

**Phase I Environmental Site Assessment
Two Parcels on Enterprise Avenue
Hayward, California**

**October 21, 2005
001-09301-00**

Prepared By
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October 21, 2005

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Ms. Barbara McBride
Calpine Corporation
4160 Dublin Boulevard
Dublin, California 94568

Subject: Phase I Environmental Site Assessment, Two Parcels on Enterprise Avenue, Hayward, California

Dear Ms. McBride:

Attached is LFR Levine·Fricke's (LFR's) Phase I Environmental Site Assessment for two parcels of land totaling approximately 22 acres in Hayward, California. One parcel is located at 3700 Enterprise Avenue and includes the western portion of that property. The second is an unaddressed parcel located on the southwestern end of Enterprise Avenue. The conclusions presented in this report are based on the results of a reconnaissance-level site visit conducted by LFR personnel, and LFR's review of available and pertinent background information.

LFR appreciates this opportunity to provide consulting services. If you have any questions about this project or would like to discuss other issues, please call me at (510) 596-9566.

Sincerely,



Judy Gilbert
Senior Scientist

Attachment

CONTENTS

EXECUTIVE SUMMARY v

1.0 INTRODUCTION 1

 1.1 Purpose 1

 1.2 Detailed Scope of Services 1

 1.3 Significant Assumptions..... 1

 1.4 Limitations and Exceptions 2

 1.5 Special Terms and Conditions 2

 1.6 User Reliance 3

 1.7 Qualifications of Project Team..... 3

2.0 BACKGROUND 3

 2.1 Site Location and Legal Description 3

 2.2 Site and Vicinity General Characteristics 4

 2.3 Geology..... 4

 2.3.1 Surface Features..... 4

 2.3.2 Subsurface Features..... 4

 2.4 Hydrology 5

 2.4.1 Surface Water..... 5

 2.4.2 Groundwater 5

 2.5 Historical Review 5

 2.5.1 Sanborn Map Review 6

 2.5.2 Aerial Photograph Review..... 6

 2.5.3 Historical Topographic Maps 7

 2.5.4 City Directory Review 9

3.0 SITE RECONNAISSANCE..... 9

 3.1 General Site Setting..... 9

 3.2 Site Observations..... 10

 3.3 Descriptions of Other Site Improvements 11

 3.3.1 Source of Potable Water 11

3.3.2 Sewage Disposal System..... 11

3.3.3 Solid Waste Disposal 12

3.3.4 Electrical Transformers 12

3.3.5 Other On-Site Features..... 12

3.4 Previous Site Tenants or Occupants 12

3.5 Current Uses of Adjoining Properties 12

4.0 INTERVIEWS..... 13

4.1 Interview with Owner/Property Manager..... 13

4.2 Interviews with Site Occupants 13

4.3 Interviews with Local Government Officials..... 13

4.4 Interviews with Public Utilities 14

4.5 Interviews with Others 14

5.0 USER PROVIDED INFORMATION 14

5.1 Title Records 14

5.2 Environmental Liens or Activity and Use Limitations..... 14

5.3 Specialized Knowledge 14

5.4 Valuation Reduction for Environmental Issues 15

5.5 Owner, Site Manager, and Occupant Information..... 15

5.6 Reason for Performing Phase I ESA 15

5.7 Other 15

6.0 REGULATORY RECORD REVIEW 15

6.1 Regulatory Database Research..... 15

6.2 Review of Regulatory Records 17

6.3 Additional Environmental Records Sources 19

7.0 SUMMARY 20

7.1 On-Site Issues 20

7.2 Off-Site Issues 20

8.0 CONCLUSIONS AND OPINIONS 20

8.1 On Site..... 21

8.2 Off Site 21

9.0 DEVIATIONS 21

10.0 ADDITIONAL SERVICES 22

REFERENCES 23

FIGURES

- 1 Site Vicinity Map
- 2 Site Plan

APPENDICES

- A Site Photographs
- B Aerial Photographs
- C Wastewater Treatment Flow Train Schematic
- D Environmental FirstSearch Site Assessment Report, September 26, 2005
- E Analytical Data

EXECUTIVE SUMMARY

Summary

LFR Levine-Fricke (LFR) performed a Phase I Environmental Site Assessment of two parcels of land located on Enterprise Avenue in Hayward, California (“the Site”; Figure 1). One of the parcels is the western portion of the 39.86-acre property addressed as 3700 Enterprise Avenue. The other is a 1.67-acre, unaddressed parcel that adjoins the western portion of 3700 Enterprise Avenue to the south. The Site encompasses approximately 22 acres, and ownership is vested to the City of Hayward.

On Site

A review of available historical information indicates that 3700 Enterprise Avenue has been the location of the City of Hayward wastewater treatment plant since the early 1950s. Prior to that time the Site was undeveloped. The unaddressed parcel may have been used for farming prior to the 1950s. However, in recent history the parcel has been undeveloped.

The 3700 Enterprise Avenue parcel consists of the western half of the property, which is occupied by the City of Hayward wastewater treatment plant. No buildings are located in the portion of the wastewater treatment plant’s property that makes up the Site. This area is primarily unpaved, and the ground surface consists mostly of bare soil. Structures on site include the western half of an influent flow equalization basin and a sludge distribution basin, both located along the southern portion of the parcel; an effluent channel and a storm-water channel located along the western border of the parcel; and an unlined bio-solids drying area located on the northern and central portions of the parcel. Equipment such as pumps and underground utilities is located within this portion of the Site. The southern portion of the Site, which consists of the unaddressed parcel on the southwestern end of Enterprise Avenue, currently is undeveloped, occupied by shrubs and grasses, and surrounded by a chain link fence.

No aboveground storage tanks (ASTs), underground storage tanks (USTs), or hazardous materials and/or waste storage areas were observed on the Site. No potable or monitoring wells are reportedly located on the Site. Bulk containers used to store a polymer that is added to the sludge during the treatment process are stored on site in the vicinity of the sludge distribution basin. No evidence of a release of the material was observed on the ground surface in the storage area.

Off Site

According to a review of historical aerial photographs and topographic maps, the site vicinity was used primarily as agricultural lands with salt evaporation ponds present to the west, and small areas of residential development to the north until the mid-1940s.

The Hayward Motorcycle Club was located north of the Site from the mid-1940s to the late 1960s. Currently, properties within the vicinity of 3700 Enterprise Avenue include commercial office and warehouse buildings to the south and east, a pallet fabrication shop and automotive wrecking yards to the north, and a bio-solids drying area and salt ponds to the west.

An environmental database report prepared by Environmental FirstSearch, Inc. (FirstSearch) was reviewed for cases pertaining to leaking USTs and ASTs, hazardous waste sites, hazardous material use permits, and abandoned sites within the specified radii of standards established by the American Society for Testing and Materials (ASTM). The FirstSearch report identified a leaking underground storage tank (LUST) on the adjoining wastewater treatment plant property. The release of gasoline, which was noted during the removal of a 1,000-gallon UST, was reported in December 1989. The release currently has a status of “leak being confirmed.” Based on the assumed westerly direction of groundwater flow, the release could potentially impact groundwater at the Site. After reviewing the results of the FirstSearch report and other available regulatory information, LFR did not identify other specific documented hazardous materials cases that have the potential to impact soil or groundwater at the Site.

Conclusions and Opinion

On Site

The southern parcel of the Site is undeveloped and was historically used as farmland. Based on the available information reviewed as a part of this study, no recognized environmental concerns were identified for this parcel.

The northern portion of the Site has been a part of the adjoining City of Hayward wastewater treatment plant since the early 1950s and has been occupied by an equalization basin, a sludge distribution facility, a bio-solids drying area, and an effluent channel during that period. Except for a polymer that is added to the sludge during the treatment process, oil and hazardous materials are not currently used or stored on the Site. Additionally, there have been no reported releases or spills. However, given the historical use of this portion of the Site as primarily a bio-solids drying area, oil and/or hazardous materials may be present in the subsurface of the Site. Laboratory data provided for LFR’s review indicate the presence of metals, total petroleum hydrocarbons (TPH), and volatile organic compounds in the sludge and bio-solids generated at the wastewater treatment plant in 2004 and 2005. There are currently no EPA hydrocarbon limits for land application of sludge. The sludge is in compliance with the current EPA regulations. However, affected soil may be encountered upon redevelopment of the Site for uses other than the land application of sludge, and premium costs may be incurred for the disposal of the affected soil.

Off Site

At present, neighboring properties to the Site include a municipal wastewater treatment plant, commercial warehouse, and office buildings to the south and east, automotive wrecking yards and pallet fabrication facilities to the north, and a bio-solids storage area and salt ponds to the west.

An environmental database report prepared by FirstSearch was reviewed for cases pertaining to LUSTs, USTs, and ASTs, hazardous waste sites, hazardous material use permits, and abandoned sites within the specified radii of standards established by the ASTM. The database report identified a LUST at the adjoining wastewater treatment plant. A gasoline fuel release was discovered in March 1999 during tank removal operations. According to the database report, no action has yet been taken by the Responsible Party to determine the vertical and horizontal extent of the subsurface contamination, and the status is listed as “leak being confirmed.” Based on the assumed westerly groundwater flow direction, this release could impact groundwater at the Site.

According to information on file with the Alameda County Department of Environmental Health (ACDEH), which includes a Notice of Responsibility dated January 24, 1990, a second gasoline release was noted during the removal of a 1,000-gallon gasoline UST on December 12, 1989. The UST was located on the southern side of the maintenance building, which is within approximately 300 feet east of the Site. An elevated concentration of TPH was detected in a soil sample collected from the excavation following the removal of the UST. Due to the extent of the affected soil, two phases of contaminated soil excavation were conducted following the UST removal. Excavation activities were conducted on January 25, 1990 and February 8, 1990. Soil samples collected from the excavation following the February 8, 1990 excavation activities indicated the presence of detectable levels of TPH as gasoline and benzene, toluene, ethylbenzene, and xylenes (BTEX) in soil and groundwater samples collected from the excavation. No closure documentation for the release was contained in the information on file at the ACDEH. Based on the assumed westerly groundwater flow direction, this release may impact groundwater at the Site.

Based on their distance and direction from the Site and current regulatory status, none of the other facilities identified in the database report are likely to impact soil and groundwater at the Site.

In April 2005, LFR completed a limited subsurface investigation of the northern adjoining properties at 3862 and 3878 Depot Road on behalf of Calpine Corporation. The properties are occupied by auto wrecking facilities. The report indicates the presence of residual gasoline constituents in soil and groundwater at concentrations in excess of the San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels. Based on the assumed westerly groundwater flow direction, releases at the adjoining auto wrecking facilities are not expected to impact soil and groundwater at the Site.

1.0 INTRODUCTION

LFR Levine-Fricke (LFR) performed a Phase I Environmental Site Assessment (ESA) of the western portion of the 39.86-acre parcel located at 3700 Enterprise Avenue and a 1.67-acre property that adjoins the western portion of 3700 Enterprise Avenue to the south in Hayward, California (“the Site”; Figure 1). The Site encompasses a total of approximately 22 acres of land, and ownership is vested to the City of Hayward.

1.1 Purpose

Ms. Barbara McBride of Calpine Corporation (“the Client”) requested that LFR conduct a Phase I ESA of the Site. The purpose of the ESA is to identify recognized environmental conditions at the Site by evaluating the presence or likely presence of hazardous substances or petroleum products on or near the Site under conditions that indicate an existing release, a past release, or the material threat of a release into the structures at the Site or into soil, groundwater, or surface water at the Site. The ESA was performed in accordance with American Society for Testing and Materials (ASTM 2000) Standard Practice E 1527-00 for Phase I ESAs. The ESA will be based solely on available records, visual observations, and personal interviews.

1.2 Detailed Scope of Services

The scope of work for the ESA included the following activities:

- a reconnaissance-level site visit and visual observation of neighboring properties
- a review of background information on the site setting and history of site usage
- an evaluation of land use in the vicinity of the Site
- a review of regulatory records concerning the Site and surrounding area
- preparation of a report presenting our findings

1.3 Significant Assumptions

The purpose of this ESA is to assess the status of the current environmental condition of the Site and to identify the presence or likely presence of hazardous substances and/or petroleum products on or near the Site under conditions that indicate an existing release, a past release, or the material threat of a release into the ground, groundwater, or surface water at the Site. The ESA was based solely on available records, visual observations, personal interviews, and other pertinent information provided by the Client. LFR also assumes that the information provided by the Client, regulatory database, and regulatory agencies is true and reliable to the extent of our research and information reviewed.

1.4 Limitations and Exceptions

Site-specific activities performed by LFR, and information collected regarding these activities, are summarized in the following sections. The findings of this ESA are presented in Section 7. LFR's conclusions, based on the information collected as part of the ESA, are presented in Section 8.

This ESA was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by LFR and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given. To the extent that LFR relied upon any information prepared by other parties not under contract to LFR, LFR makes no representation as to the accuracy or completeness of such information.

The findings presented in this report apply solely to site conditions existing at the time when LFR's ESA was performed. It must be recognized, however, that an ESA is intended for the purpose of determining the potential for contamination through limited research and investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the Site may vary from those at the locations where data were collected. LFR's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in ESA conclusions cannot reasonably be achieved.

LFR therefore does not provide any guarantees, certifications, or warranties that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

1.5 Special Terms and Conditions

The scope of work for this ESA did not include testing of electrical equipment for the potential presence of polychlorinated biphenyls (PCBs); assessment of natural hazards, such as naturally occurring asbestos, radon gas, or methane gas; assessment of the potential presence of radionuclides; or assessment of nonchemical hazards, such as the potential for damage from earthquakes or floods, or the presence of endangered species or wildlife habitats. This ESA also did not include an extensive assessment of the environmental compliance status of the Site or of the businesses operating at the Site, or a health-based risk assessment.

1.6 User Reliance

This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared (the Client) for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

1.7 Qualifications of Project Team

Below is a summary of LFR personnel who worked on this project.

Judy A. Gilbert, Senior Scientist, has over 16 years of experience in various aspects of site assessments, subsurface investigations, and site remediation methodologies. Ms. Gilbert is responsible for managing, coordinating, and performing a variety of projects that involve the assessment and remediation of contaminated soil and groundwater. Ms. Gilbert has performed and provided peer reviews of hundreds of ESAs.

Lucas Goldstein, P.G., E.I.T., is a senior project engineer with over six years of experience managing environmental remediation and investigation projects. He has an M.S. degree in environmental engineering from McGill University and B.A. and M.A. degrees in geology from the University of California at Berkeley. His primary areas of expertise include chlorinated and petroleum hydrocarbon remediation using soil-vapor extraction, chemical oxidation, bioremediation, monitored natural attenuation, aquifer sparging, and groundwater extraction and treatment.

Mona A. McBride, Environmental Scientist II and California Registered Environmental Assessor I, has over four years of experience in various aspects of site assessments, compliance audits, and subsurface investigations. Ms. McBride is responsible for coordinating and performing a variety of projects that involve the assessment of contaminated soil and groundwater sites. Ms. McBride has performed and written 50 to 75 ESAs.

2.0 BACKGROUND

2.1 Site Location and Legal Description

The Site is located on Enterprise Avenue within a mixed light-industrial, commercial, and salt production area near the westernmost municipal limits of the City of Hayward, approximately 3.75 miles southwest of the downtown business district. The County of Alameda Assessor's office designates the portion of the Site at 3700 Enterprise Avenue as Assessor Parcel Number (APN) 439-99-2 and the southern adjoining parcel as

APN 439-99-33-2. Current ownership of the Site is vested as the City of Hayward. Photographs showing existing site conditions are included in Appendix A.

The Site is geographically located at 37.634 north latitude and -122.133 east longitude.

2.2 Site and Vicinity General Characteristics

The northern portion of the Site consists of the western half of a parcel that is occupied by the City of Hayward wastewater treatment plant (3700 Enterprise Avenue). No buildings are located in the portion of the wastewater treatment plant's property that makes up the Site. This area is primarily unpaved, and the ground surface consists mostly of bare soil. Structures on site include the western half of an influent flow equalization basin and a sludge distribution basin, both located along the southern portion of the parcel; an effluent channel and a storm-water channel located along the western border of the parcel; and an unlined bio-solids drying area located on the northern and central portions of the parcel. Equipment such as pumps and underground utilities is located within this portion of the Site. The southern portion of the Site currently is undeveloped, occupied by shrubs and grasses, and surrounded by a chain link fence.

Surrounding land use includes commercial offices/warehouse, automotive wrecking yards, light-industrial facilities, a wastewater treatment plant, and salt ponds.

2.3 Geology

2.3.1 Surface Features

According to the United States Geological Survey (USGS) Topographic Quadrangle of San Leandro, California, dated 1959 (photorevised 1980), the Site is located at an elevation of approximately 6 feet above mean sea level, based on the National Geodetic Vertical Datum of 1929. The general topography of the Site is level. Area topography slopes very gently to the west.

No physiographic features were noted on the Site. The nearest surface water is an unnamed estuarial slough situated immediately west of the Site. The slough is an inlet of San Francisco Bay, located one mile to the west of the Site.

2.3.2 Subsurface Features

The property is situated in the east-central alluvial plain of the San Francisco Bay physiographic subregion, characterized as a partially submerged structural basin situated between subparallel, northwest-trending faults (Norris and Webb 1990). Tectonic subsidence of the basin during the past two million years has resulted in the deposition of a thick layer of Quaternary alluvium up to 2,000 feet in depth, underlain by interbedded marine sandstone and shale of the Franciscan Assemblage, which was

deposited in an offshore environment during the Late Jurassic/Early Cretaceous Period (125–150 million years before present).

Surficial soils are medium- to fine-grained alluvium deposited by alluvial fan processes at the base of the adjacent foothills to the east. The soils are characterized as weakly consolidated, poorly sorted, moderately permeable, irregularly bedded clay, silt, sand, and gravel, which grade progressively from coarser alluvium near stream channels and perimeter slopes into fine-grained alluvial fan and freshwater deposits near the present shore of San Francisco Bay (Helley et al. 1979). Deposition of the upper soil zone occurred during the Late Pleistocene Epoch (11,000 to 70,000 years before present), resulting in a deep soil profile at least 150 feet in depth.

It should be noted that LFR has not drilled soil borings at the Site, and that the local and regional geologic conditions described herein are based solely upon our experience at other properties in similar geologic environments and available literature regarding the area.

In April 2005, LFR completed a Phase II study at the adjacent 3862 and 3878 Depot Road properties, located north of the Site (LFR 2005). The fieldwork was conducted in December 2004, and groundwater was encountered at the property at depths ranging from approximately 4 to 9 feet below ground surface (bgs).

2.4 Hydrology

2.4.1 Surface Water

The nearest surface water is an unnamed estuarial slough situated within approximately 500 feet northwest of the Site. The slough is an inlet of San Francisco Bay, located one mile to the west. Based on the proximity and hydrologic connections to the Site via surface runoff and potential groundwater flow, this feature may be a sensitive environmental receptor for the Site.

2.4.2 Groundwater

Site-specific hydrogeologic information was not available during this assessment. Based on the proximity of San Francisco Bay (approximately one mile west), the local surface topography, and the Phase II work LFR conducted at the adjacent 3862 and 3878 Depot Road properties, the near-surface groundwater aquifer (A-zone) is inferred to vary from approximately 5 to 10 feet bgs and to have a very low westerly gradient.

2.5 Historical Review

The historical search included reviewing aerial photographs and available historical information regarding the Site and immediate vicinity. These activities are described in the following sections.

2.5.1 Sanborn Map Review

The Sanborn Map Company of New York generated fire insurance maps for urbanized areas in the late 1800s to mid-1900s to document possible fire hazards related to the type of building structures and general usage. A Sanborn map search for the Site and vicinity was requested from FirstSearch. FirstSearch indicated that Sanborn maps do not cover the Site and vicinity.

2.5.2 Aerial Photograph Review

LFR reviewed low-altitude, black-and-white and color aerial photographs taken in 1939, 1946, 1958, 1968, 1977, 1989, and 2002 to identify areas of possible environmental concerns related to previous land use at the Site or adjacent properties. All aerial photographs were provided by FirstSearch. Copies of the aerial photographs are provided in Appendix B. The observations from the aerial photographs of the Site and immediate vicinity are described below.

1939

The 1939 aerial photograph depicts the Site as vacant farmland. The most predominant features within the site vicinity are a cluster of buildings located to the southwest of the Site, the coast of San Francisco Bay located to the west, and residential development off of Depot Road to the north. The adjacent parcels in all directions are mostly undeveloped.

1946

The Site remains vacant in 1946, with development evident to the southwest along the coast of San Francisco Bay and to the north along Depot Road. The track identified as the Hayward Motorcycle Club on the topographic maps is present, as well as three structures located to the north of the Site, south of Depot Road. The remaining lands to the east appear to be undeveloped farmlands and to the west, wetland areas, water aqueducts, and salt evaporation ponds.

1958

A portion of the City of Hayward wastewater treatment plant is located on site in 1958, with the contiguous parcel to the south appearing as vacant undeveloped land. The portion of the wastewater treatment plant on site appears to be the western end of an equalization basin, with a sludge drying area evident on the northern portion of the Site. The most predominant features within the site vicinity in 1958 include an increase in structures to the west along the evaporation pond areas, the extension of Depot Road and the Hayward Motorcycle Club to the north, and the City of Hayward wastewater treatment plant to the east. Vacant farmlands remain apparent to the southeast of the Site.

1968

The Site appears to remain the same in 1968, consisting of a section of an equalization basin and vacant lands. The site vicinity includes additional development to the north with what appears to be the expansion of the motorcycle club, parking areas, and apparent land disruption. Additional development is evident to the southeast of the Site, with remaining lands appearing the same as seen in 1958.

1977

The Site and surrounding lands remain the same as seen in 1969, with the exception of additional parking areas or automobile wrecking facilities evident to the north of the Site.

1989

The northern portion of the Site contains the western portion of an equalization basin, sediment piles, the existing plan effluent and storm-water channels, and a large sediment drying area. The southern portion of the Site appears undeveloped with a number of automobiles present. The equalization basin is divided into two distinct sections in this photograph, with the western, smaller pond present on site. The most predominant features, in addition to those present in 1977, include the appearance of two large warehouse-type structures located south of Enterprise Avenue, east of the southern portion of the Site. Additional development and land usage is evident to the southeast of the Site in lands that appeared vacant in 1958.

2002

The existing sludge distribution facility and the western half of the equalization basin are shown on the 2002 photograph. Numerous sediment piles, drying areas, and vegetated areas are also evident on the northern end of the Site. The southern portion of the Site appears undeveloped vegetated lands. The areas surrounding the Site remain mostly unchanged, with the addition of vegetated areas evident.

2.5.3 Historical Topographic Maps

Historical topographic maps were reviewed on-line for information regarding historical land usage of the Site and surrounding area. The observations from the topographic maps of the Site and immediate vicinity are described below.

1947

The Site is depicted as vacant, with the Site and vicinity labeled "Arroyo De La Alameda." Depot Road and an oval track identified as the "Hayward Motorcycle Club"

are located to the north of the Site. The entire area to the west of the Site is identified as "Salt Evaporation Ponds."

1959

The Site appears to contain the western end of an equalization basin that is part of a sewage disposal facility located directly east. A water channel extends from the western part of the Site northwestward toward the wetland area located to the west/northwest of the Site. The southern parcel of the Site is seen as vacant in 1959. The sewage disposal facility located to the east, as well as the Site, is designated on this map as a Hayward City facility. Depot Road, the Hayward Motorcycle Club, and the salt evaporators remain present as seen in 1947.

1968

The Site and site vicinity remain the same in 1968, with no new features mapped since the 1959 edition.

1973

The Site and site vicinity remain the same in 1973, with no new features mapped since the 1959 edition.

1980

The Site remains the same as seen in 1973, with the exception of a rectangular-shaped area located to the north of the equalization basin on site. The motorcycle track formerly to the north of the Site is no longer depicted. An additional residential development to the north of Depot Road is evident. The site vicinity remains consistent with that seen in 1973.

1993

The new USGS mapping format, which shows only the largest structures within a given quadrangle, has been adopted. The Site and adjacent areas to the north, east, and south are depicted with a grey shading that indicates urbanization, with only the sewage disposal facility shown. The sludge distribution facility and equalization basin are the only features shown on the Site. The area to the west of the Site is mapped as salt evaporators divided by levees.

2.5.4 City Directory Review

LFR reviewed a City Directory Abstract prepared by Environmental FirstSearch, Inc. (FirstSearch) for information regarding past site occupants and land use. The following businesses were identified on the properties on the indicated dates:

Date	3700 Enterprise Avenue
1959	Address not listed
1973	Mitoma Bros. Mulch
1978	Mitoma Bros. Mulch
1983	Delmonte Electric Dyn Construction Corp. Mitoma Bros. Mulch
1988	Mitoma Bros. Mulch
1994	Hayward City Water Plant
1999	Dorian Gerlad Roan CW Construction Co.

The wastewater treatment plant is identified as the site occupant only in the 1994 directory. Information regarding the other listings was not included in information provided by the site contacts or in municipal documents reviewed for the Site. The uses of the properties by the other listing is unknown.

As the parcel south of Enterprise Avenue has no address, a City Directory search was not conducted.

3.0 SITE RECONNAISSANCE

On September 27, 2005, Ms. Judy Gilbert and Mr. Lucas Goldstein, representing LFR, conducted a site walk of the properties located at 3700 Enterprise Avenue and the vacant parcel south of Enterprise Avenue in Hayward, California, to observe general site conditions and indications of the possible release(s) of chemicals to the subsurface. During the site reconnaissance, Ms. Gilbert and Mr. Goldstein were accompanied by Mr. Mike Higaris, Superintendent of the Department of Public Works, and Mr. Greg Shreeve, the Hayward Wastewater Treatment Plant Operations Manager.

3.1 General Site Setting

The Site is located in a mixed light-industrial, commercial office, and salt production area near the westernmost municipal limits of Hayward approximately 3.75 miles southwest of the downtown business district. Surrounding land use includes commercial

offices, automotive wrecking yards, light-industrial facilities, warehouse facilities, and salt ponds.

The Site consists of two contiguous parcels of land located in a commercial and light-industrial area of Hayward, California. The parcel addressed as 3700 Enterprise Avenue is located on the northern side of the end of Enterprise Avenue and is occupied by a portion of the City of Hayward wastewater treatment plant. The unaddressed parcel is located south of Enterprise Avenue and is undeveloped.

3.2 Site Observations

3700 Enterprise Avenue. According to information on file with the Alameda County Assessor's Office, the total area of the property at 3700 Enterprise Avenue is approximately 39.86 acres. The Site consists of the western half of the parcel that is occupied by the City of Hayward wastewater treatment plant. No buildings are located in the portion of the wastewater treatment plant property that makes up the Site. This area is primarily unpaved, and the ground surface consists mostly of bare soil.

Structures on the Site include the western half of an influent flow equalization basin and a sludge distribution basin, both located along the southern portion of the parcel; an effluent channel and a storm-water channel located along the western border of the parcel; and an unlined bio-solids drying area located on the northern and central portions of the parcel. Equipment such as pumps and underground utilities are located within this portion of the Site.

The City of Hayward operates a wastewater treatment plant on the Site and on the adjacent parcels (Figure 2). The wastewater treatment plant processes wastewater generated from residences, businesses, and industrial facilities in the City of Hayward. Eight lift stations connected with 260 miles of underground pipe transport approximately 12 million gallons per day to the wastewater treatment plant.

The wastewater treatment plant provides primary, advanced secondary treatment, and disinfection. Primary treatment consists of physical processes that remove, by flotation and/or sedimentation, a large portion of the non-dissolved constituents present in the wastewater. Advanced secondary treatment consists of biological and technological processes that convert dissolved and finely suspended solids into biomass, which is then removed by screening and/or clarification. Subsequent to the treatment process, the effluent is disinfected with chlorine, dechlorinated with sulfur dioxide, and pumped into the East Bay Dischargers Authority's (EBDA's) "super sewer" line for final disposal in the deeper water of San Francisco Bay under a National Pollutant Discharge Elimination System permit issued by the San Francisco Regional Water Quality Control Board (RWQCB). A schematic of the wastewater treatment plant's wastewater treatment flow train is presented in Appendix C.

The solids and semi-solid pollutants that are removed from the wastewater (referred to herein as "sewage sludge") are treated using anaerobic digestion. Anaerobic digestion

is accomplished within mixed, heated, and sealed-in units known as digesters. Methane gas, a by-product of the digestion process, is recovered and used in the wastewater treatment plant's cogeneration plant. The treated sewage sludge (referred to herein as "bio-solids") is dewatered and composted and disposed of off site. According to Ms. Dije Ndreu of the City of Hayward Water Pollution Source Control Department, the digesters were installed in 1952, 1961, and 1976.

The portion of the wastewater treatment plant that includes the Site is occupied by a portion of an equalization basin and the sludge distribution facility. No evidence of underground storage tanks (USTs), aboveground storage tanks (ASTs), or oil or hazardous materials/wastes storage was observed in the western portion of the wastewater treatment plant. Bulk storage containers for a liquid polymer that is added to the sludge during the treatment process were observed stored in the vicinity of the sludge distribution facility. Evidence of a release of the polymer was not observed on the ground beneath the stored containers. Subsurface pumps were observed in the vicinity of the equalization basin and sludge distribution facility. Evidence of a release of oil or hazardous materials was not observed in the vicinity of the pumps.

Underground utilities traversing the area include a 60-inch effluent pipe maintained by the EBDA, which enters the south-central portion of the Site and exits in the northwestern corner; a 48-inch effluent pipeline through the center of the Site from east to west; and underground electrical and drainage utilities.

Parcel South of Enterprise Avenue. The property is located south of Enterprise Avenue, south of the western boundary of the 3700 Enterprise Avenue parcel, and consists of approximately 1.67 acres of land. The property currently is undeveloped, occupied by shrubs and grasses, and surrounded by a chain link fence. The parcel is bordered by a warehouse building to the east and a wildlife refuge to the west.

3.3 Descriptions of Other Site Improvements

3.3.1 Source of Potable Water

Potable water for the 3700 Enterprise Avenue property is provided by Alameda County. The undeveloped parcel is not serviced by utilities.

3.3.2 Sewage Disposal System

Sewer service for the 3700 Enterprise Avenue property is provided by the City of Hayward municipal sewer. The effluent is treated at the wastewater treatment plant at 3700 Enterprise Avenue.

3.3.3 Solid Waste Disposal

Solid waste is temporarily stored on site in metal containers located at various locations on the property. This waste is removed on a regular schedule by a private disposal firm.

3.3.4 Electrical Transformers

No freestanding electrical transformers were observed within the Site.

3.3.5 Other On-Site Features

Drains located in the vicinity of the pump stations were observed. According to Mr. Shreeve, the drains discharge to the pump pit, which discharges to the primary bio-solids drying area adjoining the Site to the west. No additional on-site features beyond those presented in the preceding sections of this report were observed at the subject parcels. No evidence of underground fuel tanks, including the presence of vent pipes or fill ports, were observed at the Site during LFR's site reconnaissance.

3.4 Previous Site Tenants or Occupants

According to Mr. Higaris, the wastewater treatment plant has operated at its current location since 1952. The companies identified in the City Directories Report were not identified as former site occupants by Mr. Higaris. Two small structures possibly associated with farming activities were shown to have existed on the southern parcel in the 1940s. No other uses of this portion of the Site were identified. Before 1952, the Site and surrounding areas were used for farming.

3.5 Current Uses of Adjoining Properties

At present, surrounding property uses include the following:

- **East** – structures associated with the City of Hayward wastewater treatment plant, including office, maintenance, and mechanical buildings, settling basins, etc., and a commercial warehouse/office building located south of Enterprise Avenue
- **West** – the bio-solids drying area for the wastewater treatment plant and a wildlife refuge
- **North** – a wooden pallet fabrication shop, a lumber yard, a wrought iron fabrication shop, and auto wrecking yards
- **South** – undeveloped land and warehouse/office buildings located south of Enterprise Avenue

Limited visual observation revealed no evidence of spills or releases of hazardous materials that may impact the Site on the immediately adjacent properties. However, spills or releases of oil or hazardous materials, which may impact the Site, may have occurred at these facilities. LFR's April 2005 Limited Soil and Groundwater Sampling Report of the 3862 and 3878 Depot Road properties (LFR 2005), which included the northern adjoining auto wrecking sites, indicates the presence of residual gasoline constituents in soil and groundwater at concentrations in excess of the RWQCB Environmental Screening Levels (ESLs).

4.0 INTERVIEWS

The following people were interviewed as part of this ESA. These individuals were asked if they were aware of any environmental concerns regarding the Site. The information provided by the individuals is included below or within the appropriate section of this ESA.

4.1 Interview with Property Managers

Mr. Mike Higaris and Mr. Greg Shreeve were interviewed for this site assessment. Mr. Shreeve stated that no underground or aboveground tanks are located on the Site and he was not aware of any releases of chemicals to the surface or subsurface. Although USTs and hazardous materials are stored at the wastewater treatment facility, none are stored on the portion of the wastewater treatment plant that makes up the Site. Mr. Shreeve also indicated that no monitoring or potable wells are located on the portion of the wastewater treatment plant that includes the Site.

Ms. Dije Ndreu of the City of Hayward Water Pollution Source Control Department was interviewed regarding analytical data for sludge and effluent generated by the wastewater treatment plant, which was provided for LFR's review (see Section 6.3).

4.2 Interviews with Local Government Officials

Regional Water Quality Control Board - Region IX

According to Ms. Melinda Wong of the RWQCB, no files are available for the Site. Ms. Wong referred LFR to the City of Hayward Fire Department and the Alameda County Department of Environmental Health (ACDEH) for information regarding the Site.

Alameda County Department of Public Works

According to Mr. Larry Johmann, an Alameda County Department of Public Works representative, a permit was issued in April 2003 for the installation of two monitoring wells extending to a maximum depth of 45 feet. Mr. Johmann also stated that no

information regarding the implementation of the permit was on file. LFR requested a file review pertaining to the potential additional file information, and a response is pending.

4.3 Interviews with Public Utilities

Pacific Gas and Electric Company (PG&E) was contacted for information regarding the installation date of the service transformers adjacent to the Site, and whether the equipment contains PCB dielectric cooling oil. A PG&E service engineer informed LFR that the exact installation date of the area transformers was not readily available, but that it is PG&E's policy to follow U.S. Environmental Protection Agency (U.S. EPA) regulations prohibiting the continued use of PCB-containing transformers. The service engineer indicated that none of PG&E's transformers installed after 1980 contain PCBs above the limit of 50 parts per million, and that throughout PG&E's service area over 99 percent of PCB-containing transformers were brought to this standard after PCBs were banned in the mid-1970s.

4.4 Interviews with Others

LFR conducted no other interviews for this Phase I ESA.

5.0 USER PROVIDED INFORMATION

5.1 Title Records

Historical records indicate that the owner of the Site has been the City of Hayward since at least the 1950s, although a complete title report search and review was beyond the scope of work for this assessment.

5.2 Environmental Liens or Activity and Use Limitations

LFR was not provided with information regarding environmental liens or activity and use limitations.

5.3 Specialized Knowledge

No additional specialized knowledge, beyond that described elsewhere in this report, was provided to LFR by the Client as part of this Phase I ESA.

5.4 Owner, Site Manager, and Occupant Information

According to Alameda County Tax Assessor records, the current owner is the City of Hayward.

5.5 Reason for Performing Phase I ESA

This Phase I ESA was performed to provide appropriate inquiry into the previous and current tenant uses of the property to ascertain business environmental risk associated with acquisition of the Site.

5.6 Other

No previous environmental assessment reports of the Site were provided to LFR by the Client for this Phase I ESA. Information regarding subsurface conditions at the adjoining Depot Road properties was obtained from LFR's December 2, 2004 Phase I ESA (LFR 2004) and the April 5, 2005 Limited Subsurface Investigation reports (LFR 2005).

6.0 REGULATORY RECORD REVIEW

As part of this assessment, LFR reviewed regulatory databases and available agency files and records for the Site. Information from these sources is discussed in the following sections.

6.1 Regulatory Database Research

An environmental database report prepared by FirstSearch was reviewed for local, state, and federal listings of properties within specific distances of the Site. Regulatory database lists were reviewed for cases pertaining to leaking underground storage tanks (LUSTs), USTs and ASTs, hazardous waste sites, and abandoned sites within the specified radii of standards established by the ASTM. The information provided by FirstSearch and the apparent direction of groundwater flow were used to assist LFR in this assessment. A copy of the FirstSearch report, dated September 26, 2005, is included in Appendix D.

Site Findings

- The wastewater treatment facility is listed on the LUST database, case number 01-1650. A gasoline fuel release was discovered at this location in March 1999 during tank removal operations. No action has yet been taken by the Responsible Party to determine the vertical and horizontal extent of the subsurface contamination, and the status is listed as "leak being confirmed." The UST was located on the southern side of the maintenance building within approximately 300

feet east of the Site. The facility adjoins and is hydraulically upgradient from the Site. A release from the LUST could have potentially impacted soil and groundwater at the Site.

FirstSearch did not identify properties within the ASTM-specified radii of the Site for the following databases:

- U.S. EPA National Priority List (NPL)
- U.S. EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) List
- U.S. EPA Proposed NPL List
- CERCLIS/No Further Remedial Action Planned (NFRAP)
- Corrective Action Report (CORRACTS)
- U.S. EPA Resource Conservation and Recovery Act (RCRA) permitted treatment, storage, and disposal facilities
- U.S. EPA RCRA Large Quantity Generators
- California Annual Work Plan
- Deed Restriction Sites
- Toxic Pits Cleanup Facilities
- Federal and State Drinking Water Sources
- Toxic Release Inventory Database

U.S. EPA RCRA Small Quantity Generators

Three facilities within a one-quarter-mile radius of the Site are identified as Resource Conservation and Recovery Information System (RCRIS) Small Quantity Generators, including American Auto Wreckers at 3744 Depot Road, Doris Auto Wreckers at 3720 Depot Road, and AAA Truck Parts at 3884 Depot Road.

Inclusion of a facility on the referenced list is not necessarily an indication of an environmental problem. Additionally, the California Health and Safety Code requires all businesses that generate, handle, store, or dispose of hazardous material or waste to prepare and submit hazardous material management plans, which are generally administered by the local fire departments. Due to their regulated nature, the RCRIS, HWIS, UST, and SARA facilities are not currently considered to be an environmental risk to the Site.

Solid Waste Landfill Facilities

One facility, Larkin Tire West Inc., located at 3453 Enterprise Avenue, is listed on the Solid Waste Landfill Facilities (SWLF) database. This listing is permitted for storage of

36,000 tires on the premises. Tires are not characterized as a hazardous substance or material under the federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or the Toxic Substances Control Acts, and therefore this facility does not appear to be a recognized environmental condition for the Site as a result of the SWLF listing.

Leaking Underground Storage Tank Facilities

In addition to the Site, five LUST facilities listed in the FirstSearch report are located within a 0.5-mile radius of the Site, and all are co-listed on the Cortese database. Two of the LUST facilities have been formally closed by the lead regulatory agency after appropriate mitigation, or because there was no evidence of significant contamination. One additional facility is characterized as having affected the soil only, and therefore contaminant migration is likely to be limited to the immediate release location. The two active LUST cases within 0.5 mile of the Site are described below:

- American Auto Wreckers, Inc., 3744 Depot Road, is located 0.23 mile northwest of the Site. A gasoline fuel release was discovered at this location in July 1995 during tank removal operations. The Responsible Party is currently conducting a Preliminary Site Assessment to determine the vertical and horizontal extent of the subsurface contamination. Because the site characterization has not been completed, it cannot be determined at this time whether this release has the potential to affect nearby properties. Until this information becomes available, the case cannot be considered a recognized environmental condition for the Site.
- Forni Corp., 3600 Depot Road, is located 0.41 mile northeast of the Site. A gasoline fuel release was discovered during tank closure operations (case number 01S0253). The Responsible Party is not listed, and the status is listed as “remedial action.” Based on the distance of this property from the Site, the low groundwater gradient and presumed low transmissivity of area soils, and the hydraulic relationship to the Site, this case is unlikely to become a recognized environmental condition for the Site.

6.2 Review of Regulatory Records

Hayward Fire Department

Available information on file with the Hayward Fire Department was reviewed on September 28, 2005. The information indicates that the wastewater treatment plant operates three USTs. They include 1,000-gallon gasoline, 2,500-gallon diesel, and 1,000-gallon diesel USTs. The USTs were installed in 1999 and replace two 2,000-gallon and one 550-gallon diesel USTs, which were located next to the power generation station. The documentation noted that a release to the soil was observed during the removal of one of the 2,000-gallon USTs in March 1999. Groundwater impact was not observed. Soil samples collected from the tank excavation following the removal of the UST, associated piping, and affected soil were analyzed for total

petroleum hydrocarbons (TPH) as diesel (TPHd). Results ranged from 1.4 to 2.3 parts per million (ppm or milligrams per kilogram). The tank closure report indicated that, based on the results, no further actions were warranted.

Additional information on file with the Hayward Fire Department included a Hazardous Material Business Plan, which indicated the following materials stored at the wastewater treatment plant:

- sodium hypochlorite and sodium hydroxide in aboveground containers
- diesel in a UST
- polymer in aboveground containers
- ferric chloride solution in aboveground containers
- gasoline in USTs
- motor oil in drums
- waste oil in drums

The polymer is the only material that was observed to be stored on the Site.

Alameda County Department of Environmental Health

On October 7, 2005, LFR reviewed a file for the 3700 Enterprise Avenue parcel that was on file with the ACDEH. The information includes a Notice of Responsibility (NOR) dated January 24, 1990 for a gasoline release from a UST. The NOR indicated that the release was noted during the removal of a 1,000-gallon gasoline UST on December 12, 1989. The tank was located on the southern side of the maintenance building, which is within approximately 300 feet east of the Site. A soil sample collected from the tank excavation following the removal of the tank indicated TPH as gasoline (TPHg) in soil at a concentration of 140 ppm. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected at concentrations of 0.86 ppm, 6.6 ppm, 3.6 ppm, and 12 ppm, respectively. Affected groundwater was not noted.

A report by Water Works, Inc., entitled "Soil Sampling Report for Excavation of Hydrocarbon Contaminated Soil at Hayward Waste Treatment Plant," and dated March 5, 1990 (Water Works, Inc. 1990) indicated that there were two phases of soil excavation due to the extent of affected soil identified following the UST removal. The purpose of the excavation was to provide immediate source removal and to assess the extent of the contamination. Excavation activities were conducted on January 25, 1990 and February 8, 1990. Soil samples collected from the excavation following the February 8, 1990 excavation activities indicated the presence of TPHg in seven soil samples at concentrations ranging from 200 to 1,300 ppm; benzene from 0.9 to 61 ppm; toluene from 6.9 to 190 ppm; ethylbenzene from 1.8 to 46 ppm; and xylenes at 9.2 to 220 ppm. Analytical results for the groundwater sample collected from the excavation were TPHg at 280 ppm; benzene at 31 ppm; toluene at 31 ppm; ethylbenzene at 6 ppm; and xylenes at 28 ppm. No closure documentation for the

release was contained in the information on file at the ACDEH. Based on the assumed westerly groundwater flow direction, this release may impact groundwater at the Site.

6.3 Additional Environmental Records Sources

Radon Gas

The Site is not located in an area reported by the California Department of Health Services (DHS) as being at high risk for radon gas. According to a DHS study completed in 1993, radon concentrations in the Hayward area were low, with less than 5.5 percent of all structures statistically estimated to exceed 4.0 picoCuries per liter of air, the level at which the U.S. EPA considers radon to be unhealthful. Therefore, the potential for elevated radon levels at the Site appears to be low.

Wastewater Treatment Plant Laboratory Data

Laboratory data for sludge, effluent, and influent samples collected from the wastewater treatment plant were provided for LFR's review by the Client. The data for the sludge samples indicate the following:

- A soil sample collected from Digester #2 in June 2005 was analyzed for metals, oil and grease, TPHd, TPHg, and TPH as motor oil (TPHmo). Results indicated the presence of the metals barium, copper, and zinc at concentrations of 140, 120, and 290 ppm, respectively; oil and grease at 1,700 ppm, TPHd at 16 ppm; TPHg at 2.7 ppm, and TPHmo at 93 ppm.
- A sludge sample was analyzed in 2004 for metals, volatile organic compounds (VOCs), TPHd, TPHg, and TPHmo. Several analytes were detected, including silver, arsenic, barium, toluene, dibromofluoreomethane, bromofluorobenzene, cadmium, cobalt, chromium, copper, mercury, molybdenum, nickel, lead, selenium, TPHd, TPHg, TPHmo, vanadium, and zinc. The results were compared to the regulatory limits. According to the information contained in the data table, not all of the analytes have published regulatory limits. No exceedances of the available limits were noted.
- Four samples of aged digester sludge collected in April 2005 were analyzed for TPHd, TPHmo, and TPHg. Results indicated concentrations of TPHd ranging from 11 to 210 ppm; TPHmo at 96 to 1,900 ppm; and TPHg at 1.2 to 9.8 ppm.
- On February 23, 2005, eight sludge pile samples were analyzed for the bio-solid pathogens Helminth (parasite) Ova, Enteric Virus, Salmonella, and fecal coliform. The results were below the method detection limits.

According to Ms. Ndreu of the City of Hayward Water Pollution Source Control Department, there are no EPA hydrocarbon limits for land application of sludge and the sludge data are all in compliance with current EPA sludge limits for land application.

7.0 SUMMARY

LFR performed a Phase I ESA of two parcels of land located on Enterprise Avenue in Hayward, California. The parcels include the western portion of the 39.86-acre parcel of land located at 3700 Enterprise Avenue and a 1.67-acre parcel that adjoins the western portion of 3700 Enterprise Avenue to the south. The Site encompasses approximately 22 acres, and ownership is vested to the City of Hayward.

7.1 On Site

A review of available historical information indicates that 3700 Enterprise Avenue has been the location of the City of Hayward wastewater treatment plant since the early 1950s. Before that time the Site was undeveloped. The unaddressed parcel may have been used for farming prior to the 1950s. However, in recent history the parcel has been undeveloped.

The 3700 Enterprise Avenue parcel consists of the western half of the property that is occupied by the City of Hayward wastewater treatment plant. No buildings are located in the portion of the plant that makes up the Site. This area is primarily unpaved, and the ground surface consists mostly of bare soil. Structures on site include the western half of an influent flow equalization basin and a sludge distribution basin, both located along the southern portion of the parcel; an effluent channel and a storm-water channel located along the western border of the parcel; and an unlined bio-solids drying area located on the northern and central portions of the parcel. Equipment such as pumps and underground utilities are located within this portion of the Site. The southern portion of the Site consists of the unaddressed parcel south of Enterprise Avenue and currently is undeveloped, occupied by shrubs and grasses, and surrounded by a chain link fence.

No ASTs, USTs, or hazardous materials and/or waste storage areas were observed on the Site. No potable or monitoring wells are reportedly located on the Site. Bulk containers used to store a polymer that is added to the bio-solids during the treatment process are stored on site in the vicinity of the sludge distribution basin. No evidence of a release of the material was observed on the ground surface in the storage area.

Analytical data for sludge generated at the facility indicates the presence of detectable levels of metals and TPH. There are currently no EPA hydrocarbon limits for the land application of sludge. The data are in compliance with current sludge limits for the land application of sludge.

7.2 Off Site

At present, neighboring properties to the Site include a municipal wastewater treatment plant, commercial warehouse, and office buildings to the south and east; automotive

wrecking yards and a pallet fabrication facility to the north; and a bio-solids storage area and salt ponds to the west.

An environmental database report prepared by FirstSearch was reviewed for cases pertaining to leaking USTs and ASTs, hazardous waste sites, hazardous material use permits, and abandoned sites within the specified radii of standards established by the ASTM. The FirstSearch report identified a LUST on the adjoining wastewater treatment plant. The release of gasoline, which was noted during the removal of a 1,000-gallon UST, was reported in December 1989. The release currently has a status of "leak being confirmed." Based on the assumed westerly direction of groundwater flow, the release could potentially impact groundwater at the Site. After reviewing the results of the FirstSearch report and other available regulatory information, LFR did not identify other specific documented hazardous materials cases that have the potential to impact soil or groundwater at the Site.

8.0 CONCLUSIONS AND OPINIONS

8.1 On Site

The southern parcel of the Site is undeveloped and was historically used as farmland. Based on the available information reviewed as a part of this study, no recognized environmental concerns were identified for this parcel.

The northern portion of the Site has been a part of the adjoining City of Hayward wastewater treatment plant since the early 1950s and has been occupied by an equalization basin, a sludge distribution facility, a bio-solids drying area, and an effluent channel during that period. Except for a polymer that is added to the sludge during the treatment process, oil and hazardous materials are not currently used or stored on site. Additionally, there have been no reported releases or spills. However, given the historical use of this portion of the Site as primarily a bio-solids drying area, oil and/or hazardous materials may be present in the subsurface of the Site. Laboratory data provided for LFR's review indicate the presence of metals, TPH, and VOCs in the sludge and bio-solids generated at the wastewater treatment plant in 2004 and 2005. There are currently no EPA hydrocarbon limits for land application of sludge. The sludge is in compliance with the current EPA regulations. However, affected soil may be encountered upon redevelopment of the Site for uses other than the land application of sludge, and premium costs may be incurred for the disposal of the affected soil.

8.2 Off Site

At present, neighboring properties to the Site include commercial warehouse and office buildings to the south and east, automotive wrecking yards and pallet fabrication facilities to the north, and a bio-solids storage area and salt ponds to the west.

An environmental database report prepared by FirstSearch was reviewed for cases pertaining to LUSTs, USTs, and ASTs, hazardous waste sites, hazardous material use permits, and abandoned sites within the specified radii of standards established by the ASTM. The database report identified a LUST at the adjoining wastewater treatment plant. A gasoline fuel release was discovered in March 1999 during tank removal operations. According to the database report, no action has yet been taken by the Responsible Party to determine the vertical and horizontal extent of the subsurface contamination, and the status is listed as “leak being confirmed.” According to information on file with the ACDEH, which includes a NOR dated January 24, 1990, a gasoline release was noted during the removal of a 1,000-gallon gasoline UST on December 12, 1989. The UST was located on the southern side of the maintenance building, which is within approximately 300 feet east of the Site. An elevated concentration of TPH was detected in a soil sample collected from the excavation following the removal of the UST. Due to the extent of the affected soil, two phases of contaminated soil excavation were conducted following the UST removal. Excavation activities were conducted on January 25, 1990 and February 8, 1990. Soil samples collected from the excavation after the February 8, 1990 excavation activities indicated the presence of detectable levels of TPHg and BTEX in soil and groundwater samples collected from the excavation. No closure documentation for the release was contained in the information on file at the ACDEH. Based on the assumed westerly groundwater flow direction, this release may impact soil and groundwater at the Site.

Based on their distance and direction from the Site and current regulatory status, none of the other facilities identified in the database report are likely to impact soil and groundwater at the Site.

In April 2005, LFR completed a limited subsurface investigation of the northern adjoining properties at 3862 and 3878 Depot Road. The properties are occupied by auto wrecking facilities. The report indicates the presence of residual gasoline constituents in soil and groundwater at concentrations in excess of the RWQCB ESLs. Based on the assumed westerly groundwater flow direction, releases at the adjoining auto wrecking facilities are not expected to impact soil and groundwater at the Site.

9.0 DEVIATIONS

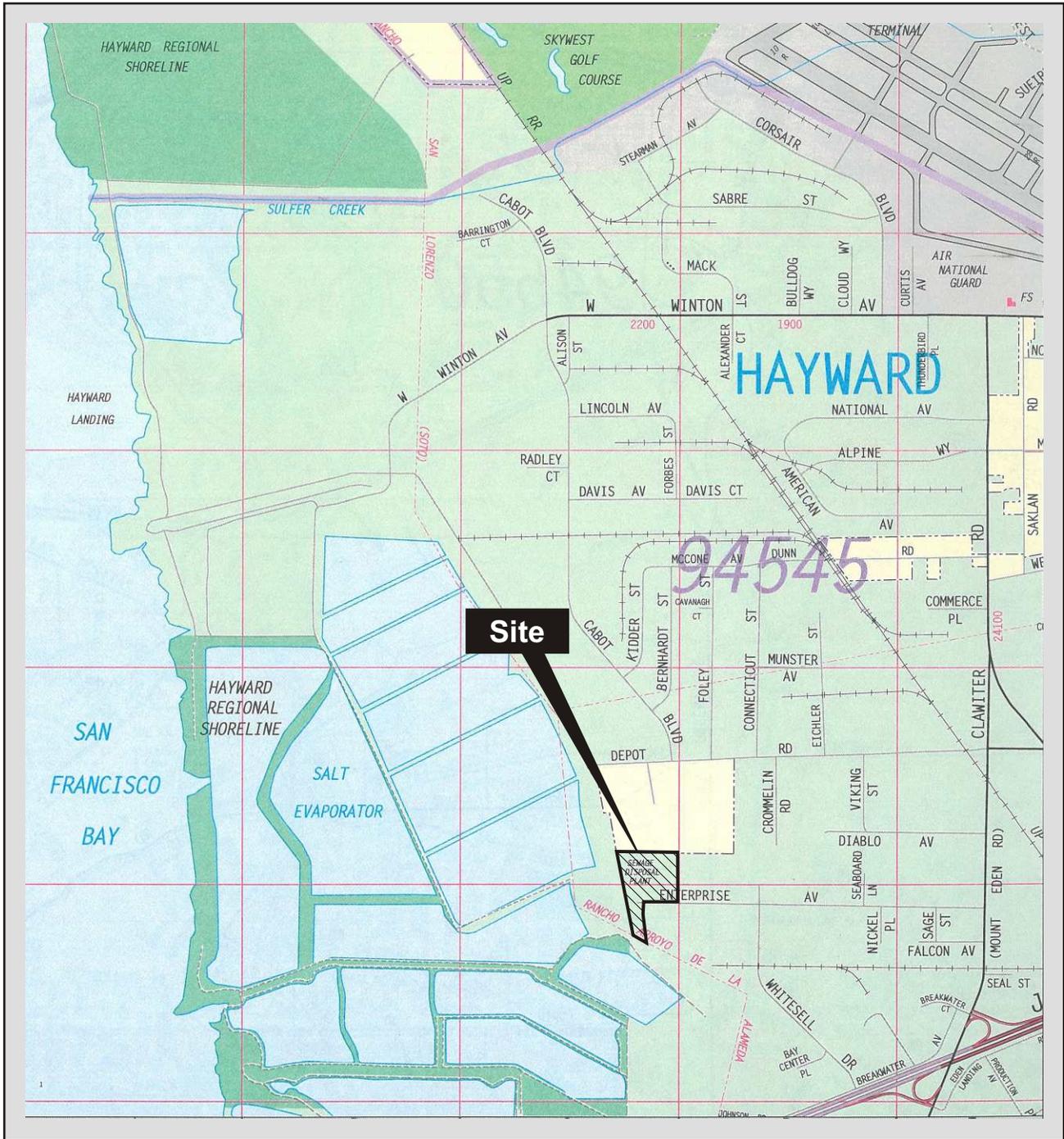
LFR did not deviate from or alter the scope of work, as defined in Section 1.2 of this report.

10.0 ADDITIONAL SERVICES

LFR did not perform any work outside the scope of work as defined in Section 1.2 of this report.

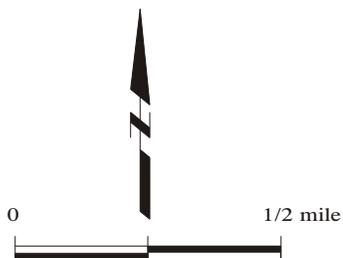
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SOURCE: Thomas Brothers

DESIGN\001\09301\001\Site - Vicinity.CDR

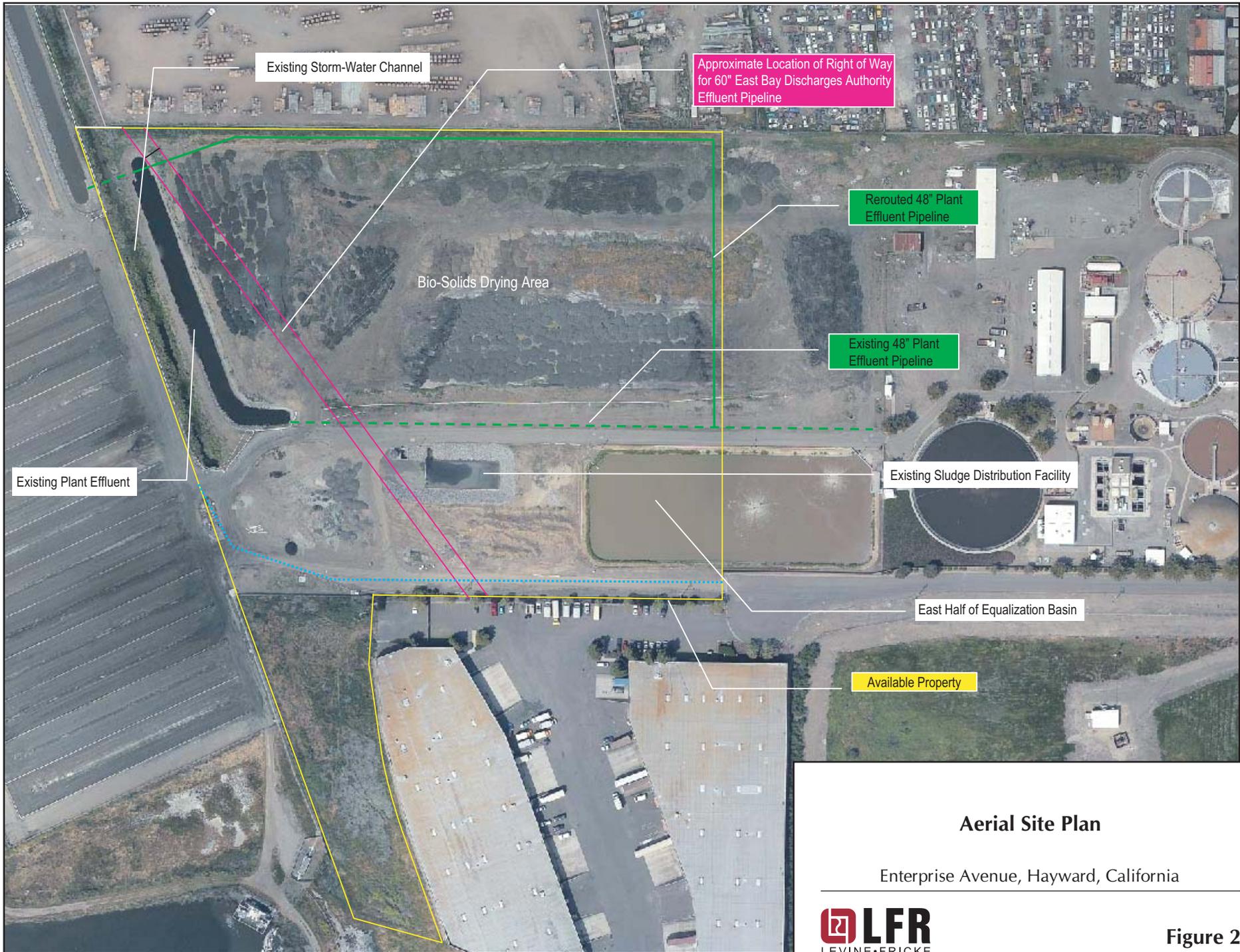


Site Vicinity Map

Enterprise Avenue, Hayward, California



Figure 1



Aerial Site Plan

Enterprise Avenue, Hayward, California



Figure 2

APPENDIX A

Site Photographs



Photo 1: Bio-solids drying area – central portion of the Site.



Photo 2: Bio-solids drying area.



Photo 3: Equalization basin.



Photo 4: Undeveloped parcel south of Enterprise Avenue.



Photo 5: Sludge drying area – adjoining to the east.



Photo 6: Adjoining wildlife refuge.



Photo 7: Storm-water channel.



Photo 8: Sludge distribution facility.

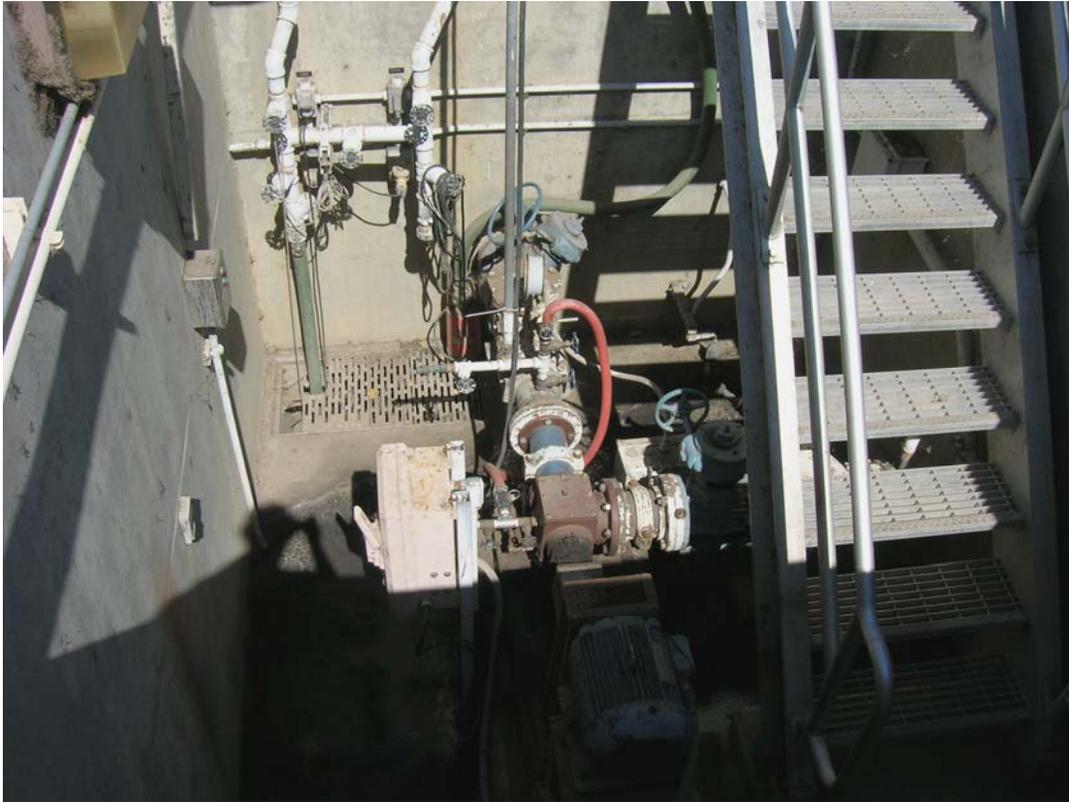


Photo 9: Pump associated with sludge distribution facility.



Photo 10: Containers used to store polymer, which is added to the sludge.



Photo 11: Effluent channel.



Photo 12: Structures at adjoining wastewater treatment plant.

APPENDIX B

Aerial Photographs



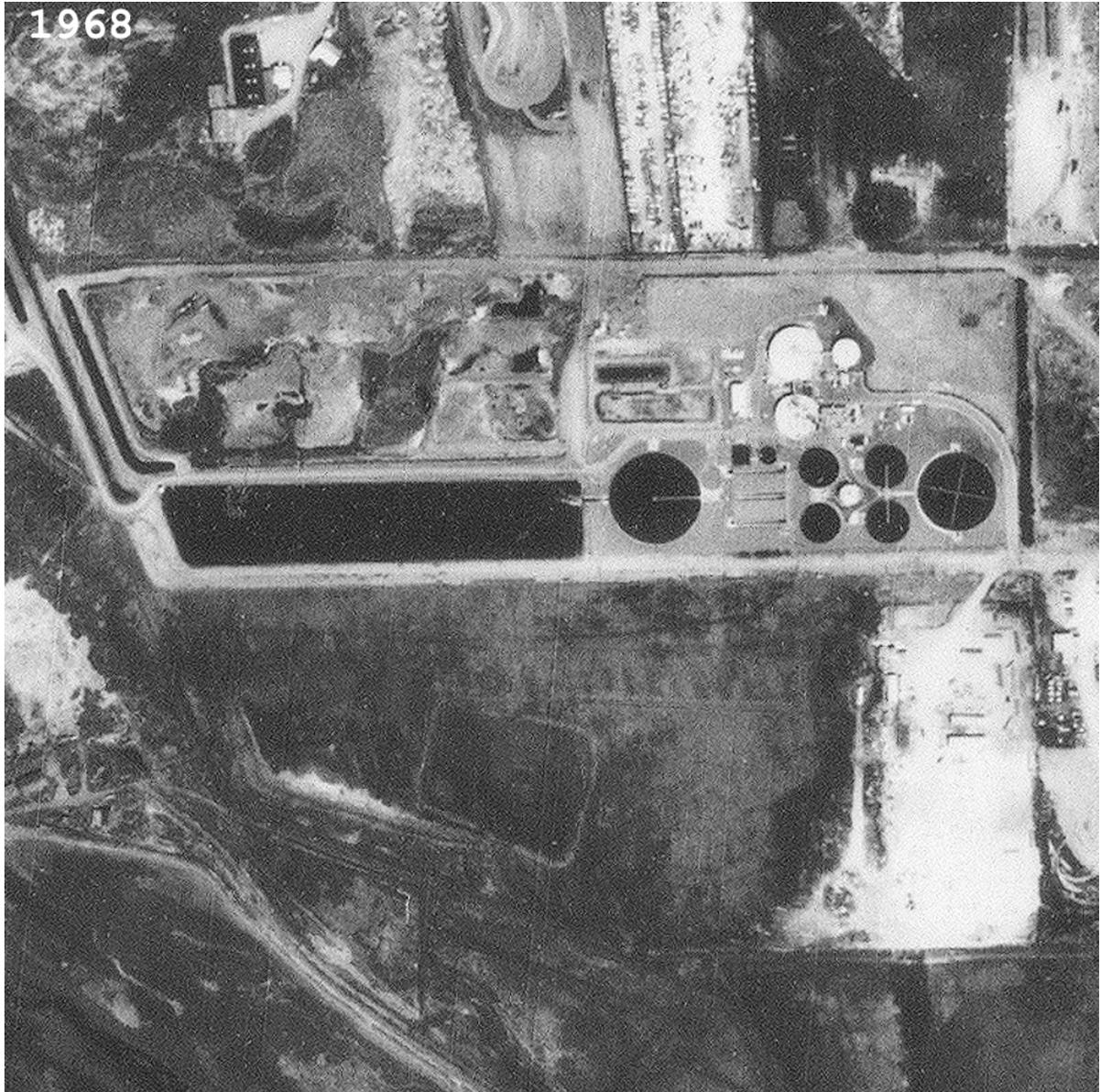
Aerial Photograph – 1939



Aerial Photograph – 1946



Aerial Photograph – 1958



Aerial Photograph – 1968



Aerial Photograph – 1977

1989



Aerial Photograph – 1989

2002



Aerial Photograph – 2002

APPENDIX C

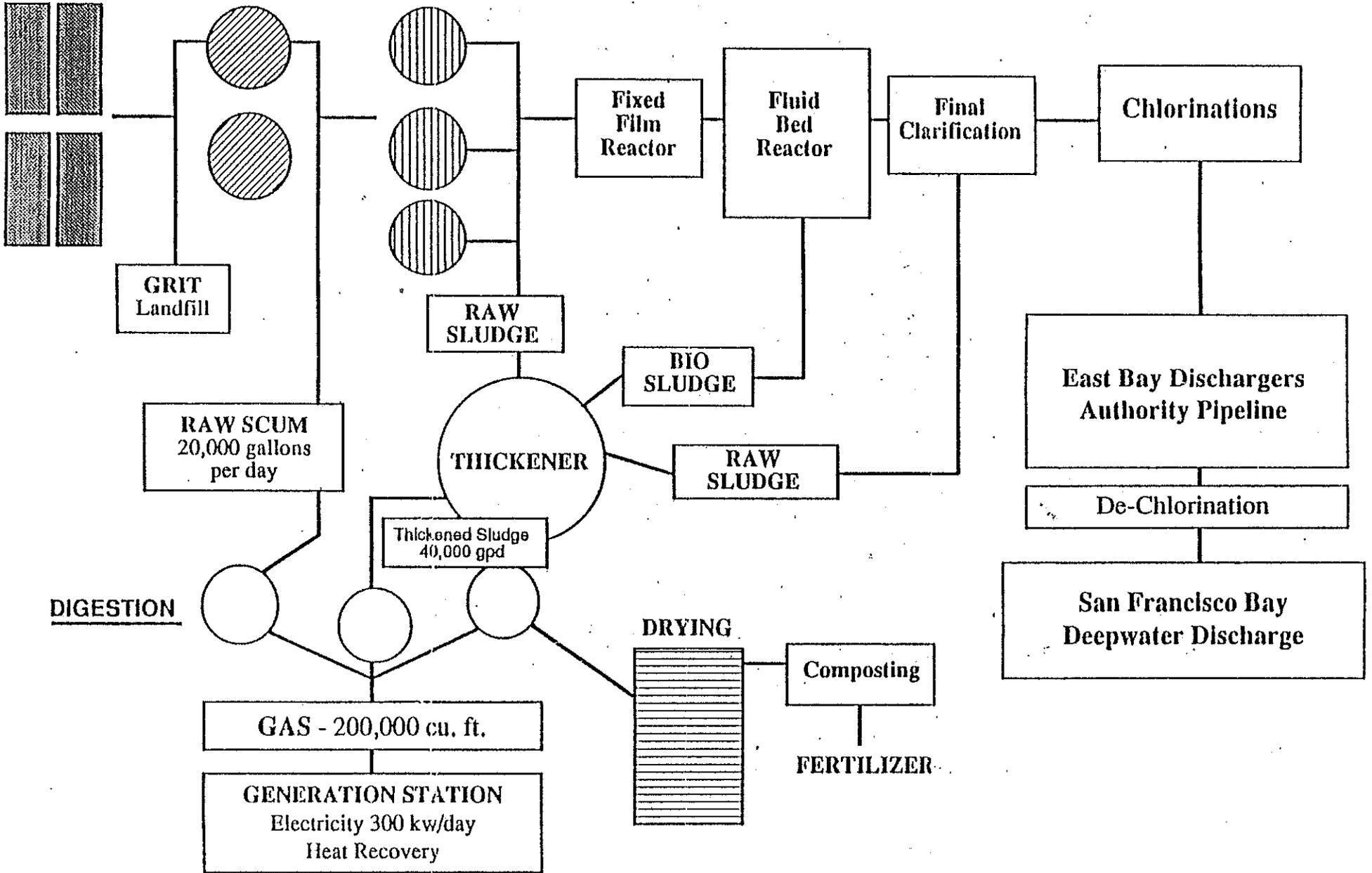
Wastewater Treatment Flow Train Schematic

Primary Treatment

Secondary Treatment

Disinfection

Barminutors Vacuators Primary Clarifiers



APPENDIX D

**Environmental FirstSearch Site Assessment Report
September 26, 2005**

TRACK INFO SERVICES
CITY DIRECTORY REPORT
PREPARED FOR Mona McBride, LFR Inc.

Target Address: 3700 Enterprise Ave
Hayward, CA 94545

TIS Order Number: 502
Client Job Number: 0010930100
Completion Date: 9/28/05

Source of Listing	Next lower address listed for the same side of the street Address may or may not be the adjoining site.	Target Address	Next higher address listed for the same side of the street Address may or may not be the adjoining site.
Haines:East Bay Southern Alameda County 1999 p.134	3684 Enterprise Ave <i>Address listed only</i>	3700 Enterprise Ave -Dorian Gerald -Roan CW Construction Co	3742 Enterprise Ave <i>Address listed only</i>
Haines:East Bay 1994 p.204	3684 Enterprise Ave <i>Address listed only</i>	3700 Enterprise Ave -Haywrd Cty Wtr Pltn	3742 Enterprise Ave <i>Address listed only</i>
Haines:East Bay 1988 p.176	3590 Enterprise Ave -Runnels Industries	3700 Enterprise Ave -Mitoma Bros Mulch	3742 Enterprise Ave <i>Address listed only</i>
Haines:East Bay 1983 p.145	3590 Enterprise Ave -Runnels Industries	3700 Enterprise Ave -Delmonte Electric -Dyn Constrctn Corp -Mitoma Bros Mulch	3742 Enterprise Ave <i>Address listed only</i>
Haines:East Bay 1978 p.206	3590 Enterprise Ave -Runnels Industries	3700 Enterprise Ave -Mitoma Bros Mulch	<i>No listing for a higher number address on the same side of the street</i>

TRACK INFO SERVICES
CITY DIRECTORY REPORT
PREPARED FOR Mona McBride, LFR Inc.

Source of Listing	Next lower address listed for the same side of the street Address may or may not be the adjoining site.	Target Address	Next higher address listed for the same side of the street Address may or may not be the adjoining site.
Haines:Oakland & East Bay 1973 p.491	3590 Enterprise Ave -Freeman CE Co	3700 Enterprise Ave -Mitoma Bros Mulch	<i>No listing for a higher number address on the same side of the street</i>
Polk:Hayward 1959 p.921	3700 Enterprise Ave <i>Enterprise Ave no longer listed in directory</i>		

TRACK ► INFO SERVICES, LLC

Environmental FirstSearch™ Report

TARGET PROPERTY:

3700 ENTERPRISE AVE

HAYWARD CA 94545

Job Number: 0010930100

PREPARED FOR:

LFR Inc

1900 Powell Street, 12/F

Emeryville, CA94608

09-26-05



Tel: (323) 664-9981

Fax: (323) 664-9982

Environmental FirstSearch Search Summary Report

Target Site: 3700 ENTERPRISE AVE
HAYWARD CA 94545

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	05-17-05	1.00	0	0	0	0	0	0	0
CERCLIS	Y	08-01-05	0.50	0	0	0	0	-	0	0
NFRAP	Y	08-01-05	0.12	0	0	-	-	-	0	0
RCRA TSD	Y	06-13-05	0.50	0	0	0	0	-	0	0
RCRA COR	Y	06-13-05	1.00	0	0	0	0	0	0	0
RCRA GEN	Y	06-13-05	0.25	0	0	3	-	-	0	3
RCRA NLR	Y	06-13-05	0.12	0	0	-	-	-	0	0
ERNS	Y	12-31-04	0.12	0	0	-	-	-	0	0
State Sites	Y	05-04-05	1.00	0	0	0	0	0	0	0
Spills-1990	Y	07-01-03	0.12	0	0	-	-	-	0	0
SWL	Y	09-07-05	0.50	0	0	0	1	-	0	1
Permits	Y	02-11-04	0.12	0	0	-	-	-	0	0
Other	Y	09-06-05	0.25	0	0	0	-	-	0	0
REG UST/AST	Y	04-05-05	0.25	0	0	0	-	-	0	0
Leaking UST	Y	05-10-05	0.50	1	0	2	3	-	0	6
Releases(Air/Water)	Y	12-31-04	0.25	0	0	0	-	-	0	0
- TOTALS -				1	0	5	4	0	0	10

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to TRACK Info Services, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in TRACK Info Services's databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although TRACK Info Services uses its best efforts to research the actual location of each site, TRACK Info Services does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of TRACK Info Services's services proceeding are signifying an understanding of TRACK Info Services's searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

**Environmental FirstSearch
Site Information Report**

Request Date: 09-26-05
Requestor Name: mona mcbride
Standard: ASTM

Search Type: COORD
Job Number: 0010930100
Filtered Report

TARGET ADDRESS: 3700 ENTERPRISE AVE
HAYWARD CA 94545

Demographics

Sites: 10	Non-Geocoded: 0	Population: NA
Radon: 2.2 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>	<u>UTMs</u>
Longitude:	-122.132567	-122:7:57	Easting: 576537.475
Latitude:	37.634404	37:38:4	Northing: 4165401.651
			Zone: 10

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 0 Mile(s)	Services:
--------------------------------------	------------------

<u>ZIP Code</u>	<u>City Name</u>	<u>ST</u>	<u>Dist/Dir</u>	<u>Sel</u>

	<u>Requested?</u>	<u>Date</u>
Sanborns	No	
Aerial Photographs	Yes	09-26-05
Topographical Maps	No	
City Directories	Yes	09/26/05
Title Search	No	
Municipal Reports	No	
Online Topos	No	

***Environmental FirstSearch
Sites Summary Report***

TARGET SITE: 3700 ENTERPRISE AVE
HAYWARD CA 94545

JOB: 0010930100

TOTAL: 10 **GEOCODED:** 10 **NON GEOCODED:** 0 **SELECTED:** 0

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	LUST	AMERICAN AUTO WRECKERS INC T0600101922/PRELIM. SITE ASSES.	3744 DEPOT RD HAYWARD CA 94545	0.23 NW	7
2	RCRAGN	DORIS AUTO WRECKERS CAD981443484/SGN	3720 DEPOT RD HAYWARD CA 94545	0.24 NE	3
3	RCRAGN	AMERICAN AUTO WRECKERS CAD981573751/SGN	3744 DEPOT RD HAYWARD CA 94545	0.24 NE	2
4	LUST	J & M INC T0600100741/CASE CLOSED	3826 DEPOT RD HAYWARD CA 94545	0.24 NW	9
5	RCRAGN	AAA TRUCK PARTS CAD981573090/SGN	3884 DEPORT RD HAYWARD CA 94545	0.24 NW	1
6	LUST	FORNI CORPORATION T0600100605/PRELIM. SITE ASSES.	3600 DEPOT RD HAYWARD CA 94545	0.41 NE	5
7	LUST	FORNI CORP T0600191524/REMEDIAL ACTION	3600 DEPOT RD HAYWARD CA 94545	0.41 NE	5
8	LUST	WASTE WATER TREATMENT PLANT T0600101525/LEAK BEING CONFIRMED	3700 ENTERPRISE AVE HAYWARD CA 94545	0.43 SE	4
9	SWL	LAKIN TIRE WEST, INC.--HAYWARD SWIS01-TI-0968/ACTIVE	3453 ENTERPRISE AVENUE HAYWARD CA 94545	0.45 -E	6
10	LUST	CALIFORNIA COURIERS INC T0600101721/CASE CLOSED	23510 BERNHARDT ST HAYWARD CA 94545	0.48 NW	8

Environmental FirstSearch Federal Database Descriptions

ASTM Databases:

CERCLIS: *Comprehensive Environmental Response Compensation and Liability Information System.* The EPA's database of current and potential Superfund sites currently or previously under investigation. Source: Environmental Protection Agency.

Updated quarterly.

CERCLIS-NFRAP (Archive): *Comprehensive Environmental Response Compensation and Liability Information System Archived Sites.* The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Updated quarterly.

ERNS: *Emergency Response Notification System.* The EPA's database of emergency response actions. Source: Environmental Protection Agency. Data since January, 2001, has been received from the National Response Center as the EPA no longer maintains this data.

Updated quarterly.

FINDS: *The Facility Index System.* The EPA's Index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility. Source: Environmental Protection Agency.

Updated semi-annually.

NPL: *National Priority List.* The EPA's list of confirmed or proposed Superfund sites. Source: Environmental Protection Agency.

Updated quarterly.

RCRIS: *Resource Conservation and Recovery Information System.* The EPA's database of registered hazardous waste generators and treatment, storage and disposal facilities. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List). Source: Environmental Protection Agency.

RCRA TSD: *Resource Conservation and Recovery Information System Treatment, Storage, and Disposal Facilities.* The EPA's database of RCRIS sites which treat, store, dispose, or incinerate hazardous waste. This information is also reported in the standard RCRIS detailed data.

ASTM Database Descriptions (continued):

RCRA COR: Resource Conservation and Recovery Information System Corrective Action Sites. The EPA's database of RCRIS sites with reported corrective action. This information is also reported in the standard RCRIS detailed data.

RCRA GEN: Resource Conservation and Recovery Information System Large, Small, and Very Small Quantity Generators. The EPA's database of RCRIS sites that create hazardous waste or meet other RCRA requirements. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List).

RCRA NLR: Resource Conservation and Recovery Information System sites No Longer Regulated. FirstSearch's proprietary database of Resource Conservation and Recovery Information System's that the EPA cannot categorize.

All RCRA databases are Updated quarterly

**Environmental FirstSearch
Federal Database Descriptions**

Non-ASTM Databases:

HMIRS: *Hazardous Materials Incident Response System.* This database contains information from the US Department of Transportation regarding materials, packaging, and a description of events for tracked incidents.

Updated quarterly.

NCDB: *National Compliance Database.* The National Compliance Data Base System (NCDB) tracks regional compliance and enforcement activity and manages the Pesticides and Toxic Substances Compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts and inspection until the time the inspector closes or the case settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for monitoring national performance of regional programs.

Updated quarterly

NPDES: *National Pollution Discharge Elimination System.* The EPA's database of all permitted facilities receiving and discharging effluents. Source: Environmental Protection Agency.

Updated semi-annually.

NRDB: *National Radon Database.* The NRDB was created by the EPA to distribute information regarding the EPA/State Residential Radon Surveys and the National Residential Radon Survey. The data is presented by zipcode in Environmental FirstSearch Reports. Source: National Technical Information Service (NTIS)

Updated Periodically

Nuclear: The Nuclear Regulatory Commission's (NRC) list of permitted nuclear facilities.

Updated Periodically

PADS: PCB Activity Database System

The EPA's database PCB handlers (generators, transporters, storers and/or disposers) that are required to notify the EPA, the rules being similar to RCRA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

Updated semi-annually.

Receptors: 1995 TIGER census listing of schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

Updated Periodically

Non-ASTM Database Descriptions (continued):

RELEASES: *Air and Surface Water Releases.* A subset of the EPA's ERNS database which have impacted only air or surface water.

Updated semi-annually.

Soils: This database includes the State Soil Geographic (STATSGO) data for the conterminous United States from the United States Geographical Survey (USGS).. It contains information regarding soil characteristics such as water capacity, percent clay, organic material, permeability, thickness of layers, hydrological characteristics, quality of drainage, surface, slope, liquid limit, and the annual frequency of flooding. National Resources Conservation Services Soil Survey Geographic (SSURGO) database, and the USGS Digital Data Series bedrock data.

Updated annually

TRIS: *Toxic Release Inventory System.* The EPA's database of all facilities that have had or may be prone to toxic material releases. Source: Environmental Protection Agency.

Updated semi-annually.

Federal Wells: The United State Geographic Survey (USGS) Groundwater Inventory Sites

Updated annually

**ENVIRONMENTAL FIRST SEARCH
CALIFORNIA DATABASES (DB) AND SOURCES**

SMBRPD / CAL SITES: DB TYPE = STATE (STATE SITES) or OTHER (Other Sites)

Source: The CAL EPA, Depart. Of Toxic Substances Control
Phone: (916) 323-3400

The California Department of Toxic Substances Control (DTSC) has developed an electronic database system with information about sites that are known to be contaminated with hazardous substances as well as information on uncharacterized properties where further studies may reveal problems. The Site Mitigation and Brownfields Reuse Program Database (SMBRPD), also known as "CalSites," is used primarily by DTSC's staff as an informational tool to evaluate and track activities at properties that may have been affected by the release of hazardous substances.

The SMBRPD displays information in six categories. The categories are:

1. CalSites Properties (CS)
2. School Property Evaluation Program Properties (SCH)
3. Voluntary Cleanup Program Properties (VCP)
4. Unconfirmed Properties Needing Further Evaluation (RFE)

Please Note: FirstSearch Reports list the above sites as DB Type (STATE).

5. Unconfirmed Properties Referred to Another Local or State Agency (REF)
6. Properties where a No Further Action Determination has been made (NFA)

Please Note: FirstSearch Reports list the above sites as DB Type (OTHER).

Each Category contains information on properties based upon the type of work taking place at the site. For example, the CalSites database is now one of the six categories within SMPBRD and contains only confirmed sites considered as posing the greatest threat to the public and/or the potential public school sites will be found within the School Property Evaluation Program, and those properties undergoing voluntary investigation and/or cleanup are in the Voluntary Cleanup Program.

CORTESE: DB TYPE = STATE (STATE SITES)

Source: The CAL EPA, Department of Toxic Substances Control
Phone: (916) 445-6532

Pursuant to Government Code Section 65962.5, the Hazardous Waste and Substances Sites List has been compiled by Cal/EPA, Hazardous Materials Data Management Program. The CAL EPA Dept. of Toxic Substances Control compiles information from subsets of the following databases to make up the CORTESE list:

1. The Dept. of Toxic Substances Control; contaminated or potentially contaminated hazardous waste sites listed in the CAL Sites database. Formerly known as ASPIS are included (CAL SITES formerly known as ASPIS).
2. The California State Water Resources Control Board; listing of Leaking Underground Storage Tanks are included (LTANK)
3. The California Integrated Waste Management Board; Sanitary Landfills which have evidence of groundwater contamination or known migration of hazardous materials (formerly WB-LF, now AB 3750).

Note: Track Info Services collects each of the above data sets individually and lists them separately in the following First Search categories in order to provide more current and comprehensive information: CALSITES: SPL, LTANK: LUST, WB-LF: SWL

SWIS SOLID WASTE INFORMATION SYSTEM: DB TYPE = SWL

Source: The Integrated Waste Management Board
Phone: (916) 255-2331

The California Integrated Waste Management Board maintains a database on solid waste facilities, operations, and disposal sites throughout the state of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites. For more information on individual sites call the number listed above.

Please Note: This database contains poor site location information for many sites in the First Search reports; therefore, it may not be possible to locate or plot some sites in First Search reports.

WMUDS: DB TYPE = SW (SOLID WASTE RELATED SITES)

Source: The State Water Resources Control Board
Phone: (916) 227-4365

The State Water Resources Control Board maintained the Waste Management Unit Database System (WMUDS). It is no longer updated. It tracked management units for several regulatory programs related to waste management and its potential impact on groundwater. Two of these programs (SWAT & TPCA) are no longer on-going regulatory programs as described below. Chapter 15 (SC15) is still an on-going regulatory program and information is updated periodically but not to the WMUDS database. The WMUDS System contains information from the following agency databases: Facility, Waste Management Unit (WMU), Waste Discharger System (WDS), SWAT, Chapter 15, TPCA, RCRA, Inspections, Violations, and Enforcement's.

Note: This database contains poor site location information for many sites in the First Search reports; therefore, it may not be possible to locate or plot some sites in First Search reports.

ORANGE COUNTY LANDFILLS: DB TYPE = SW (SOLID WASTE RELATED SITES)

Source: Orange County Health Dept.
Phone: (714) 834-3536

LUSTIS: DB TYPE = LU (LEAKING UNDERGROUND STORAGE TANKS)

Source: The State Water Resources Control Board
Phone: (916) 227-4416

The State Water Resources Control Board maintains a database of sites with confirmed or unconfirmed leaking underground storage tanks. Information for this database is collected from the states regional boards quarterly and integrated with this database.

SAN DIEGO COUNTY LEAKING TANKS: DB TYPE = LU

(LEAKING UNDERGROUND STORAGE TANKS)

Source: San Diego County Dept. of Environmental Health
Phone: (619) 338-2242

Maintains a database of sites with confirmed or unconfirmed leaking underground storage tanks within its HE17/58 database. For more information on a specific file call the HazMat Duty Specialist at phone number listed above.

SLIC REGIONS 1 - 9: DB TYPE = SP (SPILLS-90)

Source: The CAL EPA Regional Water Quality Control Boards 1 - 9

The California Regional Water Quality Control Boards maintain report of sites that have records of spills, leaks, investigation, and cleanups. For phone number listings of departments within each region visit their web sites at: <http://www.swrcb.ca.gov/regions.html>

SAN DIEGO COUNTY HE17 PERMITS: DB TYPE = PE (PERMITS)

Source: The San Diego County Depart. Of Environmental Health
Phone: (619) 338-2211

The HE17/58 database tracks establishments issued permits and the status of their permits in relation to compliance with federal, state, and local regulations that the County oversees. It tracks if a site is a hazardous waste generator, TSD, gas station, has underground tanks, violations, or unauthorized releases. For more information on a specific file call the HazMat Duty Specialist at the phone number listed above.

**SAN BERNARDINO COUNTY HAZARDOUS MATERIALS PERMITS: DB TYPE = PE
(PERMITS)**

Source: San Bernardino County Fire Dept.
Phone: (909) 387-3080

Handlers and Generators Permit Information Maintained by the Hazardous Materials Div.

LA COUNTY SITE MITIGATION COMPLAINT CONTROL LOG: DB TYPE = OT

(OTHER UNIQUE DATABASES)

Source: The Los Angeles County Hazardous Materials Division
Phone: (323) 890-7806

The County of Los Angeles Public Health Investigation Compliant Control Log

ORANGE COUNTY INDUSTRIAL SITE CLEANUPS: DB TYPE = OT

(OTHER UNIQUE DATABASES)

Source: Orange County Environmental Health Agency
Phone: (714) 834-3536

AST ABOVEGROUND STORAGE TANKS: DB TYPE = US (UNDERGROUND STORAGE TANKS)

Source: The State Water Resources Control Board
Phone: (916) 227-4364

The Above Ground Petroleum Storage Act became State Law effective January 1, 1990. In general, the law requires owners or operators of AST's with petroleum products to file a storage statement and pay a fee by July 1, 1990 and every two years thereafter, take specific action to prevent spills, and in certain instances implement a groundwater monitoring program. This law does not apply to that portion of a tank facility associated with the production oil and regulated by the State Division of Oil and Gas of the Dept. of Conservation.

SWEEPS / FIDS STATE REGISTERED UNDEGROUND STORAGE TANKS: DB TYPE = US

Source: CAL EPA Dept of Toxic Substances Control
Phone: (916) 227-4404

Until 1994 the State Water Resources Control Board maintained a database of registered underground storage tanks statewide referred to as the SWEEPS System. The SWEEPS UST information was integrated with the CAL EPA's Facility Index System database (FIDS) which is a master index of information from numerous California agency environmental databases. That was last updated in 1994. Track Info Services included the UST information from the FIDS database in its First Search reports for historical purposes to help its clients identify where tanks may possibly have existed. For more information on specific sites from individual paper files archived at the State Water Resources Control Board call the number listed above.

INDIAN LANDS UNDERGROUND STORAGE TANKS LIST: DB TYPE = US

Source: US EPA Region 9 Underground Storage Tank Program
Phone: (415) 972-3372

A listing of underground storage tanks currently on Indian Lands under federal jurisdiction. California Indian Land USTS are administered by US EPA Region 9. For more information contact Jonathan Leong at the number listed above.

CUPA DATABASES DESCRIPTIONS
(DB TYPE = US (UNDERGROUND STORAGE TANKS))

DEFINITION OF A CUPA: A Certified Unified Program Agency (CUPA) is a local agency that has been certified by the CAL EPA to implement six state environmental programs within the local agency's jurisdiction. These can be a county, city, or JPA (Joint Powers Authority). This program was established under the amendments to the California Health and Safety Code made by SB 1082 in 1994.

A Participating Agency (PA) is a local agency that has been designated by the local CUPA to administer one or more Unified Programs within their jurisdiction on behalf of the CUPA. A Designated Agency (DA) is an agency that has not been certified by the CUPA but is the responsible local agency that would implement the six unified programs until they are certified.

Please Note: Track Info Services, LLC collects and maintains information regarding Underground Storage Tanks from majority of the CUPAS and Participating Agencies in the State of California. These agencies typically do not maintain nor release such information on a uniform or consistent schedule; therefor, currency of the data may vary. Please look at the details on a specific site with a UST record in the First Search Report to determine the actual currency date of the record as provided by the relevant agency. Numerous efforts are made on a regular basis to obtain updated records.

ALAMEDA COUNTY CUPA'S

* County of Alameda Department of Environmental Health
* Cities of Berkeley, Fremont, Hayward, Livermore / Pleasanton, Newark, Oakland, San Leandro, Union

ALPINE COUNTY CUPA

* Health Department (Only updated by agency annually)

AMADOR COUNTY CUPA

* County of Amador Environmental Health Department

BUTTE COUNTY CUPA

* County of Butte Environmental Health Division (Only updated by agency biannually)

CALAVERAS COUNTY CUPA

* County of Calaveras Environmental Health Department

COLUSA COUNTY CUPA

* Environmental Health Dept.

CONTRA COSTA COUNTY CUPA

* Hazardous Materials Program

DEL NORTE COUNTY CUPA (US)

* Department of Health and Social Services

EL DORADO COUNTY CUPA'S

* County of El Dorado Environmental Health - Solid Waste Div (Only updated by agency annually)

* County of El Dorado EMD Tahoe Division
(Only updated by agency annually)

FRESNO COUNTY CUPA

* Haz. Mat and Solid Waste Programs

GLENN COUNTY CUPA

* Air Pollution Control District

HUMBOLDT COUNTY CUPA (US)

* Environmental Health Division

IMPERIAL COUNTY CUPA (US)

* Department of Planning and Building

INYO COUNTY CUPA (US)

* Environmental Health Department

KERN COUNTY CUPA (US)

- * County of Kern Environmental Health Department
- * City of Bakersfield Fire Department

KINGS COUNTY CUPA (US)

- * Environmental Health Services

LAKE COUNTY CUPA (US)

- * Division of Environmental Health

LASSEN COUNTY CUPA (US)

- * Department of Agriculture

LOS ANGELES COUNTY CUPA'S (US)

- * County of Los Angeles Fire Department
- * County of Los Angeles Environmental Programs Division
- * Cities of Burbank, El Segundo, Glendale, Long Beach/Signal Hill, Los Angeles, Pasadena, Santa Fe Springs, Santa Monica, Torrance, Vernon

MADERA COUNTY CUPA (US)

- * Environmental Health Department

MARIN COUNTY CUPA (US)

- * County of Marin Office of Waste Management
- * City of San Rafael Fire Department

MARIPOSA COUNTY CUPA (US)

- * Health Department

MENDOCINO COUNTY CUPA (US)

- * Environmental Health Department

MERCED COUNTY CUPA (US)

- * Division of Environmental Health

MODOC COUNTY CUPA (US)

- * Department of Agriculture

MONO COUNTY CUPA (US)

- * Health Department

MONTEREY COUNTY CUPA (US)

- * Environmental Health Division

NAPA COUNTY CUPA (US)

- * Hazardous Materials Section

NEVADA COUNTY CUPA (UST)

- * Environmental Health Department

ORANGE COUNTY CUPA'S (US)

- * County of Orange Environmental Health Department
- * Cities of Anaheim, Fullerton, Orange, Santa Ana
- * County of Orange Environmental Health Department

PLACER COUNTY CUPA (US)

- * County of Placer Division of Environmental Health Field Office
- * Tahoe City
- * City of Roseville Roseville Fire Department

PLUMAS COUNTY CUPA (UST)

- * Environmental Health Department

RIVERSIDE COUNTY CUPA (US)

- * Environmental Health Department

SACRAMENTO COUNTY (US)

- * County Environmental Mgmt Dept, Haz. Mat. Div.

SAN BENITO COUNTY CUPA (US)

- * City of Hollister Environmental Service Department

SAN BERNARDINO COUNTY CUPA'S (US)

- * County of San Bernardino Fire Department, Haz. Mat. Div.
- * City of Hesperia Hesperia Fire Prevention Department
- City of Victorville Victorville Fire Department

SAN DIEGO COUNTY CUPA (US)

- * The San Diego County Dept. of Environmental Health HE 17/58

SAN FRANCISCO COUNTY CUPA (US)

- * Department of Public Health

SAN JOAQUIN COUNTY CUPA (US)

- * Environmental Health Division

SAN LUIS OBISPO COUNTY CUPA'S (US)

* County of San Luis Obispo Environmental Health Division

* City of San Luis Obispo City Fire Department

SAN MATEO COUNTY CUPA (US)

* Environmental Health Department

SANTA BARBARA COUNTY CUPA (US)

* Co Fire Dept Protective Services Div

SANTA CLARA COUNTY CUPA'S (US)

* County of Santa Clara Hazardous Materials Compliance Division

* Santa Clara Co Central Fire Prot. Dist. (Covers Campbell, Cupertino, Los Gatos, & Morgan Hill)

* Cities of Gilroy, Milpitas, Mountain View, Palo Alto, San Jose Fire, Santa Clara, Sunnyvale

SANTA CRUZ COUNTY CUPA (US)

* Environmental Health Department

SHASTA COUNTY CUPA (US)

* Environmental Health Department

SIERRA COUNTY CUPA (US)

* Health Department

SISKIYOU COUNTY CUPA (US)

* Environmental Health Department

SONOMA COUNTY CUPA'S (US)

* County of Sonoma Department Of Environmental Health

* Cities of Healdsburg / Sebastapol, Petaluma, Santa Rosa

STANISLAUS COUNTY CUPA (US)

* Dept. of Env. Rsrchs. Haz. Mat. Div.

SUTTER COUNTY CUPA (US)

* Department of Agriculture

TEHAMA COUNTY CUPA (US)

* Department of Environmental Health

TRINITY COUNTY CUPA (US)

* Department of Health

TULARE COUNTY CUPA (US)

* Environmental Health Department

TUOLUMNE COUNTY CUPA (US)

* Environmental Health

VENTURA COUNTY CUPA'S (BWT UST'S & CERTIFIED UST'S)

* County of Ventura Environmental Health Division

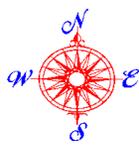
* Cities of Oxnard, Ventura

YOLO COUNTY CUPA (US)

* Environmental Health Department

YUBA COUNTY CUPA (US)

* Yuba County of Emergency Services

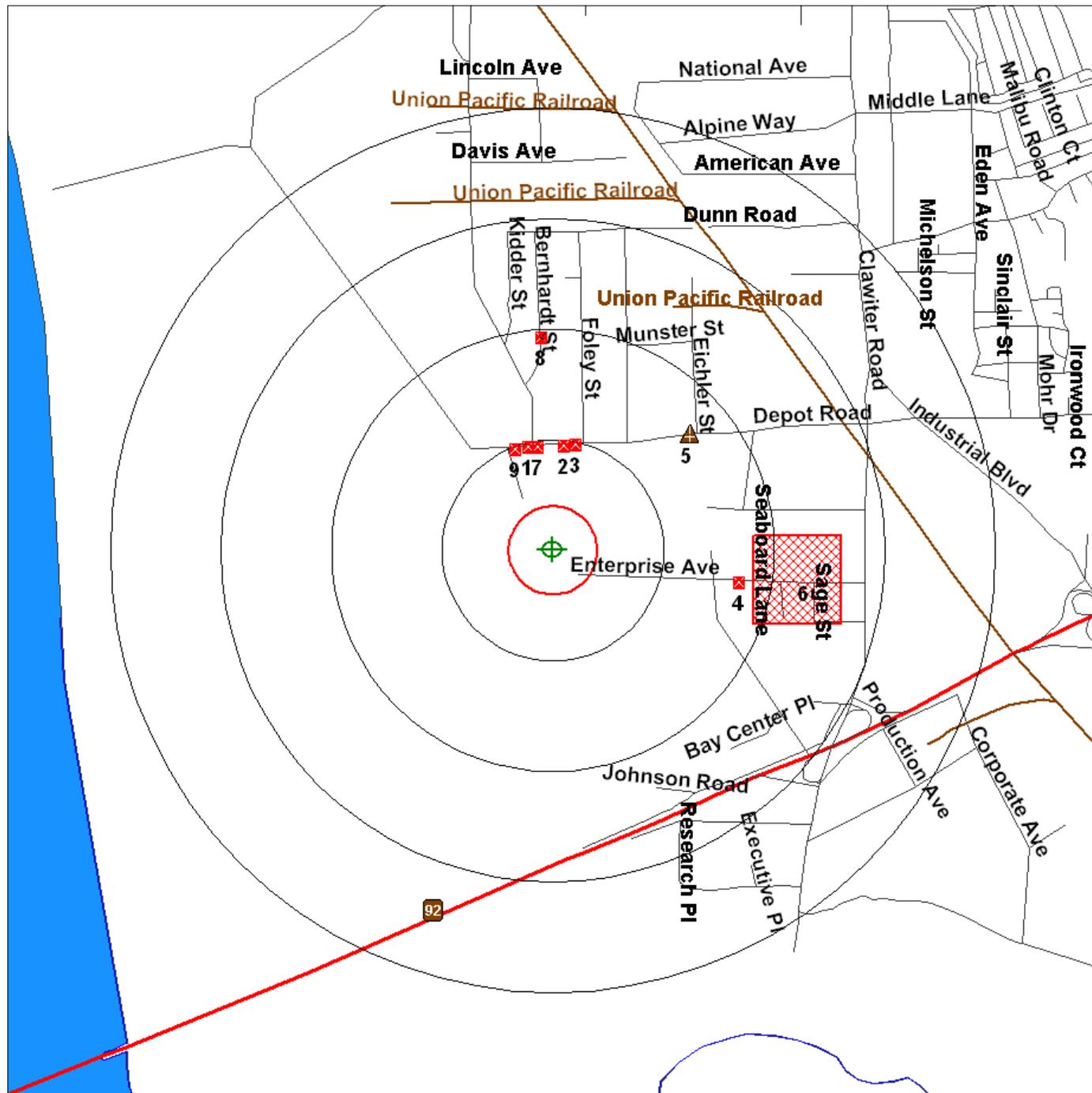


Environmental FirstSearch

1 Mile Radius
Single Map:



3700 ENTERPRISE AVE, HAYWARD CA 94545



Source: U.S. Census TIGER Files

- Target Site (Latitude: 37.634404 Longitude: -122.132567) 
 - Identified Site, Multiple Sites, Receptor   
 - NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste 
 - Railroads 
- Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

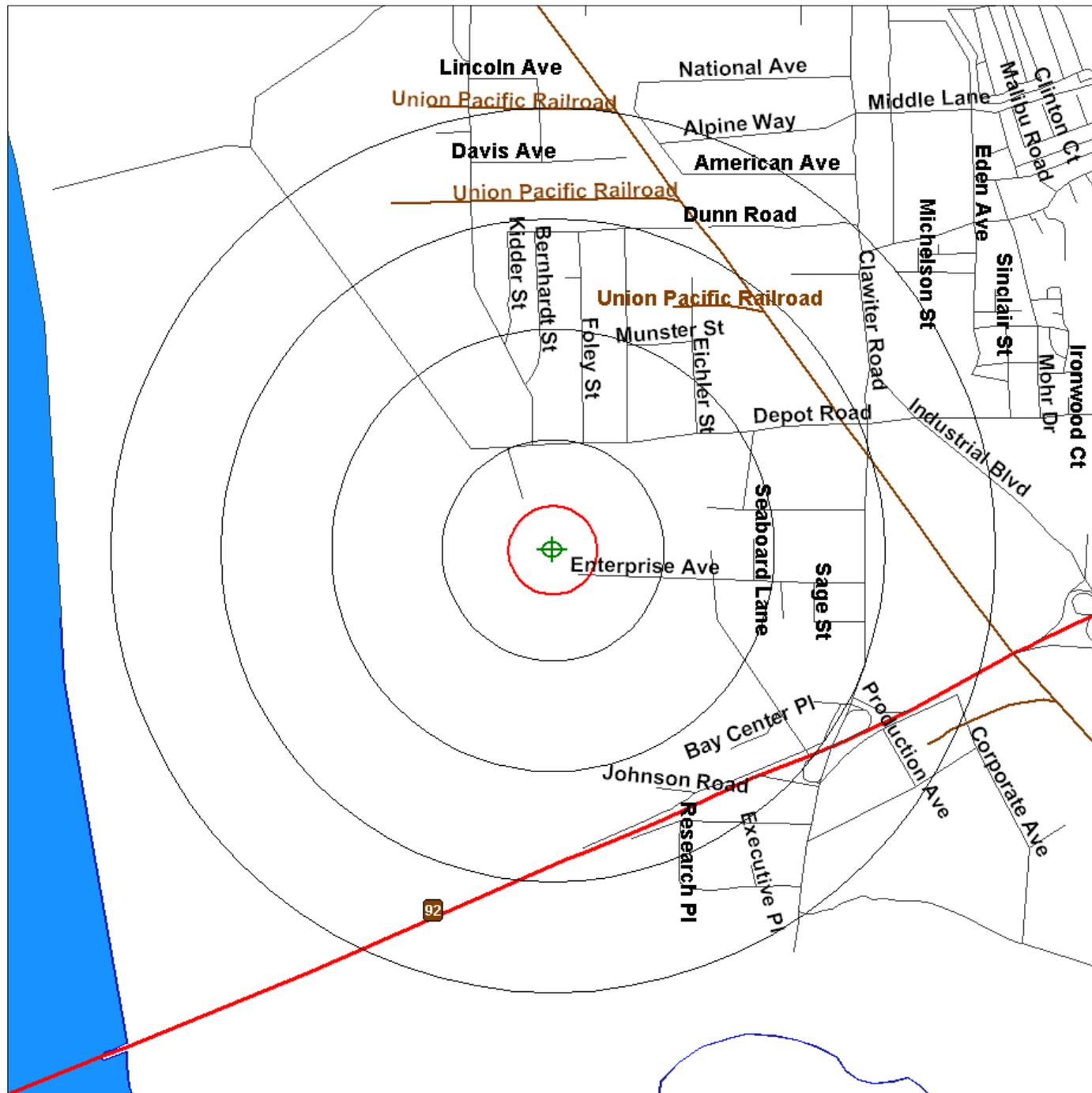


Environmental FirstSearch

1 Mile Radius
ASTM: NPL, RCACOR, STATE



3700 ENTERPRISE AVE, HAYWARD CA 94545



Source: U.S. Census TIGER Files

- Target Site (Latitude: 37.634404 Longitude: -122.132567) 
- Identified Site, Multiple Sites, Receptor   
- NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste 
- Railroads 
- Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

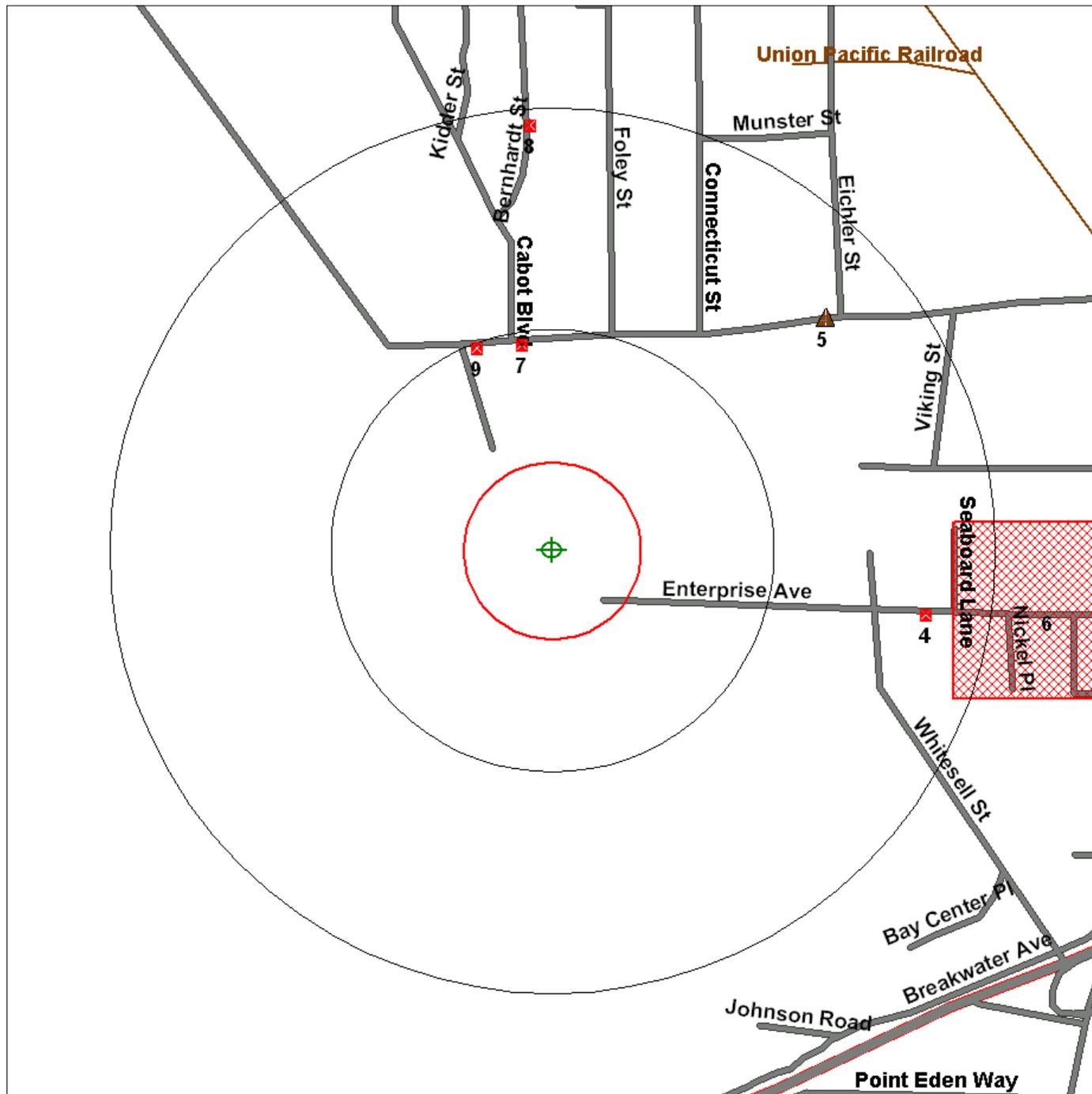


Environmental FirstSearch

.5 Mile Radius
ASTM: CERCLIS, RCRATSD, LUST, SWL



3700 ENTERPRISE AVE, HAYWARD CA 94545



Source: U.S. Census TIGER Files

- Target Site (Latitude: 37.634404 Longitude: -122.132567) 
 - Identified Site, Multiple Sites, Receptor   
 - NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste 
 - Railroads 
- Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

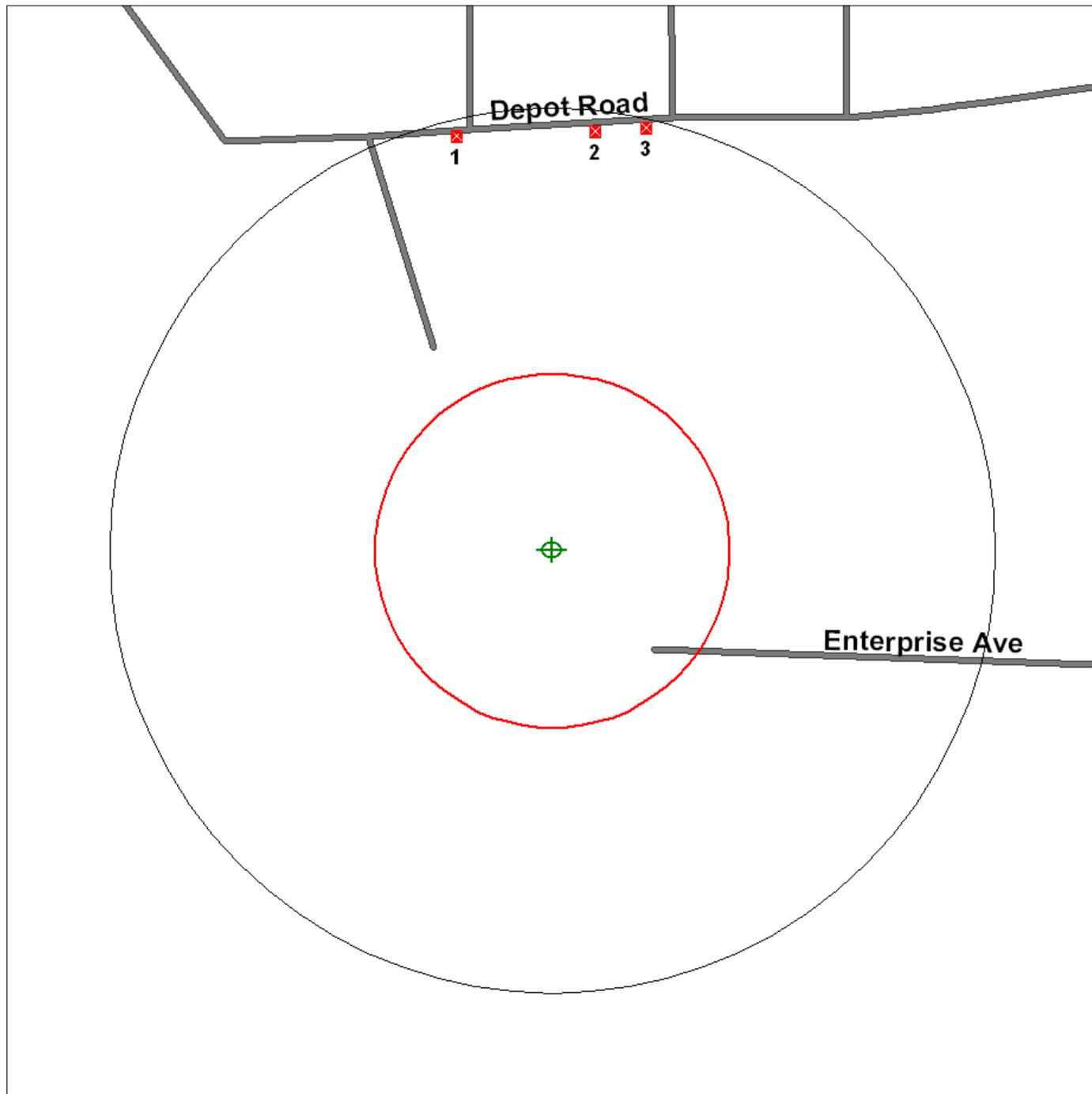


Environmental FirstSearch

.25 Mile Radius
ASTM: RCRAGEN, UST, OTHER, RELEASES



3700 ENTERPRISE AVE, HAYWARD CA 94545



Source: U.S. Census TIGER Files

- Target Site (Latitude: 37.634404 Longitude: -122.132567) 
 - Identified Site, Multiple Sites, Receptor   
 - NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste 
 - Railroads 
- Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius



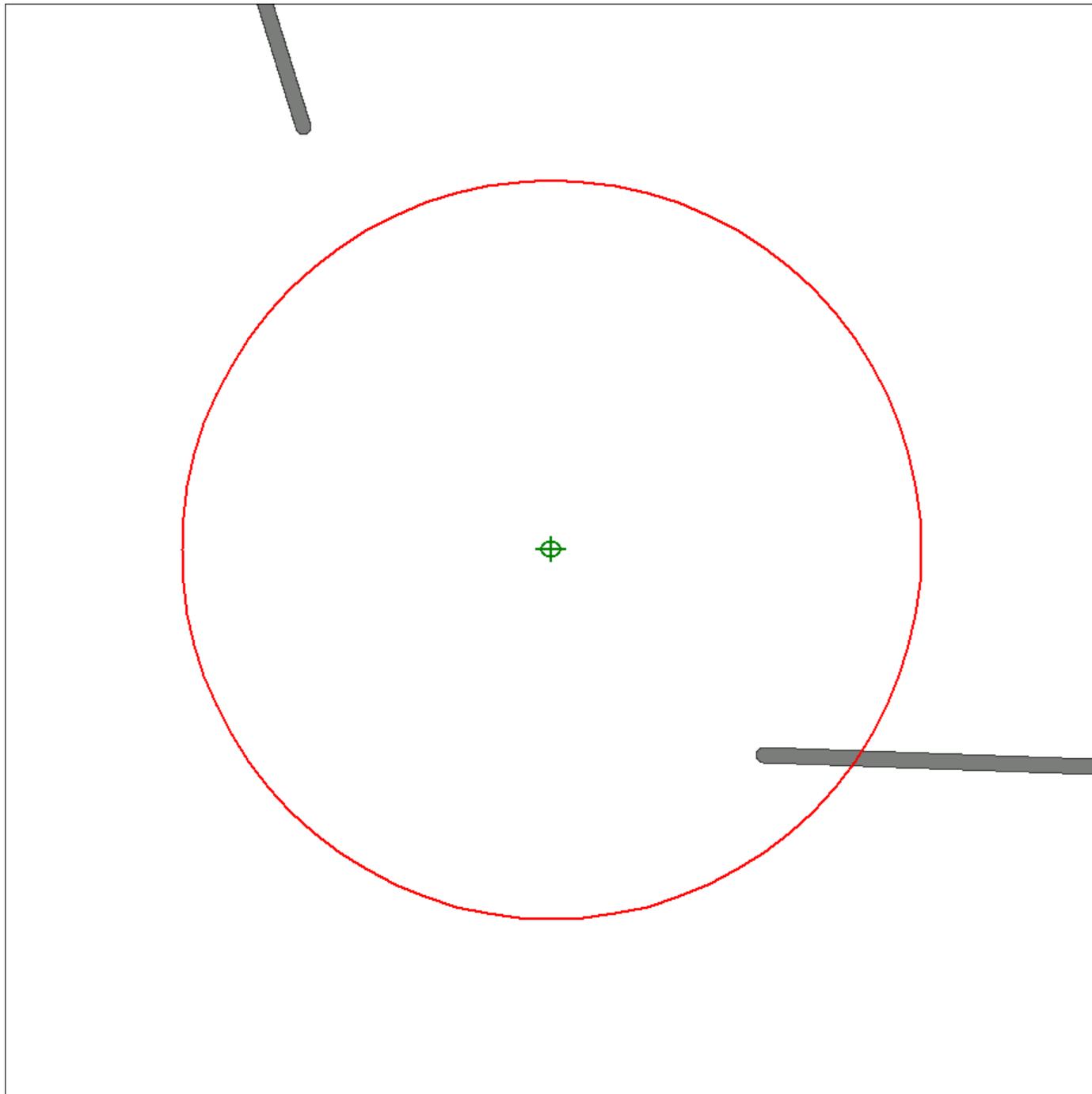
Environmental FirstSearch

.12 Mile Radius

ASTM: NFRAP, SPILLS90, ERNS, RCRANLR, PERMITS



3700 ENTERPRISE AVE, HAYWARD CA 94545



Source: U.S. Census TIGER Files

- Target Site (Latitude: 37.634404 Longitude: -122.132567) 
- Identified Site, Multiple Sites, Receptor   
- NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste 
- Railroads 

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

APPENDIX E

Analytical Data

Alpha

Analytical Laboratories, Inc.

208 Mason Street, Ukiah, CA 95482

707-468-0401

HAZARDOUS WASTE LC50 SCREEN

Dilution Water: Soft

Hardness - Start: 47.2 mg/l End: 47.1 mg/l

Alkalinity - Start: 35.0 mg/l End: 35.0 mg/l

Species: Pimephales Promelas - Fathead Minnows

Tank Volume: 10 Liters

Aeration: 100 Bubbles/Min. through 1mm Bore pipet
if yes - then all tanks will be aerated **** YES*

Acclimation Temp: 20.0 deg.C

Average length: 31.9 mm

Average weight: 0.354 g

Number Fish per Tank: 10

Client: Hayward, City of - WWTP

Lab # A509494-01

Spl ID: Digester #2 (soil)

Ref. # 11891

Date/Time Sampled: 09/01/05 13:30

Date:	<u>9/20</u>	<u>9/21</u>	<u>9/22</u>	<u>9/23</u>	<u>9/24</u>
Year: 2005					
Time:	<u>17:00</u>	<u>16:00</u>	<u>16:30</u>	<u>17:30</u>	<u>17:30</u>

	INITIAL			24 HOURS				48 HOURS				72 HOURS				96 HOURS				TOTAL
	DO mg/l	deg C	pH	DO mg/l	deg C	pH	#M	DO mg/l	deg C	pH	#M	DO mg/l	deg C	pH	#M	DO mg/l	deg C	pH	#M	No. Dead
Control-A	8.70	20.0	7.10	8.40	19.7	7.20	0	8.50	19.8	7.20	0	8.50	19.9	7.30	0	8.50	19.7	7.30	0	0
Control-B	8.50	20.0	7.20	8.40	19.7	7.30	0	8.40	19.8	7.30	0	8.50	19.9	7.40	0	8.40	19.7	7.30	0	0
750 mg/l-A	8.60	20.0	7.50	8.50	19.7	7.40	0	8.50	19.8	7.20	0	8.40	19.9	7.30	1	8.20	19.8	7.50	1	2
750 mg/l-B	8.60	20.0	7.50	8.50	19.7	7.40	0	8.50	19.8	7.20	0	8.40	19.8	7.30	0	8.20	19.8	7.50	2	2
250 mg/l-A	8.60	20.0	7.50	8.40	19.8	7.40	0	8.40	19.8	7.20	0	8.40	19.8	7.40	0	8.10	19.7	7.40	0	0
250 mg/l-B	8.50	20.0	7.50	8.40	19.8	7.40	0	8.40	19.8	7.20	0	8.40	19.8	7.40	0	8.00	19.7	7.40	0	0

Analyst: AED AED AED AED AED

Remarks: Sample=Plant matter, roots,hair,snails shells and sand.

Supervisor: Julia R. Schnitzler

Results: >500 mg/l

Alpha Analytical Laboratories, Inc.

Date: 9/26/2005

Laboratory Director: _____

Digester # 2

June 2005

Antimony	Sb	< 110	mg/Kg
Arsenic	As	< 36	mg/Kg
Barium	Ba	140	mg/Kg
Beryllium	Be	< 5.5	mg/Kg
Cadmium	Cd	< 7.3	mg/Kg
Chromium	Cr	< 36	mg/Kg
Cobalt	Co	< 73	mg/Kg
Copper	Cu	120	mg/Kg
Lead	Pb	< 36	mg/Kg
Mercury	Hg	< 1.5	mg/Kg
Molybdenum	Mo	< 73	mg/Kg
Nickel	Ni	< 73	mg/Kg
Selenium	Se	< 7.3	mg/Kg
Silver	Ag	< 36	mg/Kg
Thallium	Tl	< 51	mg/Kg
Vanadium	V	< 36	mg/Kg
Zinc	Zn	290	mg/Kg
% Solids		13.7	%

Oil & Grease	1700	mg/L
% Solids	1.87	%
TPH-Diesel	16000	ug/L
TPH-Gasoline	2700	ug/L
TPH-Motor oil	93000	ug/L

Aged Sludges 2004

ANALYTE	RESULT									503 Regulatory Limit	UNITS
	Sludge Pile #1 (51021)	Sludge Pile #2 (51022)	Sludge Pile #3 (51023)	Sludge Pile #4 (51024)	Sludge Pile #5 (51025)	Sludge Pile #6 (51026)	Sludge Pile #7 (51027)	Sludge Pile #8 (51028)	Ave.		
Silver	36	36	37	34	26	30	63	47	39		mg/kg dry
Arsenic	9.8	6.7	6.4	7	7.9	5.1	14	9.4	8.3	41	mg/kg dry
Barium	710	580	590	490	520	530	990	630	630		mg/kg dry
Beryllium	ND	ND	ND	ND	ND	ND	0.83	ND	0.83		mg/kg dry
Toluene	ND	ND		mg/kg dry							
Toluene-d8	0.053	0.053	0.0441	0.0463	0.0484	9.28	14.9	12.8	4.7		mg/kg dry
Ethylbenzene	ND	ND		mg/kg dry							
Dibromofluoromethane	0.0625	0.0593	0.0503	0.0571	0.0598	7.07	11.3	9.79	3.6		mg/kg dry
Bromofluorobenzene	0.033	0.0338	0.0388	0.0326	0.0272	9.33	14.5	12.7	4.6		mg/kg dry
Benzene	ND	ND		mg/kg dry							
Xylenes (total)	ND	ND		mg/kg dry							
Cadmium	9.9	9.6	10	6.2	6	7.7	27	18	12	39	mg/kg dry
Cobalt	14	ND	ND	ND	14	ND	16	13	14		mg/kg dry
Chromium	130	100	100	85	98	76	230	150	121	1200	mg/kg dry
Copper	600	560	620	430	440	500	950	720	603	1500	mg/kg dry
Mercury	3.7	2.5	2.5	2.8	2.7	3.1	6	4.2	3.4	17	mg/kg dry
Molybdenum	19	22	15	14	13	16	30	22	19	18	mg/kg dry
Nickel	110	82	88	73	88	68	140	100	94	420	mg/kg dry
Lead	75	56	57	43	69	41	120	66	66	300	mg/kg dry
Antimony	ND	ND	ND	ND	ND	ND	15	ND	ND		mg/kg dry
Selenium	6.2	6	5.4	4.8	4.2	4.8	9.8	7.2	6.1	36	mg/kg dry
% Solids	36.7	40.4	42.8	41.5	40.8	49.5	28.8	34.9	39		%
Thallium	ND	ND		mg/kg dry							
1,4-Bromofluorobenzene	40.6	32.2	30.1	7.57	9.29	27.5	43.5	41	29		mg/kg dry
TPH as Diesel	830	510	570	700	490	440	920	1100	695		mg/kg dry
TPH as Motor Oil	3900	2300	2700	3500	2300	2000	4200	4500	3175		mg/kg dry
1,4-Bromofluorobenzene	9.97	10	8.41	35	33	8.27	43.5	11.4	20		mg/kg dry
TPH as Gasoline	16	20	15	11	8.2	10	25	47	19		mg/kg dry
Vanadium	56	46	37	46	48	27	89	61	51		mg/kg dry
Zinc	1200	990	1200	810	810	930	2100	1500	1193	2800	mg/kg dry

City of Hayward
Aged Digester Sludge

Sample Date 4/11/2005
Analysis Date 4/13/2005 - 4/20/2005

	% Moisture	TPH as Diesel	TPH as Motor Oil	TPH as Gasoline
	%	mg/kg	mg/kg	mg/kg
Southwest Corner	29.9	210	1900	1.4
Northwest Corner	16.3	55	420	1.2
Middle Field North Section	12.9	11	96	1.4
Beginning of Aging Field N/E Corner	18.4	82	1100	9.8



BioVir Laboratories, Inc.

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REPORT OF SAMPLE EVALUATION

REPORT NO.: S050313A through S050313H

PAGE NO.: 1 of 2

CLIENT ADDRESS: City of Hayward
Water Pollution Control Facility
3700 Enterprise Ave.
Hayward, CA 94545

CLIENT NO.: HAY001

ASSAY RESULTS:

- | | | | |
|----|---|-------------|-------------------------|
| 1. | Helminth Ova Assay (EPA 625/R-92/013);
Analysis Begun Date: 02/25/05 | Time: 11:45 | Analyst Initials: SM |
| 2. | Enteric Virus Assay (ASTM D 4994-89);
Analysis Begun Date: 03/01/05 | Time: 09:00 | Analyst Initials: VAL |
| 3. | Salmonella Assay (SM18:9260D.1);
Analysis Begun Date: 02/23/05 | Time: 13:50 | Analyst Initials: RN |
| 4. | Fecal Coliform Assay: (SM18:9221E.1)
Analysis Begun Date: 02/23/05 | Time: 15:30 | Analyst Initials: RN |
| 5. | Total Solids Assay (SM18;2540B);
Analysis Begun Date: 02/23/05 | Time: 18:35 | Analyst Initials: KB/MP |

FOR RESULTS OF THIS REPORT SEE PAGE TWO

Post-it® Fax Note	7871	Date	9/29/05	# of pages	2
To	Alex Ameri	From	Farid R.		
Co./Dept.		Co.			
Phone #		Phone #			
Fax #		Fax #			

REPORT NO.: S050313A-H
 PAGE NO.: 2 of 2
 CLIENT NO.: HAYC01

NAME OF SAMPLER: Dexter Ball SAMPLE DATE: 02/23/05 SAMPLE TIME: 07:56 SAMPLE RECEIVED DATE/TIME/TEMP: 02/23/05 / 10:35 / 11.6 C								
SAMPLE SOURCE: Biosolids, Composite SAMPLE LOCATION: City of Hayward (WPCF) P.O. #:12966								
BIOVIR ID	LAB ID	SAMPLE LOCATION	SAMPLE VOLUME	TOTAL SOLIDS (TS) %	VIABLE HELMINTH OVA / 4 GRAMS TS	ENTERIC VIRUS PFU / 4 GRAMS TS	SALMONELLA MPN / 4 GRAMS TS	FECAL COLIFORM MPN / GRAM TS
S050313A	51021	Sludge Pile #1	297	64.5	<1	<1	<2.0	<1.9
S050313B	51022	Sludge Pile #2	244	58.3	<1	<1	<2.3	<2.0
S050313C	51023	Sludge Pile #3	254	56.5	<1	<1	<2.3	<2.1
S050313D	51024	Sludge Pile #4	217	57.7	<1	<1	<2.3	<2.0
S050313E	51025	Sludge Pile #5	308	59.8	<1	<1	<2.2	<2.0
S050313F	51026	Sludge Pile #6	250	50.0	<1	<1	<2.2	<2.0
S050313G	51027	Sludge Pile #7	287	72.6	<1	<1	<2.4	<2.2
S050313H	51028	Sludge Pile #8	294	64.2	<1	<1	<2.2	<2.1

*Less than" results represent the lowest detection limit for this assay.

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. BioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.

COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or otherwise disposed.

MAINTENANCE OF RECORDS: BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period.

3-29-05

COMPLETION DATE


 SIGNATURE/DATE

3-30-05

Metals

	Ag ppb	As ppb	Cd ppb	Cr ppb	Cu ppb	Fe ppb	Mn ppb	Mo ppb	Ni ppb	Pb ppb	Se ppb	Zn ppb
7/5 inf	6	62	4	7	80	2000	69	25	43	23	105	177
7/5 E-2	1	27	2	6	38	1110	39	11	14	7	49	51
7/14 inf	2	25	6	14	79	1940	49	<1	28	<2	23	146
7/14 E-2	2	25	4	2	35	1240	47	11	29	11	52	47
7/20 inf	5	53	4	15	89	2730	63	24	41	20	71	209
7/20 E-2	<1	16	2	8	23	1000	55	10	23	8	60	44
7/21 inf	4	48	3	6	89	2130	55	12	27	20	56	165
7/21 E-2	1	22	2	4	32	1100	61	8	23	14	50	50
7/230 inf	2	37	2	3	61	1350	49	12	14	17	50	125
7/23 E-2	<1	67	4	4	24	886	54	15	33	61	96	49
7/27 inf	1	6	15	9	37	1060	54	20	<1	9	42	61
7/27 E-2	2	14	28	<1	70	2330	63	29	<1	17	37	168
7/28 inf	1	12	17	<1	53	1230	41	9	<1	9	22	106
7/28 E-2	1	12	16	<1	45	1030	41	6	<1	10	14	108
8/2 inf	6	4	1	10	98	2900	64	16	11	<2	15	216
8/2 E-2	4	<2	1	6	19	2140	64	13	10	<2	9	61
8/3 inf	2	<2	2	9	58	2100	53	10	10	<2	3	182
8/3 E-2	2	<2	1	<1	14	1370	49	7	7	<2	<1	67
8/9 inf	3	17	2	19	158	4760	89	19	17	9	37	307
8/9 E-2	4	3	1	2	37	1500	59	9	7	<2	20	52
8/11 inf	2	10	1	7	81	2340	62	8	10	5	21	163
8/11 E-2	3	3	<1	2	27	1640	69	7	8	2	11	51
8/13 inf	4	13	2	10	125	4600	93	9	14	10	16	354
8/13 E-2	<1	2	<1	<1	31	1340	52	4	4	2	8	42
8/16 inf	4	8	1	7	74	1890	62	21	12	6	32	169
8/16 E-2	1	1	1	2	29	1330	55	12	6	<2	19	60
8/18 inf	3	8	2	5	76	2370	66	21	14	11	25	169
8/18 E-2	1	2	1	2	41	1560	61	9	7	4	20	64
8/27 inf	3	8	1	2	68	2020	56	7	7	8	12	166
8/27 E-2	2	3	1	<1	26	1411	48	6	21	6	8	46

Total Alkalinity

July 2005

		Digester # 1	Digester # 3
		TA	TA
1	M	2600	2600
2	T	2250	2250
3	W	2350	2350
4	T	2450	2450
5	F	2450	2450
6	S	2500	2500
7	S	2400	2400
8	M	2150	2150
9	T	2200	2200
10	W	2450	2450
11	T		
12	F	2500	2500
13	S	2850	2850
14	S	2300	2300
15	M	2150	2150
16	T	2400	2400
17	W	2250	2250
18	T	2400	2400
19	F	2250	2250
20	S	2400	2400
21	S	2400	2400
22	M	2300	2300
23	T		
24	W		
25	T		
26	F	2200	2200
27	S	2200	2200
28	S	2200	2200
29	M	2250	2250
30	T	2350	2350
31	W		
Total			
Ave.		2,354	2,354
Max.		2,850	2,850
Min.		2,150	2,150

Total Alkalinity
August 2005

		Digester # 1	Digester # 3
		TA	TA
1	M		
2	T	2300	2850
3	W		
4	T	2300	2750
5	F	2450	2850
6	S	2450	3050
7	S	2450	2900
8	M	2350	3100
9	T	2200	3200
10	W	2550	3000
11	T	2650	3100
12	F	2250	3100
13	S	2450	3100
14	S	2400	3050
15	M	2450	3150
16	T	2050	2900
17	W	2050	3000
18	T	2250	2750
19	F	2250	2900
20	S	2150	3100
21	S	2150	2800
22	M	2250	2050
23	T	2250	3000
24	W	2150	2850
25	T	2250	2800
26	F	2200	2700
27	S	2000	2750
28	S	1650	3000
29	M	2000	3100
30	T	2000	3400
31	W	2150	2850
Total			
Ave.		2,243	2,936
Max.		2,650	3,400
Min.		1,650	2,050

Cyanide Study

Analysis Date:	3/9/2005	4/8/2005	5/9/2005	6/15/2005	7/7/2005	8/4/2005	9/8/2005
Digestion Date:	3/9/2005	4/7/2005	5/9/2005	6/14/2005	7/8/2005	8/4/2005	9/8/2005
Sample Date:	3/2/2005	4/6/2005	5/4/2005	6/1/2005	7/6/2005	8/3/2005	9/7/2005
	Cyanide (mg/L)						
E-2 (g)	< 0.005	0.007	< 0.005	0.035	0.014	< 0.005	0.006
Inf (g)	< 0.005	0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005
E-2 (c)	< 0.005	0.015	< 0.005	0.012	0.028	< 0.005	0.007
Inf (c)	< 0.005	< 0.005	< 0.005	0.012	0.009	< 0.005	< 0.005
TF (g)	< 0.005	0.005		0.008	< 0.005	< 0.005	0.006
FC (g)	< 0.005	0.005		0.005	< 0.005	< 0.005	0.005

Note:

E-2	Effluent	(g)	Grab	Grab samples have Ascorbic acid at time of collection
Inf.	Influent	(c)	Composite	
TC	Tricling Filter			
FC	Final Clarifier			