0.022	<0.022	0.62	<0.011	1.2	<0.11	<5.5
B-6	0.046	<0.022	1.9	0.73	<0.011	0.91	<0.11	<5.5
B-7	0.50	<0.5	<50	0.20	<0.011	0.097	0.11	6.5
B-8	0.043	<0.022	0.064	0.05	<0.011	<0.022	<0.11	<5.5
MCL	*1,800*	*0.017*	---	*15,000*	*0.17*	*4,200*	---	---

µg/L = micrograms per liter, equivalent to parts per billion (ppb)
< = less than laboratory reporting limit
MCL = Maximum contaminant level

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DISCUSSION

PCBs were not detected in any shallow soil sample analyzed form the site and organochlorine pesticides were mostly not detected in the shallow soil samples collected at 1 foot bgs, with the exception of DDE, which was detected at 0.013 mg/Kg and 0.0044 mg/Kg in soil samples B4-1 and B6-1 and are below the Environmental Screening Level (ESL) for commercial development of 1.8 mg/Kg (California Regional Water Quality Control Board – Region 2, January 2019). Arsenic and lead and the other CAM 17 metals were detected within background concentrations in the shallow soil and subsurface soil samples. No elevated concentrations of VOCs were detected in soil-gas, subsurface soil and/or groundwater beneath the subject site. Metals in groundwater were mostly detected at background concentrations, with the exception of molybdenum, which was detected slightly over the MCL for drinking water of 100 µg/L in borings B-1 and B-2 at 200 µg/L and 120 µg/L, respectively. These slightly elevated concentrations are most likely from weathered granite within the dune sand beneath the site.

Phenol was the most detected SVOC in the subsurface soil and groundwater beneath the site and is most likely from the former oil underground storage tank (UST) wrapping and/or contents. These SVOCs detected in soil are below the ESLs for commercial development. All SVOCs, with the exception of Benzo(a)anthracene, a poly-aromatic hydrocarbon (PAH), were detected below the MCLs for drinking water. Benzo(a)anthracene was detected slightly above the MCL for drinking water of 0.017 µg/L at 0.022 µg/L. However, groundwater is not potable beneath the subject site and will not be a risk to surface operations.

CONCLUSIONS

Based on the findings and results presented within this Phase II ESA, ***GeoSolve, Inc***. concludes the following:

- Benzo(a)anthracene and molybdenum were the only two chemical constituents detected above ESLs at the site, and were detected above the ESLs for commercial development in groundwater. However, groundwater is not potable, and these slightly elevated chemicals do not pose a risk to ground surface operations.

- VOCs were not detected within the shallow soil-gas at 5 feet bgs, suggesting vapor-intrusion of VOCs is not a concern at the subject site. VOCs were not detected in subsurface soil and were either not detected or detected at very low concentrations in groundwater. Low concentrations of SVOCs detected mostly as Phenol were detected in subsurface soil and various other SVOCs were detected in groundwater, which are most likely associated with the former oil UST wrapping and/or oil, which migrated to subsurface soil and groundwater. These SVOCs do not pose a risk to the subject site.

- PCBs were not detected, and most organochlorine pesticides were not detected in the shallow soil at 1-foot bgs. DDE was the only pesticide detected in soil samples B4-1 and B6-1 at concentrations well below the commercial ESL of 1.8 mg/Kg. Metals were detected at background concentrations in shallow and subsurface soil. Arsenic was detected within background concentrations which is the cleanup goal for development according to the DTSC. The former batch plant did not contain any elevated chemical constituents, but was determined to be very alkaline with a pH of 12.11.

- Flowing sands encountered within borings B-5, B-7 and B-8 may indicate liquefiable conditions during a strong earthquake and should be evaluated by a licensed Geotechnical Engineer.

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RECOMMENDATIONS

Based on the conclusions presented above, ***GeoSolve, Inc.*** recommends further environmental work at this subject site is **not warranted.**

LIMITATIONS

This report has been prepared for the specific application to this project in a manner consistent with the level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in this area. This report contains information reported to ***GeoSolve, Inc.***, by other sources, accordingly, and errors or omissions may be present that ***GeoSolve, Inc.*** cannot be responsible for. The findings of this report apply to the present condition of the subject property only (as of November 22 and 23, 2019); the opinions expressed herein are subject to revision in light of new information relevant to the site and/or in its immediate surroundings.

The content and conclusions provided by ***GeoSolve, Inc.*** in this Phase II ESA are based on information collected during our assessment, which may include, but not be limited to review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. ***GeoSolve, Inc.*** is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

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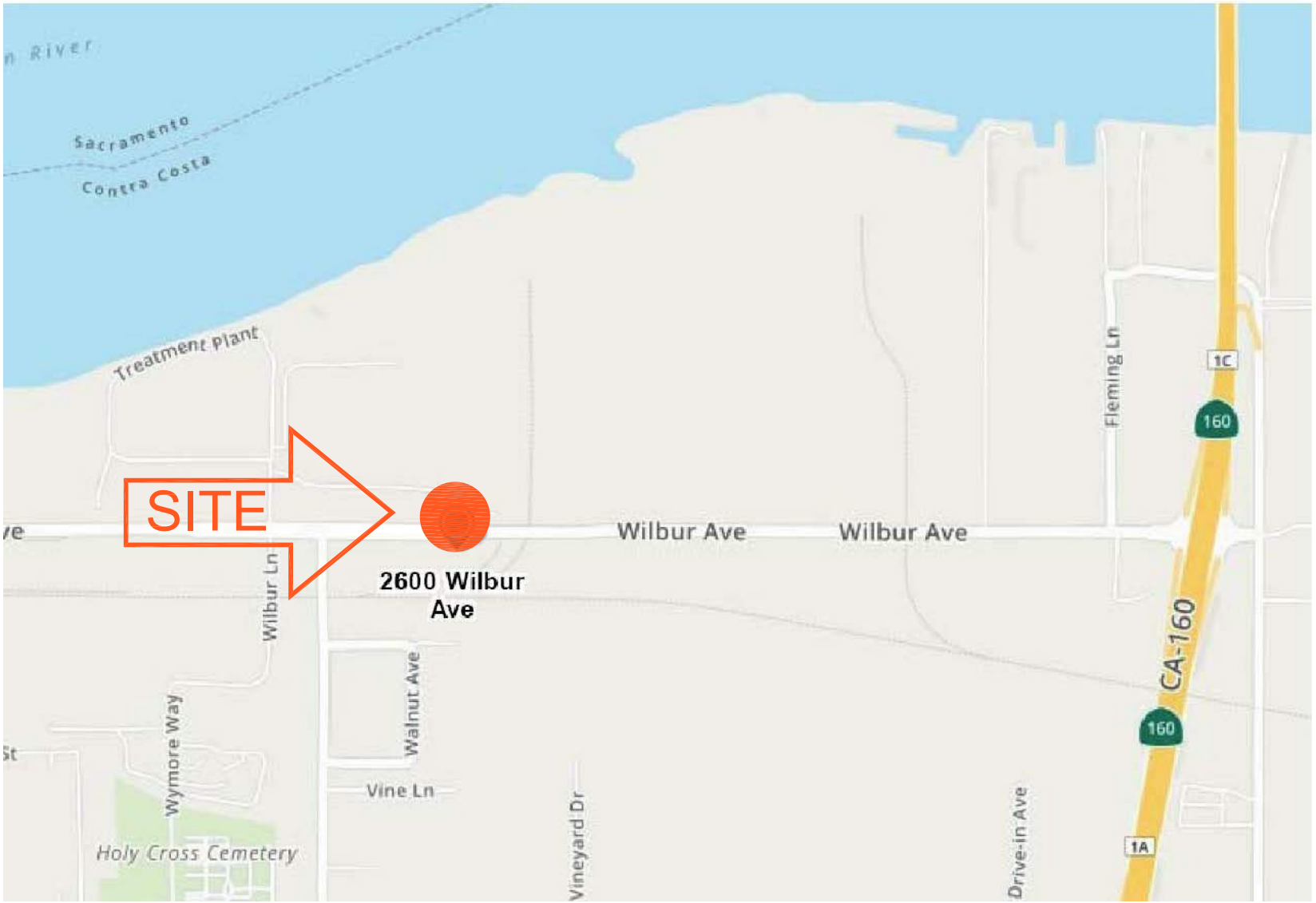

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VICINITY MAP

GARAVENTA PROPERTIES
PHASE II - ENVIRONMENTAL SITE ASSESSMENT
2600 WILBUR AVENUE
ANTIOCH, CALIFORNIA

Project No.	Drawn by:
2019-26	GC
Scale:	Date:
NTS	12/2019

Figure No.
1

Appendix F PRELIMINARY STORMWATER CONTROL PLAN

STORMWATER CONTROL PLAN

MT. DIABLO RESOURCE RECOVERY MAINTENANCE BUILDING 2600 WILBUR AVE

CITY OF ANTIOCH, CONTRA COSTA COUNTY CALIFORNIA
APN 051-032-009

May 8, 2020

Prepared For:

Mt. Diablo Resource Recovery
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APPENDIX

Appendix A – Sizing Calculations
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I. PROJECT DATA

Table 1 – Project Data

Project Name / Number	2600 Wilbur Ave
Application Submittal Date	February 21, 2020
Project Location	2600 Wilbur Ave Antioch, CA 94509
Name of Developer	Mt Diablo Resource Recovery
Project Type and Description	Development of an existing site to construct a truck maintenance building and associated roadways and parking areas
Project Watershed	East County Delta Drainages
Total Project Site Area (Acres)	10.3 ±Acres
Total Area of Land Disturbed (Acres)	8.5 ±Acres
Total New Impervious Surface Area (SF)	7,924 SF
Total Replaced Impervious Surface Area	192,445 SF
Total Pre-Project Impervious Surface Area	202,177 SF
Total Post-Project Impervious Surface Area	210,101 SF
50% Rule*	Apply
Project Density	N/A
Applicable Special Project Categories	None
Percent LID and Non-LID Treatment	100% LID
HM Compliance	Exempted – project drains to pipes or hardened channels that extend continuously to the Delta

II. SETTING

A. Project Location and Description

This project is located in Antioch California (APN 051-032-009) at 2600 Wilbur Avenue as shown in Figure 1 – Vicinity Map. The proposed project develops 10.3 ±acres of an existing site (8.5 ±acres total disturbed area) that is currently mostly covered in base rock/gravel with sparse vegetation. The project will ultimately construct a truck maintenance building along with some drive aisles, parking, walkways and landscape areas. The project has been designed to integrate stormwater management measures (bioretention areas).

The project will impact more than 50% of the site, therefore stormwater treatment requirements will be implemented throughout the entire proposed project. The location of the project is such that it drains to a hardened channel that directly and continuously drains to the Delta (San Joaquin River), and the site is therefore exempted from Hydromodification Management (HM) requirements. Accordingly, the project has been designed to integrate stormwater management measures (bioretention facilities) that provide treatment only.

B. Existing Site Features and Conditions

The existing site is undeveloped and includes some sparse vegetation and there are no trees within the limit of work. There is an existing building on the site that will remain. The majority of the site's surface is made of existing old asphalt/concrete pavement and compacted aggregate base rock/gravel. Where vegetation is present, it is largely weeds that appear to be cleared seasonally or flattened from being driven over. The main access point to the site is located off Wilbur Avenue and there is an existing chain link fence around the perimeter of the project boundary. See Figure 2 – Site Aerial.

The existing site sits on a relatively flat area generally sloping from west to east. At the western property line, there is a moderate slope bank that drains to the northeast corner of the site, where an inlet captures the majority of the runoff from the site. This inlet is connected to an existing 42"

storm drain pipe that conveys water from the site and upstream areas directly to the north toward the San Joaquin River Delta.

The overall site is part of the moderate climate of the San Francisco Bay Area Region. Annual temperature patterns are typical of the Suisun Bay in the East Bay region. Precipitation is evenly distributed throughout the fall, winter and spring but is very low in the summer. Moisture occurring in the summer is generally from the coastal fog. Mean annual precipitation is approximately 12.6 inches at the site.

The site is surrounded by Wilbur Avenue to the north, the Atchinson, Topeka & Santa Fe Railroad to the south, and existing industrial/commercial properties to the east and west. There are no known geologic features that significantly impact the overall site.

The overall site is within the existing FEMA Flood Zone X (i.e., an area that is determined to be outside the 100- and 500-year floodplains), areas determined to be outside the floodplain. These areas are depicted on the FEMA Flood Insurance Rate Map Community Panels 06013C0144G.

See Table 1 for a summary of the project data.

C. Compliance with Municipal Regional Permit (MRP) C.3 Guidelines

The proposed overall project includes the redevelopment of a previously undeveloped site while preserving a single existing building. However, due to the existing surface types and presence of old pavement/staging areas, the proposed overall project will result in only a slight increase in the amount of impervious area. Table 2 outlines the existing and proposed impervious areas.

1. The "50% Rule" For Projects on Previously Developed Sites

As stated above, the project's existing condition is an industrial site. The project will require the demolition of approximately 192,445 SF of impervious surfaces, which is 100% of the existing impervious surfaces within the project boundary except for the 9,732 SF existing building that will remain. By the "50% Rule", the entire project area must be included in the treatment measure design.

2. Treatment

Based on the "50% Rule" and size of the project, the proposed project is subject to be in compliance with the treatment requirements set forth in the MRP. Consistent with the regulations outlined in Table 1-1 of the County's C.3 Guidebook, this project is required to include treatment measures.

3. Flow Control

The site is exempted from HM requirements as it is located within a catchment area that drains to a hardened channel that extends continuously to the Bay, Delta, or a flow-controlled reservoir. Therefore flow control is not required.

Table 2 - Impervious Area Summary

	Impervious Area	
	Square Feet	**Acres**
Existing	202,177	4.6
Proposed	210,101	4.8
Difference	7,924	0.2

D. Constraints and Opportunities for Stormwater Control

The following are the site-specific underlying constraints and opportunities affecting the selection of treatment facilities for the overall project. Table 3 below illustrates the constraints and opportunities for each IMP detailed in the C.3 manual. This table was used as a guideline for the selection of the IMP facilities that area proposed for the overall site.

Table 3 – Integrated Management Practices (IMPs) Matrix

Site Features/Issues	Optimize Site Layout	Pervious Pavement	Green Roof	Disperse Runoff to Landscape	Storage for Later Use	Bioretention Facility	Flow-Thru Planter	Dry Well	Cistern + Bioretention	Bioretention + Vault
Clayey Native Soils	*X*	*X*	*X*	*X*	*X*	*X*	*X*		*X*	*X*
Roof Drainage	*X*			*X*	*X*	*X*	*X*	*X*	*X*	
Extensive Landscaping	*X*			*X*	*X*	*X*				

1. Constraints

a. *Drainage System* – The project site drainage currently sheet flows generally to the east where there is an existing storm drain pipe that conveys offsite and onsite runoff to the north toward the San Joaquin River Delta. Along the frontage and parallel to Wilbur Ave, there is an existing 24" storm drain pipe that also collects onsite and offsite runoff and directs it toward the eastern trunk main. After reviewing the hydrology maps prepared by Contra Costa County Flood Control District, it is confirmed that the site will maintain pre-project drainage patterns and is consistent with the anticipated hydrology assumed by the Flood Control District.

b. *Roof Drainage* – Green roofs will not be incorporated, and roofs will generate runoff that will need to be retained, reused or treated by an IMP.

– Conventional roofs will be used

c. *Steep Slopes* – There are no steep slopes on this site. Retaining walls are not needed to accommodate grade change as there is sufficient space to fit

slopes where needed. The steepest slopes on the site will be at the bioretention basin at the southeast corner of the site which is lower relative to street grade to allow stormwater to gravity flow into it for treatment.

d. *Land Use and Community Design* – The proposed project is consistent with the land use anticipated by the Contra Costa County Flood Control District as shown with the land use map in Appendix C. A portion of the site at the southeast corner has been reserved specifically for stormwater treatment facilities.

2. Opportunities

a. *Landscaping* – The proposed project will utilize landscape features including bioretention areas to treat and manage stormwater. Landscaping is maximized where feasible to minimize runoff from imperviousness,

Bioretention areas have been selected to meet the requirements of the MRP. Details for the stormwater treatment facilities have been included in Appendix A for reference.

III. LOW IMPACT DEVELOPMENT DESIGN STRATEGIES

A. Optimization of Site Layout

1. Limitation of the Development Envelope

The project will take advantage of a compact site design within the areas being developed. The site design will allow the space for a single large bioretention area in the southeast portion of the site.

2. Preservation of Natural Drainage Patterns

The existing natural drainage patterns on-site will be maintained with the proposed project. The proposed storm system will treat all site stormwater runoff before discharging into the existing system as depicted on the Preliminary Grading and Drainage Plan provided with the Use Permit application.

3. Setbacks from Creeks, Wetlands, and Riparian Habitats

The overall project is not adjacent to and will not impact any creeks, wetlands or riparian habitats.

4. Minimization of Imperviousness

The proposed site provides landscape areas wherever feasible. Bioretention areas are proposed to be integrated to the landscape areas to treat the stormwater runoff from this site.

5. Use of Drainage as a Design Element

There will be a single large bioretention facility integrated to the site design to treat and mitigate storm runoff within the project site. Site runoff from all impervious areas will be directed to this bioretention basin for treatment via gravity flow. The treatment facility has been strategically placed within the site to both increase the aesthetics of the development as well as maintain an efficient stormwater system.

B. Use of Permeable Pavements

Permeable pavers are not proposed in this project.

C. Dispersal of Runoff to Pervious Areas

The project's proposed Grading and Drainage Plan has been designed to capture runoff from impervious areas and direct it to an IMP area for treatment. The proposed grading and storm drainage design will allow drainage to flow into, and out of the IMP facilities by gravity flow for all locations.

D. Bioretention or Other Integrated Management Practices

Bioretention areas have been implemented as integrated management practices for this site.

IV. DOCUMENTATION OF DRAINAGE DESIGN

The following outlines the stormwater management facilities planned within project as necessary to comply with the applicable C.3 guidelines. The project's design of stormwater features balances the constraints of the site, the land use planning objectives for the site, and the MRP C.3 requirements.

The stormwater management plan's compliance with treatment requirements is described below:

A. Descriptions of Each Drainage Management Area

The project will utilize a single bioretention facility as part of the site's landscape amenities. The bioretention facility will be designed to satisfy the treatment requirements of the MRP. The Stormwater Control Plan SWCP sheet, Figure 5 depicts the proposed location of the bioretention area. The detail sheets contain specific design information for the treatment facility as provided in the Contra Costa County C.3 manual. Calculations for the individual IMP area were performed using the Contra Costa Clean Water Program Integrated Management Practices Calculator Version 1.3.1.0, the results have been provided in Appendix A for review.

Table 4 – Drainage Management Areas

IMP	DMA Number	Treatment Type	Surface Type	Treated Area (SF)
1	1	Bioretention Area	Concrete walkways, asphalt roadways, roof areas, and landscape areas	139,174 SF
2	2	Bioretention Area	Concrete walkways, asphalt roadways, roof areas, and landscape areas	107,462 SF
3	3	Bioretention Area	Concrete walkways, asphalt roadways, roof areas, and landscape areas	115,917 SF

1. Drainage Management Area Descriptions

1. Bioretention Facility (IMP 1)

DMA 1 has a total area of 143,281 square feet of which 97,882 square feet is impervious area. Stormwater from DMA 1 includes runoff from pavement, roofs, and sidewalk areas which will be conveyed by a system of curb and gutters, valley gutters, and storm drain inlets and pipes that will then discharge into a depressed bioretention area via gravity flow and via curb cuts. The bioretention area connects to the existing storm drain system to the northeast to maintain the project's pre-development drainage pattern. See Figure 4 – Proposed Conditions for additional information.

2. Bioretention Facility (IMP 2)

DMA 2 has a total area of 109,842 square feet of which 52,225 square feet is impervious area. Stormwater from DMA 2 includes runoff from pavement, roofs, and sidewalk areas which will be conveyed by a system of curb and gutters, valley gutters that will then discharge into a depressed bioretention area via gravity flow through curb cuts. The bioretention area connects to the existing storm drain system to the northeast to maintain the project's pre-development drainage pattern. See Figure 4 – Proposed Conditions for additional information.

3. Bioretention Facility (IMP 3)

DMA 3 has a total area of 118,602 square feet of which 59,994 square feet is impervious area. Stormwater from DMA 3 includes runoff from pavement, roofs,

and sidewalk areas which will be conveyed by a system of curb and gutters, valley gutters, and storm drain inlets and pipes that will then discharge into a depressed bioretention area via gravity flow and via curb cuts. The bioretention area connects to the existing storm drain system to the northeast to maintain the project's pre-development drainage pattern. See Figure 4 – Proposed Conditions for additional information.

B. Integrated Management Practices

Table 5 – IMP Design Summary

Total Project Area (ac ±)	10.3 AC
Total Developable (Disturbed) Project Area (ac ±)	8.5 AC
Mean Annual Precipitation	12.6 inches
Total Pre-Project Impervious Area (ac ±)	4.6 AC
Total Post-Project Impervious Area (ac ±)	4.8 AC
IMPs Designed For:	Treatment Only
Sizing Methodology	CCC IMP Sizing Tool
Total Bioretention Area Provided (SF)	9,172 SF

C. Tabulation and Sizing Calculations

Please refer to the sizing calculations on the following sheets created using the Contra Costa Clean Water Program IMP Sizing Tool (version 1.3.1.0).

V. SOURCE CONTROL MEASURES

A. Site Activities and Potential Sources of Pollutants

Potential sources of stormwater pollutants for the Project include:

- The dumping of pollutants into the storm drain system
- Pesticides for indoor pest control
- Pesticides, herbicides, and fertilizer for landscape maintenance
- Grease, oil, and heavy metals due to vehicles

B. Source Control Table

Table 6 – Source Control Table

Potential Source of Runoff Pollutants	Permanent Source Control BMP's	Operational Source Control BMP's
Onsite storm drain inlets	Mark all accessible onsite inlets with the words "No Dumping! Flows to Creek" or approved equivalent language. Detail location of all onsite storm drain inlets on Stormwater Control Plan Drawings.	Maintain and periodically replace inlet markings as needed. Provide stormwater pollution prevention information to new site owners, lessees, or operators. Inlets and pipes conveying stormwater to BMPs shall be inspected and maintained as part of the Project Operation and Maintenance Plan.
Need for future indoor or structural pest control	Project construction drawings shall incorporate features that discourage entry of pests.	Provide Integrated Pest Management (IPM) information to owners, lessees, and operators.
Trash Enclosures	Not applicable – there is not a trash enclosure on the site.	The property owner will manage all solid waste activities.

Potential Source of Runoff Pollutants	Permanent Source Control BMP's	Operational Source Control BMP's
Landscape/outdoor pesticide use	Final project landscape plans reflect the following: Design that minimizes need for irrigation; minimizes runoff; promotes surface infiltration where appropriate; and details the use of planting material that minimizes the amount of fertilizers and pesticides that are needed. Where landscaped areas are used to retain and detain stormwater, project landscape plans specify the use of plants that are tolerant of saturated soil conditions. Project landscape plans detail use of plantings appropriate to site soils, slopes, climate, sun, land use, air movement, ecological consistency, and plant interactions. Detail locations of stormwater treatment BMPs on Stormwater Control Plan Drawings.	Maintain landscaping using minimum or no pesticides. Provide Integrated Pest Management information to new owners, lessees and operators. See applicable BMPs in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks www.babmphandbooks.com
Roofing, gutters, and trim	Do not utilize roofing, gutter, or architectural trim materials made of copper or other unprotected metals that would leach into the storm water runoff.	

Potential Source of Runoff Pollutants	Permanent Source Control BMP's	Operational Source Control BMP's
Private Drive and Sidewalks		Owners, lessees, and operators will be encouraged to sweep sidewalks regularly to prevent the accumulation of litter and debris. Debris from pressure washing shall be collected to prevent entry into the storm drain system. Washwater containing any cleaning agent or degreaser shall be collected and discharged to the sanitary sewer and not discharged to a storm drain.
Fire Sprinkler Test Water	Provide means to drain fire sprinkler test water to sanitary sewer system.	See note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com
Air Conditioning	Air conditioner condensation shall be directed to landscaped areas or plumbed to the sanitary sewer.	

VI. STORMWATER FACILITY MAINTENANCE

A. Ownership and Responsibility for Maintenance in Perpetuity

As part of the C.3 stormwater requirements, municipalities must verify stormwater facilities function and are maintained as intended by their design. These facilities will be privately owned and maintained in their entirety.

Mt. Diablo Resource Recovery, known hereon as the property owner, shall provide a Storm Water Control Operation and Maintenance (O&M) Plan for review by the City of Antioch, and record an Operation and Maintenance Agreement prior to issuance of a building permit.

B. Summary of Maintenance Requirements

Bioretention areas require routine maintenance to prevent a loss in the rate of infiltration, ensure unobstructed flow, prevent erosion, and keep plants healthy and the engineered soil biologically active. Typical maintenance requirements of bioretention areas will include:

- Inspection of inlets for channels, exposure of soils, and other evidence of erosion.
- Replenishment of all erosion control measures necessary.
- Inspect outlets to ensure that planter has not clogged or that excessive erosion has not inhibited flow.
- Inspection of facility side slopes for evidence of erosion.
- Observe percolation in treatment areas to verify design percolation rates are met (i.e., whether a 48-hour percolation window is exceeded).
- Till or replace engineered soil in treatment areas where design percolation rates are not met.
- Examine all vegetation to insure it is healthy and dense enough to provide filtering. Replenish mulch as necessary, remove fallen leaves and debris and prune large shrubs and trees. Replace dead plants and remove noxious and invasive vegetation.
- Confirm irrigation is adequate but not excessive.

- Remove any invasive plans that might be present.
- Abate any potential vectors by insuring there are no areas where water stands longer than 48 hours following a storm. If mosquito larvae are present and persistent, contact the Contra Costa Mosquito and Vector Control District for information and advice. Mosquito larvicides shall be applied only when necessary and then, only by a licensed individual or contractor.

CONSTRUCTION PLAN C.3 CHECKLIST

Table 7 – Construction Plan C.3 Checklist

Stormwater Control Plan Page No.	IMP Description	Construction Documents Sheet #
Figure 5	IMP 1, 2 & 3 – New Construction *Bioretention Areas*	C.4

VII. CERTIFICATIONS

The selection, sizing, and preliminary design of stormwater treatment and other control measures in this plan meet the requirements of Regional Water Quality Control Board Order R2-2015-0049 and subsequent amendments.

Angelo J. Obertello, P.E. RCE# 64345	Date

FIGURE 1

Vicinity Map

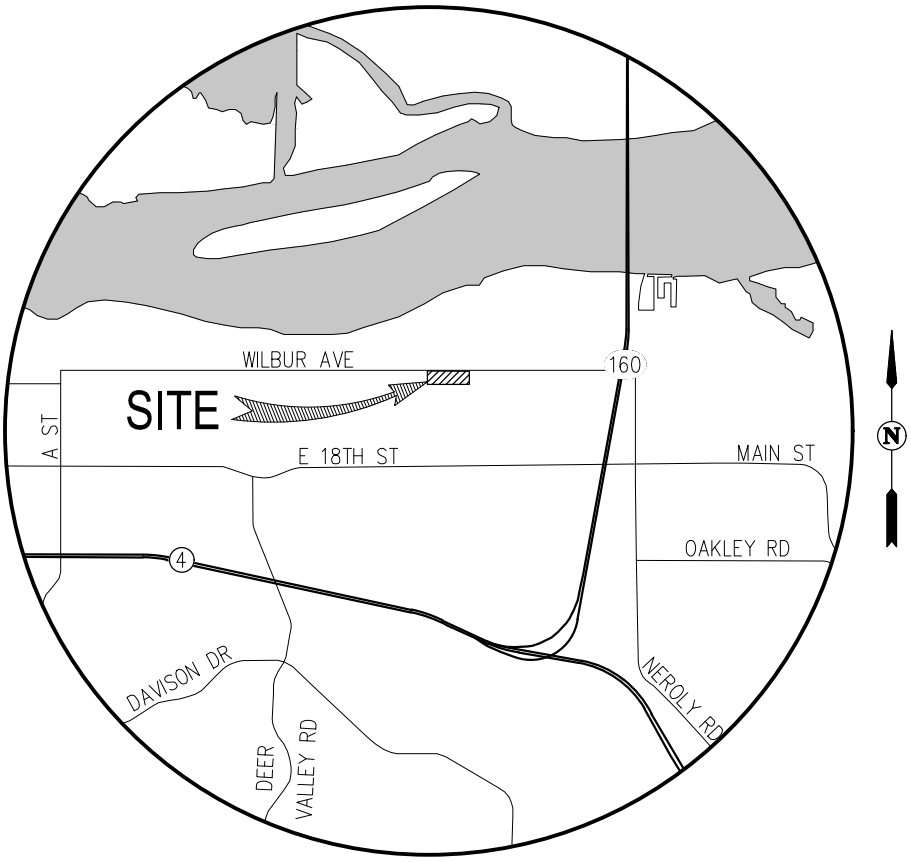

FIGURE 1
VICINITY MAP
2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

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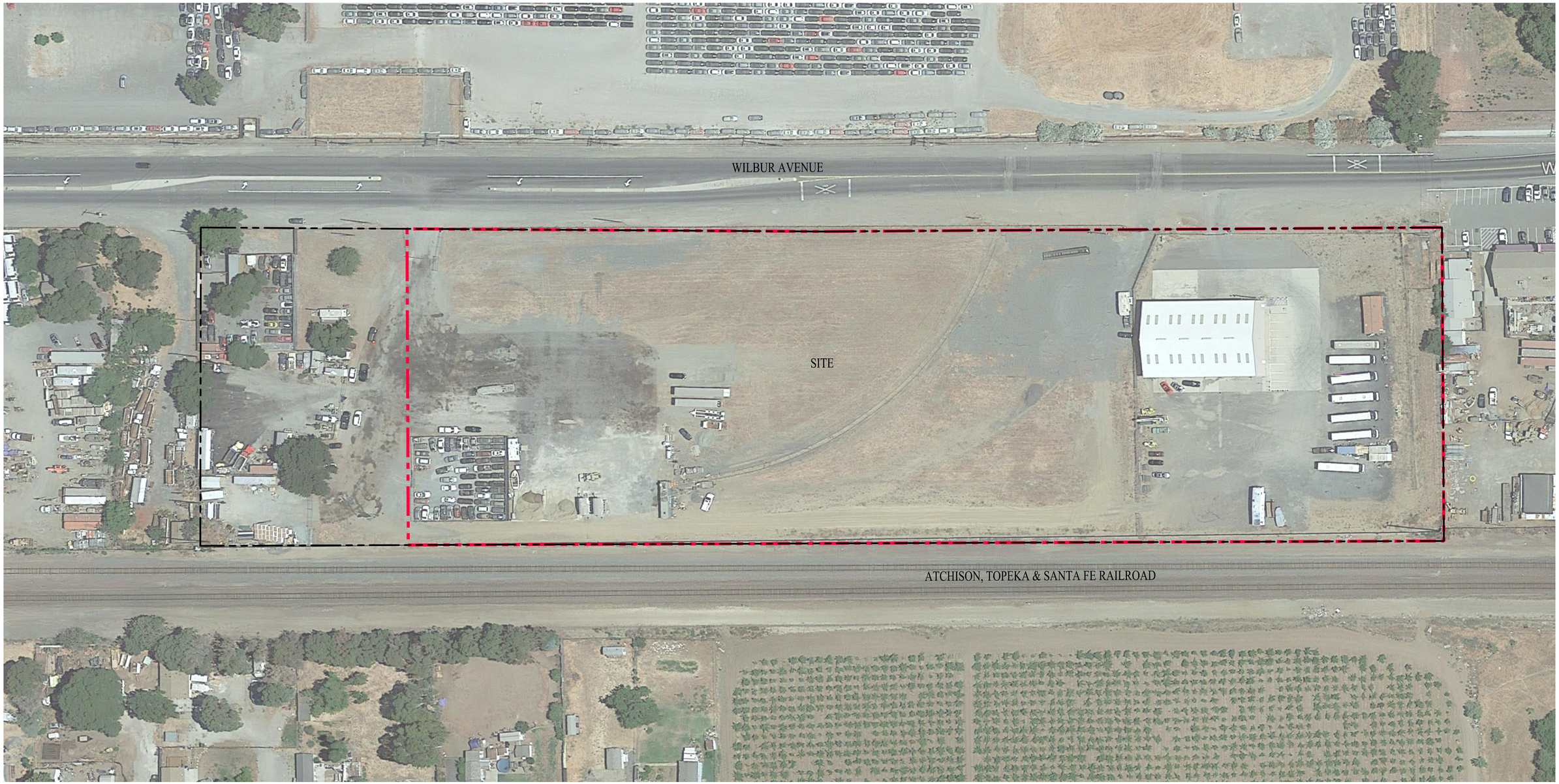
FIGURE 2

Existing Site Aerial



LEGEND

DISTURBED AREA

PROPERTY LINE

FIGURE 2
AERIAL PHOTO
2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

SCALE: 1"=50' DATE: FEBRUARY 21, 2020

0 50 100 150

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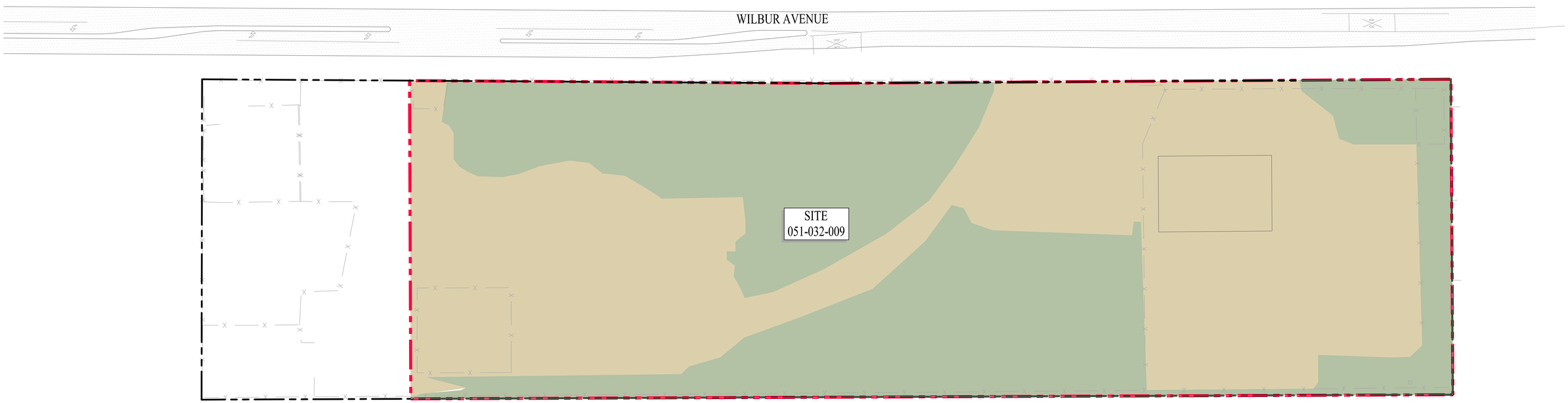
F:\3115-000\ACAD\EXHIBITS\SWCP\FIG 2 - AERIAL PHOTO.DWG

FIGURE 3

Existing Conditions Map



LEGEND

EXISTING	DESCRIPTION	ACREAGE
	PERVIOUS AREA	3.89 ±AC (45.6%)
	IMPERVIOUS PAVEMENT/ COMPACTED AB/ GRAVEL AREA	4.65 ±AC (54.4%)
	TOTAL:	8.54 ±AC

DISTURBED AREA (8.54 ±AC)

PROPERTY LINE (10.27 ±AC)

FIGURE 3
EXISTING CONDITIONS
2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

SCALE: 1"=50' DATE: FEBRUARY 21, 2020

0 50 100 150

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F:\3115-000\ACAD\EXHIBITS\SWCP FIG 3 - EXISTING CONDITIONS.DWG

FIGURE 4

Proposed Conditions Map

WILBUR AVENUE

PROPOSED BUILDING

WASH

TRASH

FUEL

EXISTING BUILDING

TRASH

ATCHISON, TOPEKA & SANTA FE RAILROAD

LEGEND

EXISTING	DESCRIPTION	ACREAGE
	LANDSCAPE AREA	3.7 ±AC (44%)
	IMPERVIOUS AREA	4.8 ±AC (56%)
	TOTAL:	8.5 ±AC

DISTURBED AREA (8.5 ±AC)

PROPERTY LINE (10.3 ±AC)

FIGURE 4
PROPOSED CONDITIONS
2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

SCALE: 1"=50' DATE: MAY 8, 2020

0 50 100 150

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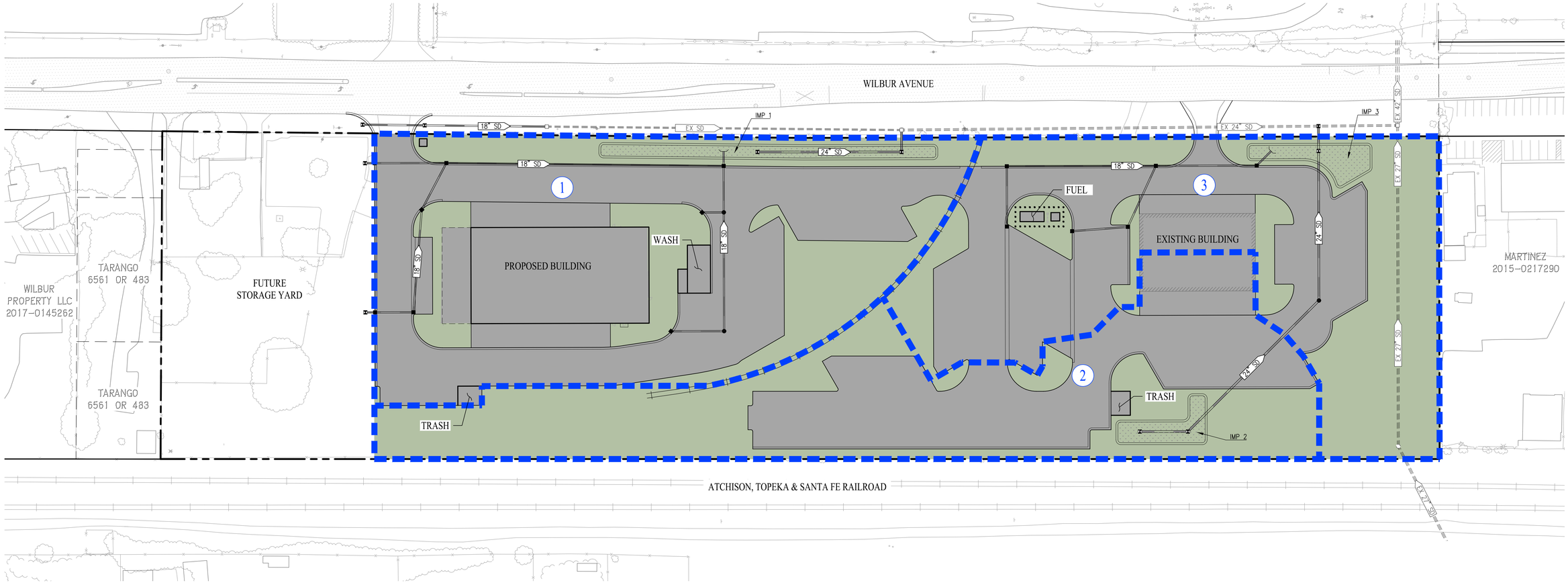
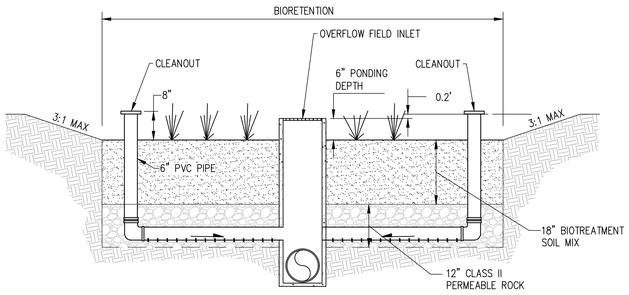
F:\3115-000\ACAD\EXHIBITS\SWCP\FIG 4 - PROPOSED CONDITIONS.DWG

FIGURE 5

Proposed Stormwater Control Plan





TYPICAL BIORETENTION BASIN DETAIL
(WITH SIDE SLOPES)

NOT TO SCALE

STORMWATER TREATMENT AREA SUMMARY

DMA	TOTAL AREA (SF)	IMPERVIOUS AREA (SF)	LANDSCAPE AREA (SF)	BIORETENTION AREA REQUIRED (SF)	BIORETENTION AREA PROVIDED (SF)
1	143,281	97,882	41,292	4,080	4,107
2	109,842	52,225	55,237	2,310	2,380
3	118,602	59,994	55,923	2,623	2,685

NOTES:

1. ALL TREATMENT MEASURE SIZING AND TECHNICAL REQUIREMENTS FOR THIS PROJECT ARE BASED UPON THE CONTRA COSTA COUNTY CLEAN WATER PROGRAM STORMWATER C.3 GUIDEBOOK (LATEST EDITION).
2. 100% OF SITE STROMWATER TO BE TREATED USING TREATMENT USING TREATMENT FEATURES SHOWN ON THIS PLAN.
3. ALL STROMWATER TREATMENT MEASURES AND SIZING SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE PENDING FINAL DESIGN.
4. THIS PROJECT IS EXEMPT FROM ANY HYDROMODIFICATION MANAGEMENT REQUIREMENTS PER CONTRA COSTA COUNTY CLEAN WATER PROGRAM C.3 GUIDEBOOK (LATEST EDITION).

LEGEND

- TOP OF CURB
- CATCH BASIN
- FIELD INLET
- 18" SD — PROPOSED STORM DRAIN
- EX 12"SD — EXISTING STORM DRAIN
- (1) — DRAINAGE MANAGEMENT AREA (DMA)
- DMA BOUNDARY
- PROPOSED BIORETENTION AREA (IMP)
- EXISTING PAVEMENT TO REMAIN
- LANDSCAPE AREA
- IMPERVIOUS AREA

PRELIMINARY STORMWATER CONTROL PLAN

2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

SCALE: 1"=50' DATE: MAY 8, 2020

0 50 100 150

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SHEET NO.
C.4
OF 4 SHEETS

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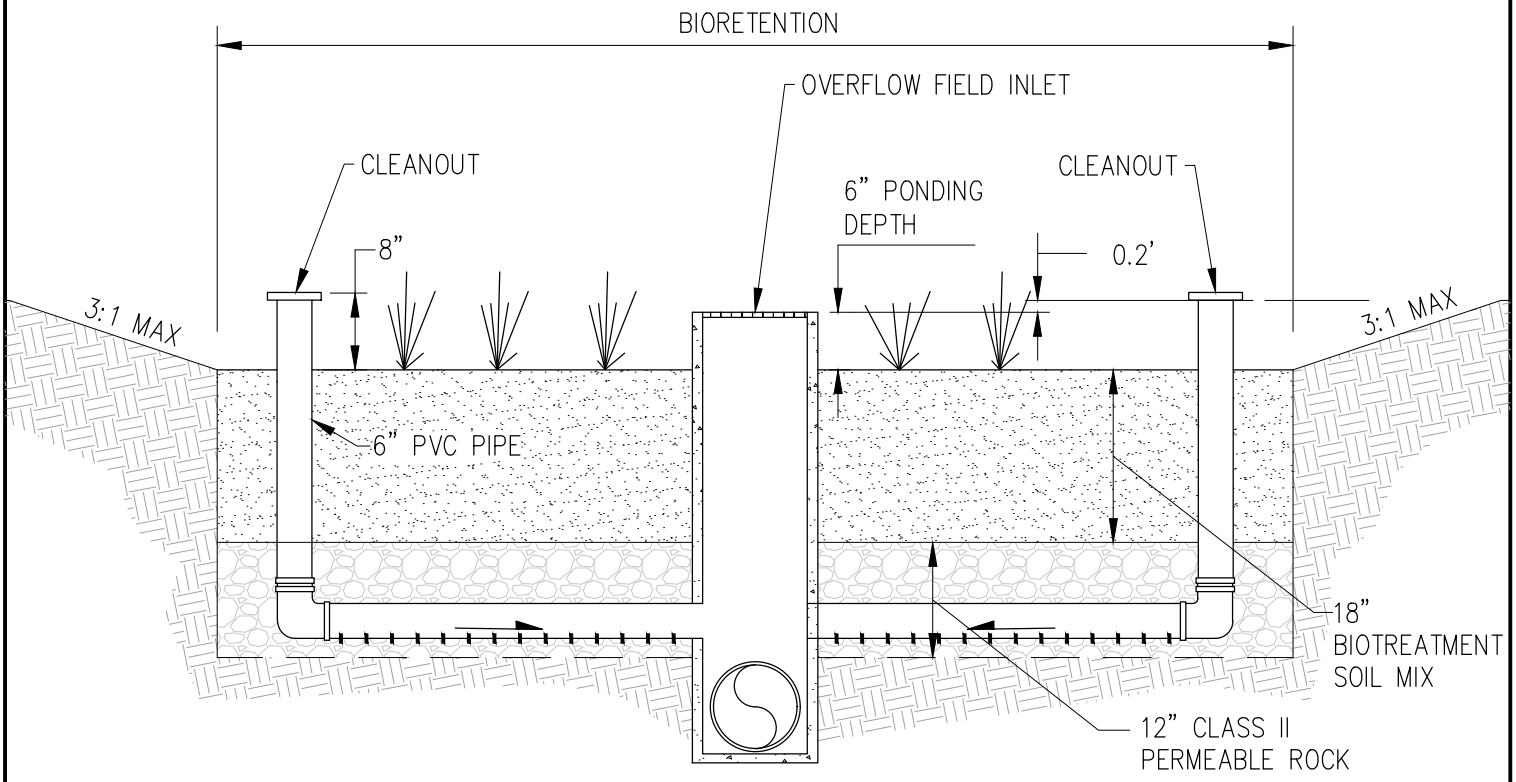
FIGURE 6

Bioretention Details



TYPICAL BIORETENTION BASIN DETAIL
(WITH SIDE SLOPES)

NOT TO SCALE

FIGURE 6
BIORETENTION DETAIL
2600 WILBUR AVENUE

CITY OF ANTIOCH CONTRA COSTA COUNTY CALIFORNIA

DATE: MAY 8, 2020 NOT TO SCALE

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APPENDIX A

Sizing Calculations

Project Name: 2600 Wilbur Avenue
Project Type: Treatment Only
APN: 051-032-009
Drainage Area: 371,725
Mean Annual Precipitation: 12.6

IV. Areas Draining to IMPs

IMP Name: IMP1
IMP Type: Bioretention Facility
Soil Group: IMP1

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA 1A	74,640	Concrete or Asphalt	1.00	74,640
DMA 1B	23,242	Conventional Roof	1.00	23,242
DMA 1C	41,292	Landscape	0.10	4,129
			Total	102,011
			Area	

IMP Sizing

IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
0.040	1.000	4,080	4,107

IMP Name: IMP2
IMP Type: Bioretention Facility
Soil Group: IMP2

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA 2A	46,859	Concrete or Asphalt	1.00	46,859
DMA 2B	5,366	Conventional Roof	1.00	5,366
DMA 2C	55,237	Landscape	0.10	5,524
			Total	57,749
			Area	

IMP Sizing

IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
0.040	1.000	2,310	2,380

IMP Name: IMP3
IMP Type: Bioretention Facility
Soil Group: IMP3

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA 3A	54,786	Concrete or Asphalt	1.00	54,786
DMA 3B	5,208	Conventional Roof	1.00	5,208
DMA 3C	55,923	Landscape	0.10	5,592

IMP Sizing

IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume

Total	65,586				
Area		0.040	1.000	2,623	2,685

Report generated on 5/7/2020 12:00:00 AM by the Contra Costa Clean Water Program IMP Sizing Tool software (version 1.3.1.0).

APPENDIX B

Contra Costa County Mean Seasonal Precipitation

122°15′ 122°00′ 121°45′

38°00′ 37°45′

Basic map reproduced by permission of the California State Automobile Association, copyright owner.

SITE
MAP = 12.6

ISOHYETS SHOWN IN INCHES
ISOHYETS SHOWN IN MILLIMETERS

Legend
- County Boundary
- 0.50" Isohyets
- 0.25" Isohyets

SCALE
MILES 0 1 2 3 4 5 MILES
KILOMETERS 0 1 2 3 4 5 6 7 8 KILOMETERS
ONE KILOMETER = ⅝ MILE

CONTRA COSTA COUNTY
PUBLIC WORKS DEPARTMENT

CONTRA COSTA COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

MEAN SEASONAL ISOHYETS
COMPILED FROM PRECIPITATION RECORDS
1879 - 1973

DESIGNED: P. W.	CHECKED: L. H.	DRAWING NUMBER:
DRAWN: L. L. H.	DATE: 12-77	B-166

0.25" & 0.50" ISOHYETS ADDED 01-2010 BY: MB

APPENDIX C

Contra Costa County Flood Control District

Maps

STA. TO STA.	TYPE OF IMPROVEMENT	R/W
LINE A		
0+00 to 23+00	42"CP	10 Ft.
23+00 to 26+25	24"CP 27"	10 Ft.
26+25 to 27+25	24"RCP (Jacked)	10 Ft.
27+25 to 28+00	24"CP 27"	10 Ft.
LINE A-1		
0+00 to 3+30	24"CP	10 Ft.
LINE B		
0+00 to 4+00	36"CP	10 Ft.
4+00 to 9+20	30"CP	10 Ft.
9+20 to 12+20	27"CP	10 Ft.
LINE C		
0+00 to 18+50	54"CP	12 Ft.
18+50 to 28+25	60"CP	12 Ft.
28+25 to 34+85	48"CP	12 Ft.
LINE C-1		
0+00 to 9+00	36"CP	10 Ft.
9+00 to 22+00	30"CP	10 Ft.
LINE C-2		
0+00 to 5+00	36"CP	10 Ft.
LINE C-3		
0+00 to 12+05	42"CP	10 Ft.
LINE C-4		
0+00 to 18+25	36"CP	10 Ft.
18+25 to 21+55	24"CP	10 Ft.
LINE D		
0+00 to 10+80	30"CP	10 Ft.

BASIN AT ELEV. 25.5 A = 2 Ac.

Approximate vicinity in which fill is required for drainage.

Area not suitable for infiltration basin even for an interim solution for "C-C"

Note:
See Construction plans for Lines "A" and "C" on Const. Plan Rack

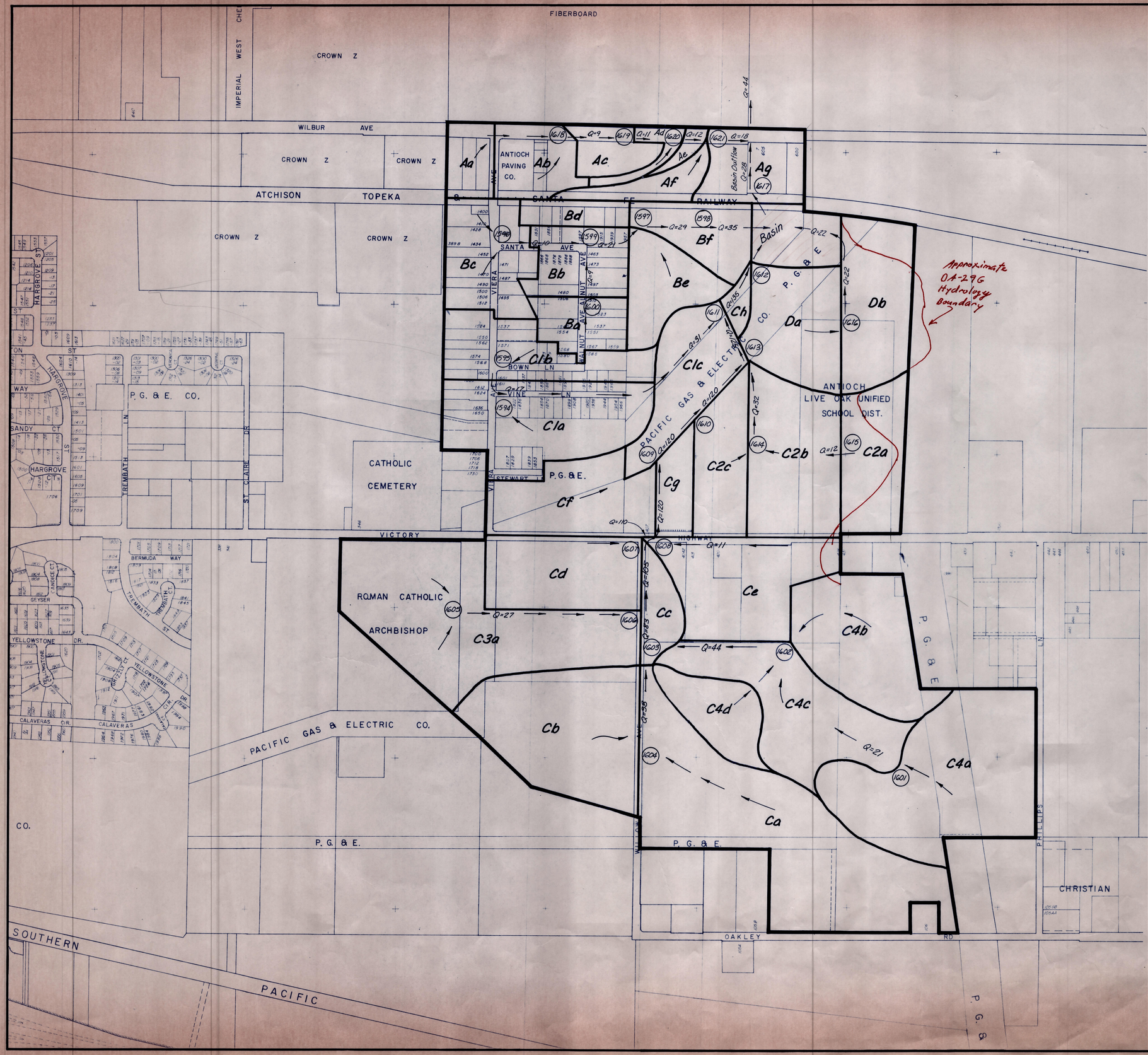
APPROVED BY: Milton Fabrick 1-26-83
DEPUTY PUBLIC WORKS DIRECTOR R.E. CERT. NO. 19811

CONTRA COSTA COUNTY
PUBLIC WORKS DEPARTMENT

CONTRA COSTA COUNTY FLOOD CONTROL and WATER CONSERVATION DISTRICT

DRAINAGE AREA 29J BOUNDARY MAP & DRAINAGE PLAN

DESIGNED: D.J.D.	CHECKED: U.H.K.	SCALE: 1"=300'
DRAWN: R.C.M.	DATE: 11-82	FLD. BK.
FILE NO. 7D-12249	SHEET 1 OF 1	



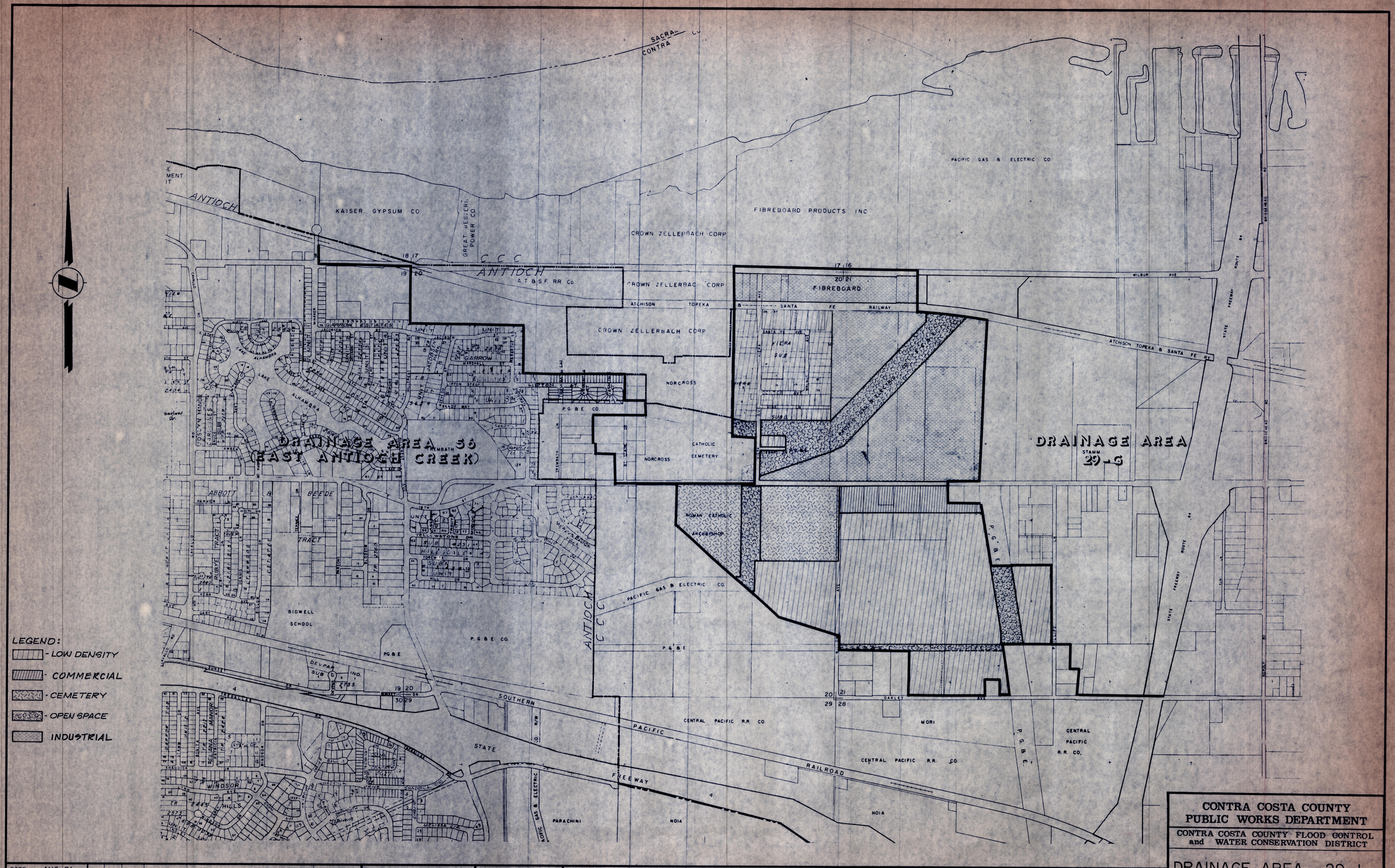
SCAN DATE: ~~1/2007~~ 1/2014
Please duplicate and submit any markups to this plan sheet. See instructions.

CONTRA COSTA COUNTY
PUBLIC WORKS DEPARTMENT

CONTRA COSTA COUNTY FLOOD CONTROL and WATER CONSERVATION DISTRICT

DRAINAGE AREA 29J
HYDROLOGY MAP

DESIGNED: D.J.D.	CHECKED: U.H.K.	SCALE: 1"=300'
DRAWN: R.C.M.	DATE: 11-82	FLD. BK.
FILE NO. 7D-12250	SHEET 1 OF 1	



DATE: AUG, 81					AGENCY	
SCALE: 1" = 500'						
DESIGNED: M.E.M.						
DRAWN: J.A.S.						
CHECKED:						
PROJ. ENGR.: RJG						
PROJ. MGR.: M.R.M.	NO.	BY	DATE	REVISIONS	BY	DATE

SUBMITTED

BY: _____

DATE: _____ R.C.E. _____

JAMES R. STEDMAN & ASSOCIATES, INC.
CIVIL ENGINEERS/SURVEYORS
375 NORTH WIGET LANE, SUITE 100
WALNUT CREEK, CALIFORNIA 94598 (415) 935-9140

SCAN DATE: ~~12/2007~~ 1/2014
Please duplicate and submit any markups to this plan sheet. See instructions.

CONTRA COSTA COUNTY PUBLIC WORKS DEPARTMENT

CONTRA COSTA COUNTY FLOOD CONTROL and WATER CONSERVATION DISTRICT

DRAINAGE AREA 29-J LAND USE MAP

DESIGNED:	CHECKED:	SCALE 1" = 500'
DRAWN:	DATE: AUG., 1981	FLD. BK.
FILE NO. ED-12224	SHEET 1 OF 1	

2017-81-01

Appendix G NOISE MODELING

Report date: 11/25/2020
Case Description: Phase 1 - Site Preparation

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Single-Family Homes Along Santa Fe Avenue	Residential	60	60	60	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	100	0
Dozer	No	40		81.7	100	0
Dozer	No	40		81.7	100	0
Tractor	No	40	84		100	0
Tractor	No	40	84		100	0
Front End Loader	No	40		79.1	100	0
Backhoe	No	40		77.6	100	0

		Calculated (dBA)	
Equipment		Lmax	Leq
Dozer		75.6	71.7
Dozer		75.6	71.7
Dozer		75.6	71.7
Tractor		78	74
Tractor		78	74
Front End Loader		73.1	69.1
Backhoe		71.5	67.6
	Total	**84.3**	**80.3**

Report date: 11/25/2020
Case Description: Phase 1 - Grading

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Single-Family Homes Along Santa Fe Avenue	Residential	60	60	60	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	100	0
Excavator	No	40		80.7	100	0
Grader	No	40	85		100	0
Dozer	No	40		81.7	100	0
Scraper	No	40		83.6	100	0
Scraper	No	40		83.6	100	0

	Calculated (dBA)	
Equipment	Lmax	Leq
Excavator	74.7	70.7
Excavator	74.7	70.7
Grader	79	75
Dozer	75.6	71.7
Scraper	77.6	73.6
Scraper	77.6	73.6
Total	**84.6**	**80.6**

Report date: 11/25/2020
Case Description: Phase 1 - Paving

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Single-Family Homes Along Santa Fe Avenue	Residential	60	60	60	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	100	0
Paver	No	50		77.2	100	0

	Calculated (dBA)	
Equipment	Lmax	Leq
Paver	71.2	68.2
Paver	71.2	68.2
Total	**74.2**	**71.2**

Report date: 11/25/2020
Case Description: Phase 2 - Site Preparation

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Single-Family Homes Along Santa Fe Avenue	Residential	60	60	60	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		100	0
Tractor	No	40	84		100	0

	Calculated (dBA)	
Equipment	Lmax	Leq
Grader	79	75
Tractor	78	74
Total	**81.5**	**77.5**

Report date: 11/25/2020
Case Description: Phase 2 - Grading

		Baselines (dBA)			---- Receptor #1 ----			
Description	Land Use	Daytime	Evening	Night				
Single-Family Homes Along Santa Fe Avenue	Residential	60	60	60				

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	100	0
Dozer	No	40		81.7	100	0
Tractor	No	40	84		100	0
Front End Loader	No	40		79.1	100	0

	Calculated (dBA)	
Equipment	Lmax	Leq
Concrete Saw	83.6	76.6
Dozer	75.6	71.7
Tractor	78	74
Front End Loader	73.1	69.1
Total	**85.4**	**79.7**

Report date: 11/25/2020
Case Description: Phase 2 - Building Construction

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Single-Family Homes Along Santa Fe Avenue	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	100	0
Forklift	No	40		79.1	100	0
Forklift	No	40		79.1	100	0
Tractor	No	40	84		100	0
Front End Loader	No	40		79.1	100	0

	Calculated (dBA)	
Equipment	Lmax	Leq
Crane	74.5	66.6
Forklift	73.1	69.1
Forklift	73.1	69.1
Tractor	78	74
Front End Loader	73.1	69.1
Total	**81.8**	**77.3**

Report date: 11/25/2020
Case Description: Phase 2 - Paving

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Single-Family Homes Along Santa Fe Avenue	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	100	0
Concrete Mixer Truck	No	40		78.8	100	0
Concrete Mixer Truck	No	40		78.8	100	0
Concrete Mixer Truck	No	40		78.8	100	0
Paver	No	50		77.2	100	0
Roller	No	20		80	100	0
Tractor	No	40	84		100	0

		Calculated (dBA)	
Equipment		Lmax	Leq
Concrete Mixer Truck		72.8	68.8
Concrete Mixer Truck		72.8	68.8
Concrete Mixer Truck		72.8	68.8
Concrete Mixer Truck		72.8	68.8
Paver		71.2	68.2
Roller		74	67
Tractor		78	74
	Total	**82.5**	**78.3**

Report date: 11/25/2020
Case Description: Phase 2 - Architectural Coating

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Single-Family Homes Along Santa Fe Avenue	Residential	60	60	60	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	100	0

		Calculated (dBA)	
Equipment		Lmax	Leq
Compressor (air)		71.6	67.7
	Total	**71.6**	**67.7**

Project Name: Mt Diablo Truck Facility
Proj. Num: 185705125
Created by: Stantec - TJF
Reviewed by: Stantec - KJ
Date: 12/04/20

Noise to Neighboring Property Line
Source Zoning: M-2 Heavy Industrial
Receiver Zoning: Residential
Ordinance Level: 60 dB(A)



74	59	60	61	61	65	68	69	65

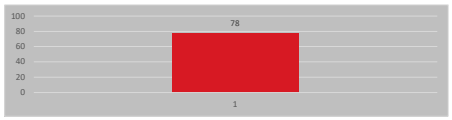
If No Barrier, Enter "0"

Equipment Noise Levels:

Tag	Model	Lw Or Meas. Dist	dBA	63	125	250	500	1000	2000	4000	8000	Elevation of source:	Elevation of barrier:	Elevation of receiver:	Horizontal distance from source to barrier:	Horizontal distance from barrier to receiver:	Horizontal distance from source to receiver:	Path-Length (DIRECT), r_d	Path-Length (BARRIER), r_b	Path-Length Difference, $r_b - r_d = d_{diff}$	Q Source	Q Receiver	Distance Atten.	Resulting Level, dBA	63	125	250	500	1k	2k	4k	8k
																									Resulting Level Per Octave Band							
Maintenance Activity SEL at 50 from 10 Buses	Phase 1 Existing Building	50	104.0	86	87	89	89	93	97	99	98	4.5	8	5	425	210	635	635.0	635.0	0.0	2	1	22	74	59	60	61	61	65	68	69	65
																								74	59	60	61	61	65	68	69	65

Project Name: Mt Diablo Truck Facility
Proj. Num: 185705125
Created by: Stantec - TJF
Reviewed by: Stantec - KJ
Date: 12/04/20

Noise to Neighboring Property Line
Source Zoning: M-2 Heavy Industrial
Receiver Zoning: Residential
Ordinance Level: 60 dB(A)



78	64	65	66	66	69	72	72	69

If No Barrier, Enter "0"

Equipment Noise Levels:

Tag	Model	Lw Or Meas. Dist	dBA	63	125	250	500	1000	2000	4000	8000	Elevation of source:	Elevation of barrier:	Elevation of receiver:	Horizontal distance from source to barrier:	Horizontal distance from barrier to receiver:	Horizontal distance from source to receiver:	Path-Length (DIRECT), r_d	Path-Length (BARRIER), r_b	Path-Length Difference, $r_b - r_d = d_{diff}$	Q Source	Q Receiver	Distance Atten.	Resulting Level, dBA	Resulting Level Per Octave Band: 63	125	250	500	1k	2k	4k	8k
Maintenance Activity SEL at 50 from 10 Buses	Phase 2 New Building	50	104.0	86	87	89	89	93	97	99	98	4.5	8	5	224	126	350	350.0	350.1	0.1	2	1	17	78	64	65	66	66	69	72	72	69
																								78	64	65	66	66	69	72	72	69

Project Name: Mt Diablo Truck Facility
Proj. Num: 185705125
Created by: Stantec - TJF
Reviewed by: Stantec - KJ
Date: 12/04/20

Noise to Neighboring Property Line
Source Zoning: M-2 Heavy Industrial
Receiver Zoning: Residential
Ordinance Level: 60 dB(A)



63	53	56	57	60	60	55	46	36

If No Barrier, Enter "0"

Equipment Noise Levels:

Tag	Model	Lw Or Meas. Dist	dBA	63	125	250	500	1000	2000	4000	8000	Elevation of source:	Elevation of barrier:	Elevation of receiver:	Horizontal distance from source to barrier:	Horizontal distance from barrier to receiver:	Horizontal distance from source to receiver:	Path-Length (DIRECT), r_d	Path-Length (BARRIER), r_b	Path-Length Difference, $r_b - r_d = d_{diff}$	Q Source	Q Receiver	Distance Atten.	Resulting Level, dBA	Resulting Level Per Octave Band: 63	125	250	500	1k	2k	4k	8k
Combined Lp from 5 Pickup Trucks and 5 Waste/Recycle Trucks		100	75.8	60	64	66	70	72	69	63	53	4.5	8	5	30	100	130	130.0	130.2	0.2	2	1	2	63	53	56	57	60	60	55	46	36
																								63	53	56	57	60	60	55	46	36

Appendix H TRAFFIC MEMORANDUM

Stantec

Memo

To:	Alexis Morris City of Antioch	From:	Daryl Zerfass and Maria Morris Stantec
File:	185705125	Date:	December 16, 2020

Reference: Mt. Diablo Resource Recovery Truck Maintenance Facility Project LOS Traffic Analysis Screening and VMT Analysis Screening

Stantec Consulting Service Inc. (Stantec) has prepared a screening memo for the Mt. Diablo Resource Recovery Maintenance Facility (Project) located at 2600 Wilbur Avenue in the City of Antioch, California. The Project proposes to construct a truck maintenance facility on a 10.28-acre site. This memorandum summarizes the findings of a preliminary traffic analysis screening and VMT analysis screening.

Project Description

The Project site is partially developed with a 9,730 square foot (s.f.) metal warehouse building and approximately 10,000 s.f. of paved surface parking. The proposed Project would replace the existing 9,730 s.f. metal warehouse building with a new 18,000 s.f. warehouse building. A future phase may include a second warehouse building of up to 18,500 s.f. The Project would use the existing warehouse building until the new warehouse is constructed. Other proposed structures and improvements would be constructed in a total of three phases. **Figure 1** shows the Project Location Map. **Figure 2** shows the Project's Site Plan.

Methodology

Level of Service (LOS) Traffic Analysis Project Screening

The City of Antioch requires that a LOS traffic analysis be conducted for projects generating 50 or more peak hour trips. The Project's trip generation is estimated using a combination of the Project's anticipated number of employees, employee shifts, and number of trucks, as well as by using trip rates from the Institute of Transportation Engineers (ITE) trip generation handbook. If the Project is found to generate more than 50 peak hour trips, a LOS traffic analysis is typically required.

VMT Impact Analysis Project Screening

The VMT analysis screening presented below complies with the updated California Environmental Quality Act (CEQA) guidelines that incorporates the requirements of Senate Bill 743 (SB 743). Generally, SB 743 moves away from using delay-based level of service (LOS) as the metric for identifying a project's significant impact to instead use VMT.

SB 743 requires the Governor's Office of Planning and Research (OPR) to establish recommendations for identifying and mitigating transportation impacts within CEQA, the document is referred to in this memorandum as OPR's Technical Advisory[1]. OPR's Technical Advisory recommends methodologies for quantifying VMT, significance thresholds for identifying a transportation impact, and screening criteria to quickly identify if a Project can be presumed to have a less than significant impact without conducting a full VMT analysis. Lead agencies are to adopt local guidelines appropriate for their jurisdiction. At the time, the

[1] Technical Advisory on Evaluating Transportation Impacts in CEQA, Governor's Office of Planning and Research, State of California, December 2018.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project LOS Traffic Analysis Screening and VMT Analysis Screening**

City of Antioch has not formally adopted VMT guidelines. In July 2020, the Contra Costa Transportation Authority (CCTA) released a draft VMT Analysis Methodology for Land Use Project in Contra Costa[2] but is in the process of developing VMT guidance. Therefore, this VMT analysis has been prepared in accordance with OPR's Technical Advisory guidance and CCTA's draft methodology.

LOS Traffic Analysis – Project Screening

The Project's trip generation is estimated using a combination of Project specific information that includes the anticipated number of employees, employee work shifts, number of trucks, and truck schedules, as well as by using trip rates from the ITE trip generation handbook.

Employees, Hours of Operation and Trip Generation

The Project would result in a total of 71 employees at the Project site consisting of 65 solid waste and recycling truck drivers and 6 truck mechanics. As shown in **Table 1**, the solid waste and recycling truck drivers would operate Monday through Friday from 4:00 AM to 2:00 PM, and on Saturday from 5:00 AM to 2:00 PM. The trucks would be parked at the Project site overnight and leave on weekday mornings to complete daily routes to pick-up and dispose of all recycling materials at the Mt. Diablo Resource Recovery's facility, which is located at 1300 Loveridge Road in the City of Pittsburg. On weekdays, trucks would leave the site between 4:00 AM and 5:00 AM and would return sometime between 11:00 AM and 2:00 PM, depending on the length of their route. On Saturdays, a nominal number of truck trips would occur. Thereafter, the trucks would return to the project site to park overnight where maintenance inspections and servicing would be completed.

Also as shown in **Table 1**, the truck mechanics would work in two shifts Monday through Friday and would also work for one shift on Saturday from 7:00 AM to 4:00 PM. The proposed facility would not operate on Sunday. Typically, all 65 trucks would receive a standard visual safety inspection by mechanics prior to the next day's route. Trucks with noted inspection discrepancies or are due for scheduled routine service would be brought into the maintenance building. It is estimated that 8 to 10 trucks would, on average, require service each day. Note that the employee information and hours of operation described above are approximate and minor differences will have a negligible effect on the findings presented here.

Table 1 Proposed Hours of Operation

Proposed Shifts	Beginning	Ending	Employees/Vehicles[1]
Proposed Truck Driver Shifts			
Monday through Friday	4:00 AM – 5:00 AM	11:00 AM – 2:00 PM	65
Saturday	5:00 AM	2:00 PM	2
Sunday	None	None	None
Proposed Truck Mechanics Shifts			
Monday through Friday	• 1st Shift: 5:00 AM	• 1st Shift: 2:00 PM	• 1st Shift: 2 employees

[2] VMT Analysis Methodology for Land Use Projects in Contra Costa, Growth Management Task Force Review Draft, Contra Costa Transportation Authority, July 9, 2020.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project LOS Traffic Analysis Screening and VMT Analysis Screening**

Proposed Shifts	Beginning	Ending	Employees/Vehicles[1]
	• 2nd Shift: 2:00 PM	• 2nd Shift: 11:00 PM	• 2nd Shift: 4 employees
Saturday	7:00 AM	4:00 PM	5 employees
Sunday	None	None	None
[1]Assumes one employee per vehicle			

Additional trips would occur during the day for various purposes, such as deliveries and visitors. Based on the size of the proposed warehouse buildings (net increase of 26,770 s.f.), and ITE trip generation rates, approximately 5 trips would occur during the AM peak hour of the adjacent roadway (typically one hour between 7:00 AM and 9:00 AM), 5 trips would occur during the PM peak hour of the adjacent roadway (typically one hour between 4:00 PM and 6:00 PM), and there would be 47 average daily trips (ADT). ITE does not have a trip generation rate for the three-hour midday period, which is estimated as 10 trips (double the highest peak hour) for the purpose of this analysis.

In addition, the proposed facility would be monitored and secured via onsite maintenance staff and an after-hours security guard. Security cameras would also be installed to monitor all traffic entering and exiting the project site, and onsite movement.

Based on the above employee and hours of operation information, the estimated trip generation is summarized in **Table 2**.

Table 2 Trip Generation Summary

	AM Project Peak Hour (4:00-5:00am)			AM Roadway Peak Hour			Midday Project 3-Hour Peak Period (11:00am-2:00pm)			PM Roadway Peak Hour			
Category	**In**	**Out**	**Total**	**In**	**Out**	**Total**	**In**	**Out**	**Total**	**In**	**Out**	**Total**	**ADT**
Trip Rate													
Warehousing (ITE 150)	na	na	na	0.13	0.04	0.17	na	na	na	0.05	0.14	0.19	1.74
Trip Generation													
Employee vehicles [1]	67	0	67	0	0	0	4	67	71	0	0	0	138
Trucks [1]	0	65	65	0	0	0	65	0	65	0	0	0	130
Visitors/Deliveries [2]	0	0	0	4	1	5	5	5	10	1	4	5	47
Total	**67**	**65**	**132**	**4**	**1**	**5**	**74**	**72**	**146**	**1**	**4**	**5**	**315**

na – not available
[1] Based on number of employees, employee shifts and truck schedule
[2] Assumes Project net 26,770 s.f. (Phase 2 = 18,000 s.f + Phase 3 = 18,500 s.f.- Existing 9,730 s.f.)

The Project's AM peak hour would occur between 4:00 AM and 5:00 AM when employees would be arriving at the Project site in their personal vehicle, then leave the Project site in a solid waste or recycling truck.

The Project's midday peak period would occur between 11:00 AM and 2:00 PM when trucks return to the Project site and employees leave in their personal vehicle. During this three-hour period, approximately 146 Project trips would occur.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project LOS Traffic Analysis Screening and VMT Analysis Screening**

There would be a nominal volume of trips that occur in the AM and PM peak hours of the adjacent roadways when off-site traffic impacts would generally occur. Specifically, based on ITE trip generation rates approximately 5 trips are anticipated for the peak hour of the adjacent roadways.

Overall, there would be an estimated 315 daily trips generated by the Project for a typical weekday. **VMT Impact Analysis – Project Screening**

Prior to undertaking a project-level VMT analysis, OPR's Technical Advisory and CCTA's draft methodology recommends applying a screening criteria. If a project satisfies one or more of the screening criteria, the Project could be presumed to have a less-than-significant impact. There are five screening criteria as shown in **Table 3**.

Table 3 Project Screening Criteria and Threshold

Category	Criteria/Screening	Threshold	Applicable to Project
CEQA Exemption	Any project that is exempt from CEQA is not required to conduct a VMT analysis.	None	No
Small Project	Small Projects can be screened out from completing a full VMT analysis.	If the Project generates less than 110 trips per day, the Project is assumed to have a less than significant impact. Projects of 10,000 square feet or less of non-residential space or 20 residential units or less, or otherwise generating less than 836 VMT per day.	No
Local-Serving Uses	Projects that consist of Local-Serving uses can be screened out from completing a full VMT analysis.	Local serving retail of less than 50,000 square feet may also be presumed to have a less than significant impact.	No
Transit Priority Area Screening	Projects within ½ mile of a major transit stop or a stop located along a high-quality transit corridor generally reduce VMT and therefore can be screened out from completing a full VMT analysis.	If the Project is within ½ mile of a major or high-quality transit stop/corridor, the Project is assumed to have a less than significant impact. The project should generally also meet the following criteria: - FAR > 0.75 - Not provide more parking than required by City - Be consistent with the regional SCS - Does not result in a net reduction in multi-family housing units - Not replace existing affordable units with a smaller number of moderate to high-income units	No
Low VMT Area Screening	Residential and employment-generating projects that are located in areas with low VMT and that are similar in character to the existing development can be screened out from	If the Project is in a low VMT area the Project is assumed to have a less than significant impact. The CCTA draft methodology defines low VMT area as: - For housing projects: Cities and unincorporated portions within CCTA's five subregions that have existing home-based VMT per capita that	Yes

	completing a full VMT analysis.	is 85% or less of the existing county-wide average - For employment-generating projects: Cities and unincorporated portions within CCTA's five subregions that have existing home-based work VMT per worker that is 85% or less of the existing regional average (regional is defined as Bay-Area)	
FAR = Floor Area Ratio SCS = Sustainable Community Strategy Sources: OPR's Technical Advisory and CCTA draft methodology			

Low VMT Area Screening

As previously shown in **Table 3**, employment-generating projects located within a low VMT generating area can be presumed to have a less-than-significant impact. Since OPR's Technical Advisory defers to lead agencies for the preparation of low-VMT area screening maps, CCTA's VMT draft methodology criteria is utilized here.

CCTA recommends that for the analysis of employment-generating projects, the cities and unincorporated portions of CCTA's five subregions with existing home-based VMT per worker that is 15% below the existing regional average are presumed to have a less-than-significant impact for any development within those areas[3]. According to CCTA, development projects may assume that the project's VMT output will be similar in nature to the existing Citywide average home-based work VMT per worker[4]. The regional area is defined as the Bay Area region.

VMT statistics were obtained from CCTA. **Table 4** summarizes the average home-based work VMT per worker for the City of Antioch and the average home-based work VMT per worker for the Bay Area region.

Table 4 Low VMT Area Summary

Analysis Metrics: Employment-Generating	**VMT**
Citywide Average Home-Based Work per Worker	10.7
Bay Area Average Home-Based Work per Worker	15.8
Bay Area Average Home-Based Work per Worker minus 15%	13.4
Is Citywide average above or below the regional average minus 15%?	Below
Is Project in a low VMT area?	Yes
Source: Contra Costa Transportation Authority staff email correspondence "Request for Contra Costa Travel Demand Model VMT Data" on 10/20/20	

[3] Page 8 from VMT Analysis Methodology for Land Use Projects in Contra Costa, Growth Management Task Force Review Draft, Contra Costa Transportation Authority, July 9, 2020
[4] Email correspondence with CCTA staff dated 10/20/2020.

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project LOS Traffic Analysis Screening and VMT Analysis Screening**

As shown in **Table 4**, the Citywide average home-based work per worker VMT of 10.7 is below the regional average home-based work per worker significance threshold of 13.4. Therefore, the Project is in one of CCTA's cities that is considered a "low VMT area" and the Project is presumed to have a less than significant impact on VMT.

Cumulative VMT Analysis Screening

The City's General Plan last underwent a comprehensive update in 2003, with an update to the Land Use Element in 2017. The Project site is zoned for M-2 Heavy Industrial District and is shown in the City's General Plan as within the Eastern Waterfront Employment Focus Area and the designated Rail-Served Industrial. The Project land use is consistent with the City of Antioch General Plan. Since the Project is consistent with the City's General Plan, the Project would also be consistent with the Plan Bay Area 2040, the long-range Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS) for the San Francisco Bay Area.

According to OPR's Technical Advisory[5] and the CCTA's draft methodology[6], when a project has a less than significant impact at the project level, the project would not have a cumulative impact. Since the Project was found to have a less than significant impact using the low VMT area screening criteria, the Project would also have a less than significant cumulative impact.

Active Transportation

The Project site is in an industrial part of the City. Currently, there are no sidewalks on both sides of Wilbur Avenue, except for a short half mile segment on the north side of Wilbur Avenue adjacent to the Project site. Pedestrians walking on Wilbur Avenue would utilize the wide shoulders. There are no designated bicycle facilities around the Project site. The Project will not block, remove, or create barriers for walking and biking.

Transit

The Eastern Contra Costa Transit Authority (ECCTA) operates fixed-route and paratransit service under Tri Delta Transit and contracts with First Transit for the operation of buses. Tri Delta provides transit service near the Project site. The nearest bus stop is located near the corner of Veira and 18th street, approximately over a half a mile away. The bus stop provides service to for routes 383, 391, and 393. The Project would not block, remove, or create barriers for transit utilization.

Conclusion

A LOS traffic analysis screening and a VMT analysis screening was conducted for the Project.

There would be a nominal volume of trips that occur in the AM and PM peak hours of the adjacent roadways when traffic impacts would generally occur. Specifically, based on ITE trip generation rates approximately 5 trips are anticipated for the peak hour of the adjacent roadways.

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[5] Page 6 from Technical Advisory on Evaluating Transportation Impacts in CEQA, Governor's Office of Planning and Research, State of California, December 2018.
[6] Page 13 from VMT Analysis Methodology for Land Use Projects in Contra Costa, Growth Management Task Force Review Draft, Contra Costa Transportation Authority, July 9, 2020

Reference: **Mt. Diablo Resource Recovery Truck Maintenance Facility Project LOS Traffic Analysis Screening and VMT Analysis Screening**

The Project would generate the most traffic during the off-peak hours. In the AM from 4:00 AM and 5:00 AM, the Project would generate 132 peak hour trips when employees would be arriving at the Project site in their personal vehicle, then leave the Project site in a solid waste or recycling truck. During a 3-hour midday peak period (between 11:00 AM and 2:00 PM) trucks would return to the Project site and employees leave in their personal vehicle generating approximately 146 Project trips. Overall, there would be an estimated 315 daily trips generated by the Project for a typical weekday.

Using guidance from OPR's Technical Advisory and CCTA's draft methodology, a VMT screening analysis was prepared for the Project. The analysis showed that the Project meets the Low VMT Area screening criteria since the Project is located in an area where the average home-based VMT per worker is below the regional average home-based VMT per worker with a 15% reduction. Therefore, the Project would have a less than significant impact on VMT.

If you have any questions on the above material, please feel free to contact Daryl or Maria to discuss.

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Figure 1

Project Location Map



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Figure 2
Site Plan