PHASE I ENVIRONMENTAL SITE ASSESSMENT
PORT OF OAKLAND
1275-1441 EMBARCADERO
OAKLAND, CALIFORNIA

Prepared for

Port of Oakland
Oakland, California

Prepared by

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CERTIFICATION

This environmental review of the properties located at 1275-1441 Embarcadero in Oakland, California was conducted by Iris Environmental on behalf of the Port of Oakland. The review conducted by Iris Environmental meets or exceeds the requirements for a Phase I environmental site assessment specified in the American Society for Testing and Materials (ASTM) Standard E 1527-00, *Standard Practice for Environmental Site Assessments: Phase I Environmental Assessment Process.*

Resumes for the environmental professionals involved in this review, Ms. Smith and Mr. Fitzwater of Iris Environmental, are included in Appendix A.

Karen T. Smith a.t.f.o.

Karen T. Smith, R.E.A.
Manager

Date 3/15/02

Phillip L. Fitzwater
Principal

Date 3/15/02

LIMITATIONS

This report has been prepared exclusively for use by the Port of Oakland and may not be relied upon by any other person or entity without the express written permission of Iris Environmental. The conclusions presented in this report represent Iris Environmental's professional judgment based on the information available to us during the course of this assignment and on conditions that existed at the time of the assessment. No independent verification of the information provided to Iris Environmental was made. While Iris Environmental has no reason to doubt the accuracy of any of the information provided, this report is accurate and complete only to the extent that information provided to Iris Environmental was itself accurate and complete.

I. INTRODUCTION

On behalf of the Port of Oakland, an environmental review of the properties located at 1275-1441 Embarcadero in Oakland, California ("the Site") was conducted. The purpose of the review was to identify any recognized environmental conditions, as defined in the American Society for Testing and Materials (ASTM) Standard E 1527-00, *Standard Practice for Environmental Site Assessments: Phase I Environmental Assessment Process.*

This report presents the results of our investigation. It is based primarily on the following:

- Visits to the Site by Ms. Karen Smith of Iris Environmental on December 11 and 12, 2001.

- Interviews with Ms. Sunni Rounds, Commercial Real Estate, Port of Oakland and Mr. Reinhard Boost, General Manager, Marine Max.

- A review of documents provided by Port of Oakland personnel.

- A review of the United States Geological Survey (USGS) 7.5-minute topographical maps for Oakland East and Oakland West, California dated 1993 and historical topographic maps of the same two quadrangles dated 1949, 1959, 1968, 1973, and 1980.

- A review of historical aerial photographs dated 1930, 1950, 1959, 1969, 1979, 1989, and 1998 at Pacific Aerial Surveys in Oakland, California.

- A review of historical fire insurance maps dated 1903, 1911, 1950, 1952, 1953, 1957, 1959, 1960, 1964, 1965, 1967, and 1969 provided by Environmental Data Resources, Inc. (EDR).

- A review of city directories dated 1972, 1976, 1979, 1985, 1990, and 1997 provided by Fidelity National Information Solutions (FNIS).

- A review of permit information on file at the City of Oakland Building Department.
- A review of documents on file at the City of Oakland Fire Department (OFD).
- A review of documents on file at the Regional Water Quality Control Board (RWQCB).
- A search of regulatory agency databases for the Site and vicinity conducted by VISTA Information Solutions, Inc. and reported on October 30, 2001. A copy of the VISTA report is presented as Appendix B.

In addition, a file review request was submitted to the Alameda County Health Care Services Agency (ACHCSA). ACHCSA personnel reported that no records were on file for the 1275-1363 Embarcadero Site addresses and that the ACHCSA case is closed for the 1441 Embarcadero Site address. ACHCSA personnel indicated that the OFD should be contacted for records relating to the 1441 Embarcadero property.

No environmental or drinking water samples were collected as part of this assessment.

II. FINDINGS AND CONCLUSIONS

This Phase I environmental site assessment of the properties located at 1275-1441 Embarcadero in Oakland, California (the "Site") has been conducted in conformance with the scope and limitations of ASTM Practice E 1527-00. Any exceptions to, or deletions from, this practice are described in Section IV of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property, except for the following:

1275 Embarcadero

- An underground storage tank (UST) was removed from the 1275 Embarcadero property in 1970. Recent soil and groundwater investigations in the vicinity of the former UST conducted in 2000 and 2001 indicate that soil and groundwater have been impacted by total petroleum hydrocarbons (TPH) as gasoline, TPH as diesel, TPH as motor oil, benzene, toluene, ethylbenzene, and xylenes (BTEX), several volatile organic compounds (VOCs), and a few semivolatile organic compounds (SVOCs). A risk-based screening level (RBSL) evaluation conducted for the property indicated that the chemicals detected in soil and groundwater do not pose unacceptable risks to human health or the environment under the current plans for Site redevelopment.

1285 Embarcadero

- Previous reports indicate that hollow areas exist beneath the current concrete floor in the building located at 1285 Embarcadero and that these areas may represent current or former locations of sumps. One subsurface cavity identified beneath the concrete floor in the building was identified as a potential former resin tank for coating fiberglass rolls used for boat repairs. Several chlorinated solvents were detected in a groundwater sample collected from the location of the subsurface cavity. No other chemicals were detected in the groundwater or soil samples from this location. No additional information regarding soil or groundwater investigations conducted at the 1285 Embarcadero property was found during this assessment.

1363 Embarcadero

- Staining of the concrete floors in the three buildings located on the 1363 Embarcadero property (Port Buildings P-104, P-113, and P-114) was noted during the site visit. In addition, staining was noted on the concrete ground surface on the western side of Building P-113 in an area where hazardous materials, such as new and used oil and antifreeze, are stored.

1441 Embarcadero

Numerous soil and groundwater investigations have been conducted on the 1441 Embarcadero property between 1989 and 1997 under the oversight of the Alameda Health Care Services Agency (ACHCSA). The ACHCSA has overseen investigation and remedial activities related to two former USTs under the Local Oversight Program (LOP). All other investigations and remedial activities at the 1441 Embarcadero property were conducted with oversight from the ACHCSA's Spills, Leaks, Investigations, and Cleanups (SLIC) program. The SLIC and LOP cases for the 1441 Embarcadero property were closed in 1999 and 2000, respectively, as discussed in the following two bullets.

- Two USTs were removed from the property in 1991 and 1994. ACHCSA oversaw soil and groundwater investigations in the vicinity of the two former UST locations under the LOP program. The LOP case for the 1441 Embarcadero property was closed by the ACHCSA in January 2000 when the ACHCSA issued a Fuel Leak Case Closure letter (ACHCSA 2000a) and a Remedial Action Completion Certification (ACHCSA 2000b), which confirmed the completion of the investigation and cleanup of the reported release from the former USTs at the 1441 Embarcadero property. The Fuel Leak Case Closure letter indicates that 72 parts per million TPH as diesel remained in soil and 440 parts per billion TPH as diesel remained in groundwater at the 1441 Embarcadero property (note: units as reported in the Case Closure letter). In addition, a Case Closure Summary (ACHCSA 2000c) attached to the Fuel Leak Case Closure letter indicates that the corrective action taken at the 1441 Embarcadero property should be reviewed if land use changes.

- ACHCSA oversaw investigation and remediation activities at the 1441 Embarcadero property related to contamination caused by surface releases resulting from historical ship repair activities under the SLIC program. A Site Summary prepared by the ACHCSA (ACHCSA 2000d) indicates that an extensive SLIC investigation was conducted at the 1441 Embarcadero property and that the SLIC investigation was closed in June 1999. A closure letter from the ACHCSA for the SLIC investigation was not found during this assessment.

Based on the closure of the ACHCSA's LOP and SLIC cases for the 1441 Embarcadero property, it appears that the ACHCSA considers investigation and remediation activities to be complete at the 1441 Embarcadero property. However, based on a review of documents on file at the Port, several issues regarding the presence of chemicals in soil at the 1441 Embarcadero property were identified, and no documentation of resolution of these issues was found. Because these issues pre-date the ACHCSA's LOP and SLIC case closures, it is likely that they were resolved. In order to confirm that these issues were in fact resolved, it may be necessary to contact ACHCSA. The following issues were identified:

- An addendum to a Phase II Site Investigation Work Plan prepared in 1992 (Versar 1992b) indicates that four areas of identified soil contamination in the western section of the 1441 Embarcadero property were to be excavated and treated via on-site thermal treatment. The planned excavation was intended to remove soils exceeding limits for BTEX and TPH approved in a letter from the ACHCSA. It was estimated that approximately 3,500 cubic yards of soil would be excavated, treated on-site, and reused as backfill on-site. No additional information regarding excavation activities on the western portion of the 1441 Embarcadero property was found during this assessment. However, because the ACHCSA closed the SLIC case at the 1441 Embarcadero property, it is likely that the soils containing elevated BTEX and TPH concentrations were excavated.

- In 1995, approximately 40 tons of soil from two locations on the eastern portion of the 1441 Embarcadero property with lead concentrations in soil that exceeded the total threshold limit concentration (TTLC) or soluble threshold limit concentration (STLC) for lead, which are used when determining the hazardous waste characterization under California State regulations, were excavated. Confirmation soil samples collected after the soil excavation activities indicated that lead concentrations exceeding the TTLC or STLC were present. Additional soil samples collected in February 1996 contained a maximum lead concentration of 4,100 milligrams per kilogram (mg/kg). No information regarding additional excavation activities was found during this assessment; however, a letter from the ACHCSA indicated that the elevated lead concentrations at the 1441 Embarcadero property would have to be addressed prior to closure of the SLIC case. Since the ACHCSA closed the SLIC case, it is likely that the elevated lead concentrations were addressed.

- A risk assessment for the 1441 Embarcadero property was prepared in 1996 and submitted to the ACHCSA. The risk assessment was updated using additional data collected from the 1441 Embarcadero property in 1998. The excess cancer risk calculated for an industrial worker was above the acceptable cancer risk of 1.0×10^{-6}, and the hazard index (HI) was below the acceptable HI of 1.0. The risk assessment concluded that the excess cancer risk resulted entirely from the detection of polycyclic aromatic hydrocarbons (PAHs) in two soil samples. No information regarding excavation of soils containing elevated PAH concentrations was found during this assessment. It should be noted that the ACHCSA reviewed the results of the risk assessment prior to closing the LOP case in January 2000.

Finally, it should be noted that results of a recent investigation conducted by Baseline Environmental Consulting (Baseline) in 2001 indicated that the lead concentration detected in a composite soil sample collected from the 1441 Embarcadero property contained lead at a concentration of 1,500 mg/kg, which is above the TTLC of 1,000 mg/kg, which indicates that the soil would be considered a California hazardous

waste if excavated for off-site disposal purposes. Baseline concluded that further characterization of the soils on the 1441 Embarcadero property would be required prior to development if soils were to be excavated from the 1441 Embarcadero property.

The following issues identified at the Site, while not recognized environmental conditions, are considered noteworthy:

1311 Embarcadero

- Records on file at the Oakland Building Department indicate that Standard Oil Company operated at the 1311 Embarcadero property in 1972. No information regarding the operations conducted by Standard Oil Company was found during this assessment.

1363 Embarcadero

- An UST was removed from the 1363 Embarcadero property in 1994. Soil and groundwater samples were collected from the excavation, groundwater was pumped from the excavation, and a total of approximately 35 cubic yards of soil were excavated. Based on the results of the soil and groundwater sampling, the ACHCSA issued a No Further Action letter to the Port for the UST in January 1995.

1441 Embarcadero

- Sediment contamination was identified during investigations at the 1441 Embarcadero property. Contaminated sandblast grit was vacuumed and swept from the property in 1995, and a work plan for removal of spent sandblast grit from the inter- and supra-tidal zones was submitted to the Regional Water Quality Control Board (RWQCB). The RWQCB issued a Cleanup and Abatement Order (CAO) for the 1441 Embarcadero property in July 1996, which related to removal of loose grit from the inter-tidal and supra-tidal zones and incorporated the work plan. In March 1997, approximately 3,500 tons of grit were removed from the 1441 Embarcadero property and disposed of at an

approved landfill. The RWQCB rescinded the CAO in April 1998 in a letter indicating that Board staff concurred with the scope of work completed and that the work was satisfactory in response to the CAO.

Site-Wide

- The VISTA report, which is reproduced in Appendix B, indicates that 23 leaking underground storage tank (LUST) facilities are located within one half-mile of 1275-1441 Embarcadero. Of the 23 LUST facilities, one facility, Cooper Tire Shop, which is located 0.13 miles from 1275-1441 Embarcadero in a potentially upgradient location (assuming groundwater flows southwest toward Brooklyn Basin), has had a confirmed release from an UST. The Cooper Tire Shop is located across Highway 880 to the north of 1275-1441 Embarcadero. The VISTA report indicates that the affected media at the Cooper Tire Shop is not known. Given the distance from 1275-1441 Embarcadero and location across Highway 880, it is unlikely that releases from the Cooper Tire Shop have impacted 1275-1441 Embarcadero.

In addition to the standard scope of the ASTM practice, the Port of Oakland requested identification of gaps in known Site history. The following are gaps in known Site history identified during this assessment:

1275 Embarcadero

- Permits on file at the Oakland Building Department (OBD) indicate that Acme Pallet Company operated on the 1275 Embarcadero property between 1954 and 1960, and records on file at the Port indicate that Acme Pallet Company operated on the 1275 Embarcadero property between 1965 and 1969. No information on tenants or operations conducted on the 1275 Embarcadero property prior to 1954 was found during this assessment.

1285 Embarcadero

- Historical fire insurance maps indicate that a lumber shed was located on the 1285 Embarcadero property in 1950. No information regarding the tenant(s) or

operations in the lumber shed or earlier operations conducted on the property was found during this assessment. Edwards Heat Treating operated on the 1285 Embarcadero property between 1956 and 1974. Permit information on file at the OBD indicate that East Bay Boat Works, Inc. occupied the 1285 Embarcadero property in 1975 and that BMW Marine Power, Inc. occupied the property between 1980 and 1983. Records on file at the Port of Oakland indicate that a BMW dealership was located on the property in 1987. No information regarding operations conducted on the property between 1975 and 1980 or regarding the type of operations conducted by East Bay Boat Works, Inc. or BMW was found during this assessment.

1311 Embarcadero

- Historical fire insurance maps indicate that a lumber shed was located on the 1311 Embarcadero property in 1950 and that buildings used for boat storage and repair were located on the property in 1959. No information regarding the tenant(s) or operations in the lumber shed or boat storage/repair buildings or earlier operations was found during this assessment. Records on file at the OBD indicate that Chrysler Boats/Outboard Motors operated on the 1311 Embarcadero property in 1967 and that Standard Oil Company operated on the property in 1972. No information regarding operations conducted by Chrysler and Standard Oil was found during this assessment, and no information regarding operations conducted between 1959 and 1967 and 1972 and 1983 was found.

1363 Embarcadero

- Records on file at the OBD indicate that Baycraft Boats Limited operated on the 1363 Embarcadero property in 1948. Historical fire insurance maps indicate that buildings used for boat works and a machine shop were located on the 1363 Embarcadero property in 1950 and 1957. No information regarding tenants or operations conducted in these buildings or earlier operations was found during this assessment. OBD records indicate that Dusty Rhodes conducted boat sales and service on the property in 1958, Steve's Marine conducted marine sales between 1972 and 1979, and Bell Marine operated at the property in 1983. No

information regarding tenants or operations conducted between 1958 and 1972 and 1979 and 1985 was found during this assessment.

1441 Embarcadero

- The 1441 Embarcadero property was filled in approximately 1913 with permission from the Oakland City Council using fill consisting of mud from the bottom of the Oakland Inner Harbor. A boat repair and marine railway facility operated on the 1441 Embarcadero property between 1911 and 1991. Detailed information about operations conducted on the property throughout the 80-year period of operation was not found during this assessment.

Site-wide

- The western portion of the Site (1275-1363 Embarcadero) was filled subsequent to 1913. No information regarding the date of the western filling operations or source of the western fill materials was found during this assessment.

- In addition, some information, such as a tenant name, is known for various years for portions of the Site, but detailed information on many of the tenants, such as type of operations conducted, was not found during this assessment.

III. DESCRIPTION OF THE SITE AND ITS OPERATIONS

A. Site Description and History

1. Physical Description and Setting

The Site is an approximately 4.5-acre property located at 1275-1441 Embarcadero in Oakland, California, as shown on Figure 1, which is owned by the Port of Oakland. The Site consists of five properties identified by the following individual current street addresses: 1275, 1285, 1311, 1363, and 1441 Embarcadero, as shown on Figure 2. These addresses will be used throughout this report to discuss each portion of the Site.

An approximately 4,800 square-foot former restaurant building (Port Building P-117) is located on the 1275 Embarcadero property. The building is currently surrounded by a chain link fence that restricts public access to the building. The restaurant building is vacant and unused, and all restaurant equipment, such as dining tables, chairs, refrigerators, and freezers, has been removed from the building. Paved parking areas are located on the west, north, and east sides of the building. Landscaping and a paved walkway are located on the west side of the building. At the time of the site visit, seven storage containers were located in the paved parking lot areas. According to Ms. Rounds, the construction company working on the adjacent property to the west stores construction equipment in the storage containers.

Marine Max leases five buildings located at 1285, 1311, and 1363 Embarcadero. The building located at 1285 Embarcadero (Port Building P-106) is approximately 6,500 square feet and is used by Marine Max as a boat sales showroom. Motorboats are stored inside the building and outdoors on the northern and eastern sides of the building, which are paved. A paved driveway is located on the west side of the building, and a paved walkway and landscaping are located on the southern side of the building. A paved parking lot, which is used for vehicle parking, is located between the buildings located at 1285 and 1311 Embarcadero. An approximately 5,000 square-foot building (Port Building P-108) is located at 1311 Embarcadero east of the parking lot. Marine Max uses the building for boat storage. The area on the north side of the building is paved and was unused at the time of the site visit. Numerous boats were stored on the east side of the building, and the area on the southern side of the building was paved and used for vehicle

parking. Three buildings are located at 1363 Embarcadero east of the boat storage area. An approximately 4,500 square-foot building (Port Building P-104) houses Marine Max's boat service and repair operation as well as a boat supply retail store. One of the two smaller buildings located on the south side of the service building is used for storage of parts and boat decorations (Port Building P-113), and the other small building (Port Building P-114) is used for upholstery repairs and storage.

The 1441 Embarcadero property is currently vacant and unused. A chain-link fence is located along the northern boundary of the property, and no structures are located on-site. A portion of the property is covered with deteriorated asphalt, and the remainder of the property is covered with dirt, gravel, and/or grasses. No major vegetation is located on the property. The property was not entered through the locked fence, but no evidence of major staining was noted based on observations made through the fence.

The Site is located in a commercial/industrial area in western Oakland. Embarcadero Road is located along the northern side of the Site, and railroad tracks and Interstate 880 are located north of Embarcadero Road. The property located on the east side of the Site is occupied by an Executive Inn hotel. Brooklyn Basin, which is part of the Oakland Inner Harbor, is located on the southern side of the Site. Several boat docks owned by the Port of Oakland are located in the Basin, and a small building, which was formerly the harbormaster's house, is located south of the on-site building located at 1311 Embarcadero. A nonhazardous waste dumpster and an aboveground waste oil storage tank are located adjacent to the harbormaster's house. An office trailer occupied by Integre Marine, which conducts boat sales, is located in the paved parking lot on the west side of the 1275 Embarcadero property. According to Ms. Rounds, Integre Marine leases approximately 1,000 square feet of space in the parking lot for the office trailer and parking. The address on the Integre Marine trailer is 1155 Embarcadero. A Homewood Suites by Hilton hotel is under construction adjacent to the west side of the Integre Marine trailer. During the site visit, no observations of any obvious conditions at any neighboring properties that likely represent significant environmental concerns to the Site were made. The nearest residents to the Site are residents who live in the boats that are anchored at the Port's docks on the south side of the Site.

According to Mr. Boost, water and sewer services are provided to the Marine Max buildings by the City of Oakland, and electricity and natural gas are provided by Pacific

Gas & Electric (PG&E). According to Ms. Rounds, the former restaurant building is connected to the City of Oakland water and sewer systems. Ms. Rounds stated that all electricity and natural gas supplies to the former restaurant building have been shut off.

2. General Site Conditions

At the time of the site visit, the building located at 1275 Embarcadero was vacant and unused. The building was locked and surrounded by a fence to prevent unauthorized entry. The exterior and interior of the building were in relatively good condition, although some storm water was ponded on the floor in the restaurant where a recent roof leak had occurred.

The Marine Max buildings located at 1285, 1311, and 1363 Embarcadero were in good condition at the time of the site visit. Some staining was noted on the concrete floors of the three buildings located at 1363 Embarcadero. The paved areas surrounding the Marine Max buildings appeared to be in good condition, and no major staining was noted during the site visit, with the exception of staining noted near an outdoor chemical storage area located on the west side of Building P-113 on the 1363 Embarcadero property.

A chain link fence located on the northern side of the 1441 Embarcadero property prevents unauthorized access to the property. The property is vacant and unused, and no structures are located on-site. Portions of the property are covered with asphalt that appeared to be deteriorated, and no major staining was noted on the surfaces of the 1441 Embarcadero property during the site visit.

Although the detection of noise and odors is dependent on the weather conditions and ongoing operations at the time of the site visit, strong odors or excessive noise were not noted at the Site.

3. Hydrogeological Setting

Based on a review of the Oakland East and Oakland West USGS topographic maps, ground elevation at the Site is approximately 10 feet above mean sea level. The topography of the Site is generally flat. The nearest surface water is the Brooklyn Basin, which is adjacent to the south side of the Site. Brooklyn Basin is part of the Oakland Inner Harbor, which is part of the San Francisco Bay. Storm water at the Site discharges

into storm drains located throughout the paved parking areas on the Site. It is likely that these storm drains discharge to Brooklyn Basin.

Ms. Rounds and Mr. Boost were not aware of the depth to groundwater in the vicinity of the Site. Based on the results of a recent investigation conducted in August 2001, depth to groundwater beneath the 1275 Embarcadero property is between five and nine feet below grounds surface (bgs) (Iris-Cambria 2001). The most recent groundwater elevations measurements collected from the six wells formerly located on the 1441 Embarcadero property in March 1997 indicate that groundwater was present between three and seven feet bgs on the eastern portion of the Site (Gauntlett 1997). Based on a review of the Oakland East and Oakland West USGS topographic maps, regional groundwater likely flows to the southwest toward Brooklyn Basin and the San Francisco Bay. However, the recent investigation on the 1275 Embarcadero property indicates that local groundwater flow beneath the western portion of the Site is to the northeast. Historical investigations on the eastern portion of the Site (1441 Embarcadero) indicate that groundwater flowed radially away from former well MW-4 and that the groundwater flow direction at the 1441 Embarcadero property has been variable and is likely strongly influenced by tides given the Site's proximity to the Bay (Gauntlett 1997).

Ms. Rounds and Mr. Boost were not aware of any water production wells on-site, and evidence of such was not observed during the site visit or found during the review of documents on file at the Port and local regulatory agencies.

B. Site History

Based on a review of documents on file at the Port of Oakland, development of the Site began in approximately 1913 with the filling of the 1441 Embarcadero property. The remainder of the Site was filled after 1913. The following is a summary of the history of each of the Site addresses based on a review of records on file at the Port as well as permit information available at the Oakland Building Department (OBD).

1275 Embarcadero

Permits on file at the OBD indicate that Acme Pallet Company operated on the 1275 Embarcadero property between 1954 and 1960, and records on file at the Port indicate that Acme Pallet Company was a manufacturer of pallets, skids, and lumber products that operated on the

property between 1965 and 1969 (Port of Oakland 1994). A 1970 drawing on file at the OBD (Drawing BB-3132, which is included in Appendix B) shows that the Acme Pallet Company consisted of former Port Building P-105, several small wood frame sheds, an underground steel gasoline storage tank and pump, and an incinerator. In 1970, Building P-105 and the storage sheds were demolished, and the underground storage tank (UST), gasoline pump, and incinerator were removed from the 1275 Embarcadero property (Port of Oakland 1994). In 1973, construction of a restaurant building began at the 1275 Embarcadero property, and Barclay Jack's Restaurant opened in 1974. The restaurant was later operated as a Hungry Hunter franchise, which discontinued operations in 1996. The 1275 Embarcadero property has been unused since 1996.

1285 Embarcadero

The 1285 Embarcadero property was occupied by Edwards Heat Treating, a custom heat treater of metals that used an electrical transformer and potentially other high voltage equipment, between 1956 and 1974 (Port of Oakland 1993). Permit information on file at the OBD indicates that East Bay Boat Works, Inc. occupied the 1285 Embarcadero property in 1975 and that BMW Marine Power, Inc. occupied the property between 1980 and 1983. An ACHCSA Facility Questionnaire on file at the OFD indicates that a BMW dealership occupied the building prior to 1987 when Summit Marine began operating a boat sales and minor boat servicing operation. An ACHCSA Inspection Form dated September 1991, which is on file at the OFD, indicates that Harrison's Sea Ray used the on-site building as a motorboat showroom. According to Mr. Boost, Harrison's Marine and SeaRay merged in 1998 to create Marine Max, which is a nationwide business. According to Mr. Boost, Marine Max has operated a boat sales showroom on the property since 1986.

1311 Embarcadero

Records on file at the OBD indicate that Chrysler Boats/Outboard Motors operated on the 1311 Embarcadero property in 1967 and that Standard Oil Company operated on the property in 1972. Records on file at the Port of Oakland Legal Department indicate that the Port issued a lease to Empire Sailing in April 1983 for Building P-108 at 1301 Embarcadero, which currently uses the 1311 Embarcadero address. Legal Department files also indicate that Harrison's occupied Building P-108 at 1311 Embarcadero between May 1983 and April 1989. The building located

on the property was used as a Marine Max boat showroom and the Gangplank Restaurant in 1993 (Port of Oakland 1993) and is currently used by Marine Max for boat storage.

1363 Embarcadero

Records on file at the OBD indicate that Baycraft Boats Limited operated on the 1363 Embarcadero property in 1948, Dusty Rhodes conducted boat sales and service on the property in 1958, Steve's Marine conducted marine sales between 1972 and 1979, and Bell Marine operated at the property in 1983. Records on file at the Port of Oakland Legal Department indicate that the lease for four buildings located on the 1363 Embarcadero property (P-104, P-113, P-114, and P-115W) was assigned to Harrison's Boat Center from Empire Sailing in August 1985. Building P-115W has since been removed from the 1363 Embarcadero property. A September 1990 ACHCSA Inspection Form indicates that Majestic Yachts conducted a used yacht sales operation at the 1363 Embarcadero property, and that Majestic Yachts was doing business at the property in 1987 as Bell Marine. A September 1991 ACHCSA Inspection Form indicates that Marine Performance and Engineering operated a marine engine servicing operation at 1363 Embarcadero beginning in November 1990. In 1993, the main building on the 1363 Embarcadero property (P-104) was used by Harrison's Marine Centers for storage of files and miscellaneous materials (Port of Oakland 1993). In 1993, Building P-114 was occupied by Majestic Yachts, which conducted a repair and servicing operation in the building (Port of Oakland 1993). A 2,000-gallon inactive UST was located near Building P-114 in 1993 (Port of Oakland 1993). The UST was removed from the 1363 Embarcadero property in October 1994 (Alisto 1994). A 1998 Hazardous Materials Business Plan for Harrison's Boat Center indicates that the main building on the property (P-104) was used as an office and service shop, that Building P-113 was used as an office, and that Building P-114 was used as a service shop. Currently, Marine Max operates retail sales and boat repair operations in the main building (P-104). The two smaller buildings (P-113 and P-114) are currently used by Marine Max for equipment storage.

1441 Embarcadero

Prior to 1913, the 1441 Embarcadero property consisted mostly of soft mud where a creek had emptied into the Oakland Inner Harbor. With permission from the Oakland City Council, Crowley Marine Services (Crowley) deposited approximately 36,000 cubic yards of fill, which consisted of mud from the bottom of the Oakland Inner Harbor covered with rock and gravel, to

cover the entire property. Crowley operated a boat repair and marine railway facility (Pacific Dry Dock and Repair Company) on the 1441 Embarcadero property between approximately 1911 and 1991 (ACHCSA 1999a). The primary activity conducted at the 1441 Embarcadero property was the repair and renovation of boats and sea-going vessels. Two marine railways, machine and carpentry shops, warehouses, and support offices were operated at the 1441 Embarcadero property (ACHCSA 1999a). Barnacles, rust, paint, and other debris were removed from the hulls of vessels using high-pressure streams of water or sandblasting. Most of the grit and detritus was collected from the railway platform that the vessels rested on during cleaning operations. However, some grit accumulated in the estuary and inter-tidal zone (RWQCB 1996). Although operations were discontinued in 1991, during an investigation of the 1441 Embarcadero property conducted in 1996, the two marine railways, a docking area, piers, and several buildings, including a machine shop, gear house, and paint shop, and concrete building foundations remained on-site (Geomatrix 1997a).

Historical aerial photographs, historical fire insurance maps, historical topographic maps, city directories, and permits on file at the Oakland Building Department were reviewed to confirm historical uses of the Site and identify uses of the surrounding area. Copies of the historical aerial photographs, historical fire insurance maps, historical topographic maps, and city directories are included in Appendix B. The following is a summary of the information found in these historical sources.

The earliest source of historical information, a 1903 Sanborn map, indicates that the Site was part of the Oakland Harbor tide flats. The Site appears unchanged on the 1911 Sanborn map with the exception of a small wharf, which extends into the tide flats south of 14th Avenue. On the 1930 aerial photograph, the eastern side of the Site appears to have been filled, and three small buildings are located on the 1441 Embarcadero property. The western portion of the Site appears to be tidal flats or partially filled land. The eastern portion of the Site has been filled and a small office building and long, rectangular lumber shed were located on the 1285 and 1311 Embarcadero properties. A building located in the current location of P-104 is used for "boat works" with a machine shop, and two small buildings, which appear to be in the current location of Buildings P-113 and P-114, are used for storage. One additional small building located west of Buildings P-113 and P-114 is used for storage. The Pacific Dry Dock & Repair Company (PDDRC) shipyard is evident east of Buildings P-104, P-113, and P-114. The shipyard consists of a storage yard, three storage buildings, a planing mill, a pipe shop building, a machine shop

building, a warehouse, and a building housing a tool room. A crane track is located adjacent to a small inlet, and two areas labeled as "marine ways," which were the dry dock areas, are located east of the inlet. The ship dry docks are evident on the 1950 aerial photograph. A storage building, an office and storage building, and two ways warehouses are located adjacent to the marine ways. A notation on the Sanborn map indicates that the PDDRC facility had a "40-gallon chemical cart" and "numerous 2 ½ gallon chemicals," although the map did not indicate storage locations of these chemicals. The Site appears similar to the 1950 Sanborn map on the 1950 aerial photograph and 1949 topographic map.

No significant changes were noted on the 1952 Sanborn map. The small wharf that was located near the westernmost portion of the Site is no longer evident, and the office building located adjacent to the lumber shed has been removed and replaced by a smaller office building in the same location. The 1953 Sanborn map indicates that the lumber shed has been removed from the Site, and a small building that is labeled "oil warehouse" has been constructed on the PDDRC property. The PDDRC shipyard appears similar on the 1957 Sanborn map with the exception of the addition of four aboveground storage tanks (ASTs) located south of the two storage buildings on the westernmost portion of the PDDRC property (adjacent to the east side of current Building P-114). The Sanborn map indicates that the ASTs were steel oil holding tanks. The notation regarding the capacities of the ASTs appears to be 2,000 or 12,000 gallons each, although the notation on the Sanborn maps is not clear enough to determine the capacity. The 1957 Sanborn map also indicates that paint storage has been added to the "comp'r and ways" warehouse. The two small buildings located in the current location of P-113 and P-114 appear to have been replaced by two new buildings that are used for boat storage (P-113) and as a boat shop (P-114), and the third storage building that was formerly located in this area appears to have been removed. The Sanborn map indicates that the area to the west of these buildings is filled land that does not appear to be used. A boat sales and storage yard with a small office building, which is in the current location of Building P-110 or P-112, and an area used for boat storage is located west of the unused area. A building used for "heat treating," which appears to be current Building P-106, is located west of the boat sales and storage yard. Two small storage buildings, a small office building, a small lumber storage building, a 10-foot tall cooling tower, and an area or building labeled "sawing" are located west of the heat treating building. An area or building labeled "pallet nailing" is located west of this area, and scattered lumber piles are located on the westernmost portion of the Site.

The Site appears similar on the 1959 Sanborn map and 1959 aerial photograph. Four new buildings have been constructed in the area to the west of the PDDRC shipyard that was formerly unused. The four buildings consist of a building that houses boat sales and a restaurant (current Building P-108), an office building, a boat repair building, and an outboard motor repair building. No significant changes to the Site are evident on the 1960, 1964, 1965, 1967, and 1969 Sanborn maps and 1969 aerial photograph, with the exception of one additional building located on the PDDRC property, which is labeled "steel fabricating." The 1959, 1968, and 1973 topographic maps indicate that two buildings were located on the western portion of the Site, but do not show any details (such as buildings or other structures) on the eastern portion of the Site. Several additional small buildings are evident on the Site on the 1980 topographic map.

The 1979 aerial photograph indicates that three small buildings located south and southwest of Building P-108 have been removed from the Site. In addition, the buildings that were located to the west of Building P-106 that were used for sawing and pallet nailing have been removed and replaced by Building P-117. No significant changes to the PDDRC property are evident on the 1979 aerial photograph.

By 1998, all buildings and structures on the PDDRC property had been removed, and the property appeared to be vacant with a graded ground surface on the 1998 aerial photograph. No buildings were evident on the Site east of P-104. The remainder of the Site buildings appear as they are currently.

The city directories provide the names of residents or businesses, which operated from each Site address during the period 1972 to 1997. The names of the residents or businesses at each address are summarized in Table 1. As shown in Table 1, businesses that operated at the Site during this time period are primarily marine-related (e.g., Bayliner Boats, SeaRay, Seahorse Yacht Sales, Steve's Marine, Inc.). In addition, several individuals are listed at several of the addresses. It is not known whether these were residents or contact people at various businesses at the Site.

C. Description of Operations

No operations are currently conducted on the 1275 and 1441 Embarcadero properties. Marine Max conducts boat sales and service operations in the buildings located at 1285, 1311, and 1363 Embarcadero. A description of operations at each of the Site properties is provided below.

1275 Embarcadero (Port Building P-117)

A building that was formerly operated as a restaurant is located on the 1275 Embarcadero property. The building is currently unused, and no operations are conducted in the building. The parking lot surrounding the building was being used by the construction company working on the adjacent Homewood Suites property for storage of containers used to store construction equipment. At the time of the site visit, seven storage containers were located on the north and east sides of the building. The interiors of the storage containers were not inspected during this assessment. No evidence of staining was evident around the bases of the containers at the time of the site visit.

1285 Embarcadero (Port Building P-106)

Marine Max operates a boat sales showroom in the building located at 1285 Embarcadero. The building is used to display motorboats. Several offices are located on the southern side of the building, and a small kitchen area is located on the northern side of the building. According to Mr. Boost, no chemicals or other hazardous materials are stored in the building.

1311 Embarcadero (Port Building P-108)

Marine Max uses the building located at 1311 Embarcadero for storage of motorboats, boat racks, and boat covers. A second story mezzanine level is used for office space. According to Mr. Boost, no other operations are conducted in the building.

1363 Embarcadero (Port Buildings P-104, P-113, and P-114)

Marine Max conducts operations in three buildings located on the 1363 Embarcadero property. The northern end of Building P-104 is used as a retail sales room for boating supplies, including gear lubricant, motor oil, steering fluid, and engine oil, which are sold in one-gallon or smaller containers. Several offices are also located in the building. The southern end of Building P-104 is used for boat servicing. According to Mr. Boost, repair services conducted in the building range from tune-ups to engine rebuilds. Boats are also serviced on the water in slips located in Brooklyn Basin. The two smaller buildings, P-113 and P-114, are primarily used for equipment storage. Building P-113 is used for

storage of boat parts and decorations, and Building P-114 is used for upholstery repairs and storage.

1441 Embarcadero

No operations are currently conducted at the 1441 Embarcadero property. The property is vacant and unused, and a chain link fence prevents unauthorized access to the property.

D. Polychlorinated Biphenyls (PCBs)

Ms. Rounds and Mr. Boost were not aware of any PCB-containing equipment on-site. Two pad-mounted transformers were observed on-site during the site visit. One transformer was located on the north side of the 1275 Embarcadero building adjacent to the street, and the other transformer was located on the south side of the 1311 Embarcadero building in the paved parking area. No signs of leakage or staining was noted on the concrete pads beneath the transformers. Based on the dates of construction of several of the on-site buildings, it is possible that PCBs may be present in light ballasts in the buildings.

E. Hazardous Materials Use and Storage

1. Hazardous Materials Use

Hazardous materials use at the Site is currently limited to the 1363 Embarcadero property and includes chemicals used in boat repair operations, such as engine oil, antifreeze, and solvent. Chemicals are stored in 55-gallon drums or smaller containers as discussed in the following sections.

Based on a review of documents on file at the Port of Oakland and Oakland Fire Department, additional hazardous materials have historically been used and stored on-site at the 1441 Embarcadero property including solvents, paints, thinners, oils, gasoline, and diesel fuel. Some information regarding quantities of these chemicals formerly used and stored on-site was found in the documents reviewed and is discussed in the following sections.

2. Underground Storage Tanks (USTs)

Ms. Rounds and Mr. Boost were not aware of any current or former USTs or sumps at the Site, and no evidence of such was observed during the site visits. Based on a review of documents on file at the Port, one UST was formerly located at 1275 Embarcadero, one UST was formerly located at 1363 Embarcadero, and two USTs were formerly located at 1441 Embarcadero.

The UST located at 1275 Embarcadero was a steel gasoline UST of unknown capacity that was reportedly removed from the 1275 Embarcadero property in 1970. No information regarding sample collection at the time of tank removal was found during this assessment.

The UST located at 1363 Embarcadero was a single-wall, tar-covered steel 2,000-gallon leaded gasoline UST that was installed in 1979 and removed from the 1363 Embarcadero property in October 1994. Soil and groundwater samples were collected from the UST excavation, as discussed in the soil and groundwater section of this report.

A 400-gallon UST was removed from the northwest portion of the 1441 Embarcadero property in September 1991, and a 500-gallon UST was removed from the northeastern corner of the 1441 Embarcadero property in February 1994. Soil and groundwater samples were collected from both UST excavations, as discussed in the soil and groundwater section of this report.

The 1441 Embarcadero property was identified on the leaking underground storage tank (LUST) database, and the 1441 Embarcadero and 1363 Embarcadero properties were listed on the UST database reviewed by VISTA, which is further discussed in the records review section of this report.

3. Aboveground Storage Tanks

No aboveground storage tanks (ASTs) are currently used on-site. One approximately 100-gallon AST is located on the west side of Building P-113 at 1363 Embarcadero. According to Mr. Boost, the AST is currently empty and unused but was formerly used to store waste oil.

Based on a review of documents on file at the Port of Oakland, historical aerial photographs, and fire insurance maps, several ASTs were formerly located on the 1441 Embarcadero property. Four large ASTs are evident on aerial photographs and fire insurance maps dated 1957 through 1979. The fire insurance maps indicate that the ASTs each had capacities of 2,000 or 12,000 gallons, although the notation regarding the capacities of the ASTs is not clear enough to determine the capacity. Documents on file at the Port of Oakland (Geomatrix 1997a) indicate that the ASTs were used for storage of diesel fuel. An ACHCSA Inspection Report from May 1986 on file at the Oakland Fire Department indicates that four slop oil tanks with capacities of "20,000 each" were located on the 1441 Embarcadero property. No additional information regarding these ASTs was found during this assessment.

4. Drum and Small Containers

At the time of the site visit, approximately eight 55-gallon drums and numerous other smaller containers were stored on-site. The 55-gallon drums were stored outdoors on secondary containment skids on the west side of the main building located at 1363 Embarcadero. Four drums were used to store new engine oil, three were used to store waste oil, and one was used to store used antifreeze. One approximately 40-gallon portable fuel tank was also stored in this area. Minor staining was noted on the concrete ground surface in the vicinity of these drums.

A parts washer used to store approximately 20 gallons of solvent was stored inside the repair shop (Building P-104) at 1363 Embarcadero. Other chemicals stored in one gallon or smaller containers inside the repair shop and retail store at 1363 Embarcadero include antifreeze, transmission fluid, carburetor cleaner, motor oil, gear lubricant, and steering fluid. In addition, portable propane cylinders, which are used to fuel a forklift, are stored in the building. One gallon or smaller containers of paint, methyl ethyl ketone, and acetone were stored in Building P-114 at 1363 Embarcadero. Some old staining was noted on the concrete floors in Buildings P-113 and P-114 on the 1363 Embarcadero property at the time of the site visit.

Approximately ten 5-gallon containers of a biodegradable boat cleaner were stored in a small storage shed located on the east side of the building located at 1311

Embarcadero. No other chemicals were used or stored in the building located at 1311 Embarcadero.

F. Nonhazardous and Hazardous Waste

1. Nonhazardous Waste

Nonhazardous solid waste currently generated at the Site includes office waste generated during operations at the Marine Max facility. Nonhazardous waste generated at the facility is placed in a dumpster located on the west side of Building P-104 located at 1363 Embarcadero. According to Mr. Boost, Waste Management empties the dumpster on a weekly basis.

2. Hazardous Waste

According to Mr. Boost, hazardous wastes currently generated at the Site during Marine Max's operations include used oil, used antifreeze, used solvent, and used batteries. Used oil and used antifreeze are stored in 55-gallon drums located on the west side of Building P-113 at 1363 Embarcadero. According to Mr. Boost, Marine Max generates approximately 660 gallons of used oil and less than 120 gallons of used antifreeze annually. Used oil and used antifreeze are hauled off-site for recycling by AES of Oakland, California three to four times a year. Safety Kleen services the parts washer on a regular basis under a service contract with Marine Max. Used batteries are hauled off-site by Battery Bill of Oakland, California, the company that supplies new batteries to the facility.

G. Air Emissions

There were no obvious air emissions at the Site at the time of the site visit. Ms. Rounds and Mr. Boost were not aware of any current or former sources of air emissions at the Site. No additional information regarding air emissions from former owner operations was found during this assessment.

H. Wastewater

1. Industrial and Sanitary Wastewater

According to Ms. Rounds, wastewater is not currently generated at the 1275 Embarcadero building, although the building is connected to the sanitary sewer. According to Mr. Boost, the Marine Max buildings at 1285, 1311, and 1363 Embarcadero are connected to the sanitary sewer. Wastewater generated during Marine Max's operations includes wash water generated during boat cleaning operations. During the site visit, boats were being cleaned using a biodegradable cleaner and water in an area located east of the 1311 Embarcadero building. The wash water was discharging directly to a storm drain located near the cleaning operation.

Ms. Rounds and Mr. Boost were not aware of any former septic systems located on-site, and no records of septic systems were found during this assessment.

2. Storm Water

Storm water runoff at the Site discharges into storm drains located throughout the paved parking and boat storage areas on the Site. No potential storm water contamination sources were observed at the Site during the site visit.

Based on a review of records on file at the Port of Oakland and at the Oakland Fire Department, wastewater and storm water discharges resulting from activities at the Pacific Dry Dock and Repair Company facility at 1441 Embarcadero were permitted under a National Pollutant Discharge Elimination System (NPDES) permit, which expired in March 1996 (RWQCB 1996). Regional Water Quality Control Board (RWQCB) inspections conducted in 1987, 1988, and 1990 identified evidence of storm runoff washing spent sandblast grit into waters of the State. The RWQCB issued notices of violation related to discharge prohibitions and receiving water limitations in the permits (RWQCB 1996). In March 1996, Crowley submitted a Notice of Intent (NOI) to comply with the Statewide General NPDES Storm Water Permit for Industrial Activities, as required by the RWQCB (Crowley 1996). The RWQCB requested that spent sandblast grit located on the surface in the inter-tidal and sub-tidal zones be removed to assure that storm water would not transport constituents of the spent sandblast materials into the estuary and to address past NPDES permit violations. Crowley submitted a work plan to

address cleanup of grit materials to the RWQCB (Crowley 1996), and the RWQCB incorporated the work plan into a Cleanup and Abatement Order (Order No. 96-111) to ensure completion of the tasks. The RWQCB stated that implementation of the work plan would adequately address past permit violations, and qualify Crowley to withdraw its NOI based on the fact that the facility was no longer in operation and the source for any potential impact from storm water will have been removed once the work plan was implemented. Crowley's grit cleanup operations are discussed in the following section in the 1441 Embarcadero section.

I. On-site Soil and Groundwater Contamination

During the site visit, minor oil staining was noted at the 1363 Embarcadero property. Staining was noted in the repair area of the main building and on the concrete floors in the two smaller buildings. Staining was also noted on the concrete ground surface in the storage area located west of Building P-113 where 55-gallon drums of hazardous materials and hazardous waste were stored. According to Ms. Rounds and Mr. Boost, no major spills or releases of hazardous materials have occurred at the Site. Based on a review of documents on file at the Port of Oakland and Oakland Fire Department, several previous investigations have been conducted at the 1275, 1363, and 1441 Embarcadero properties. In addition, Baseline Environmental Consulting (Baseline) has conducted an investigation of the entire Embarcadero Cove property (1275-1441 Embarcadero). The results of these investigations are discussed below by address.

1275 Embarcadero

A 1970 drawing (BB-3132, included in Appendix B), which was on file at the Oakland Building Department, shows that an underground steel gasoline tank and pump were formerly located on the 1275 Embarcadero property near the northeastern corner of the current on-site restaurant building. Details regarding the installation date, construction, and contents of the UST were not found during this assessment. The UST and pump were reportedly removed from the 1275 Embarcadero property in 1970 (Port of Oakland 1994). No information regarding the removal of this tank or any investigations conducted at the 1275 Embarcadero property during removal of the tank were found during this assessment.

Previous investigations conducted on the 1275 Embarcadero property include soil and groundwater investigations conducted by Baseline Environmental Consulting (Baseline) in May 2001 and Iris-Cambria Environmental (Iris-Cambria) in August 2001 at the request of the Port of Oakland. Baseline's investigation consisted of the collection of soil and grab groundwater samples from source-specific locations and soil samples from random locations (Baseline 2001). Two of the source-specific locations (SB-1 and SB-2) were located on the 1275 Embarcadero property (see Baseline Figure 2 in Appendix C). Due to petroleum odors noted during drilling of these two borings, three additional samples (SB-1A, SB-1B, and SB-2C) were collected in the vicinity of SB-1 and SB-2. Four random samples (RN-A-1, RN-A-2, RN-A-3, and RN-A-4) were also collected from the 1275 Embarcadero property. Total petroleum hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in soil and groundwater samples collected from the 1275 Embarcadero property at the concentrations shown in Baseline Tables 2 and 10 (included in Appendix C), respectively. Baseline recommended that the extent and magnitude of affected soil and groundwater near borings SB-1 and SB-1A be evaluated by installation of groundwater monitoring wells and collection of additional soil samples.

Iris-Cambria's investigation was conducted to characterize soil and groundwater conditions at the 1275 Embarcadero property to support redevelopment activities and determine the necessary steps to obtain a No Further Action letter from the ACHCSA regarding chemicals in the subsurface (Iris-Cambria 2002). Iris-Cambria collected soil and groundwater samples from five boring locations in August 2001 (SB-A, SB-B, SB-D, SB-E, and SB-F; see Iris-Cambria Figure 2 in Appendix D). TPH as gasoline, TPH as diesel, TPH as motor oil, benzene, toluene, and xylenes were detected in soils at the concentrations shown in Iris-Cambria Tables 1 and 2 in Appendix D. TPH as gasoline, TPH as diesel, TPH as motor oil, benzene, ethylbenzene, and xylenes, and three semivolatile organic compounds (SVOCs) were detected in groundwater at the concentrations shown in Iris-Cambria Tables 5 and 6 in Appendix D.

Based on the results of the August 2001 sampling event, Iris-Cambria installed four groundwater monitoring wells (MW-1 through MW-4) on-site at the locations shown on Iris-Cambria Figure 2 in Appendix D. Soil samples were collected from each boring, and groundwater samples were collected from the wells during three sampling events. TPH as gasoline, TPH as diesel, TPH as motor oil, BTEX, naphthalene, and several additional volatile organic compounds (VOCs) were detected in the soil samples at the concentrations shown in Iris-

Cambria Tables 1, 2, and 3 in Appendix D, and TPH as gasoline, TPH as diesel, TPH as motor oil, BTEX, and several SVOCs were detected in groundwater at the concentrations shown in Iris-Cambria Tables 5 and 6 in Appendix D. Iris-Cambria concluded that historical operations in the former UST location are the source of TPH as gasoline and BTEX detected at the 1275 Embarcadero property. Iris-Cambria also concluded that the extent of chemicals in groundwater is generally well defined.

Iris-Cambria's investigation also included a risk-based screening level (RBSL) evaluation to assess whether chemicals detected in soil and groundwater could pose a risk to human health or the environment (Iris-Cambria 2002). Iris-Cambria concluded that the concentrations of chemicals detected in soil and groundwater are below relevant health-based RBSLs for future on-site commercial workers and would not be expected to pose a significant health risk to future commercial workers. Iris-Cambria also concluded that chemicals detected in soil are below health-based RBSLs for construction workers and urban-area terrestrial RBSLs. Chemical concentrations detected in soil and groundwater were above RBSLs developed for the protection of aquatic life, however, the detections occurred greater than 100 feet north of the San Francisco Bay and do not appear to be adversely impacting aquatic receptors. Iris-Cambria proposed installation of one additional groundwater monitoring well in the northeastern corner of the 1275 Embarcadero property and continued groundwater monitoring through June 2002 followed by a request to the ACHCSA and RWQCB for formal case closure.

1285 Embarcadero

A previous Phase I ESA of the Harrison's Marine Center facility conducted by Port of Oakland personnel indicates that a representative of Harrison's Marine Centers stated that hollow areas exist beneath the current concrete floor (Port of Oakland 1993). The Port document indicates that these areas may represent current or former locations of sumps.

Baseline conducted a soil and groundwater investigation of the Embarcadero Cove area in May 2001, which included the collection of soil and groundwater samples from the 1285 Embarcadero property (Baseline 2001). Two source specific boring locations, SB-3 and SB-4, and four random boring locations, RN-B-1, RN-B-2, RN-B-3, and RN-B-4, were sampled (see Baseline Figure 2 in Appendix C). The source specific locations were chosen to investigate the former locations of a cooling tower (SB-3) and possible cavity (i.e., current or former sump identified in the previous Phase I ESA [SB-4]) beneath the floor within the building located on

the 1285 Embarcadero property. The Baseline report indicates that a metal plate was reported to be located under the concrete floor and that a subsurface cavity was identified by a Baseline geologist. The Baseline report suggests that the subsurface structure may have been a resin tank for coating fiberglass rolls used for boat repairs. Several chlorinated solvents were detected in the groundwater sample collected from boring SB-4 at the concentrations shown in Baseline Table 10, which is included in Appendix C. No other chemicals were detected in the groundwater or soil samples from this location. The Baseline report recommends the installation of a groundwater monitoring well in a downgradient location from the 1285 Embarcadero building to assess the quality of groundwater near the possible resin tank. No additional information regarding soil or groundwater investigations conducted at the 1285 Embarcadero property was found during this assessment.

1311 Embarcadero

Baseline conducted a soil and groundwater investigation of the Embarcadero Cove area in May 2001, which included the collection of four soil samples from random locations on the 1311 Embarcadero property (Baseline 2001; see Baseline Figure 2 in Appendix C). Because no areas of concern had been identified during previous assessments of the 1311 Embarcadero property, no source specific locations were sampled by Baseline. The four soil samples (RN-C-1 through RN-C-4) were composited and analyzed for VOCs, SVOCs, TPH, metals, and PCBs, none of which were detected at concentrations that warranted additional investigation, according to Baseline. The detected concentrations are shown in the Baseline tables included in Appendix C.

1363 Embarcadero

A previous Phase I ESA prepared by the Port of Oakland identified a 2,000-gallon inactive UST near Building P-114 on the 1363 Embarcadero property (Port of Oakland 1993), as well as stained concrete located outside the building in an area of hazardous materials storage (i.e., used oil filters, batteries, and fuel containers). The UST was removed from the 1363 Embarcadero property on October 26, 1994 (Alisto Engineering Group 1994; see Alisto Figure 2 in Appendix E). A one-quarter inch hole was noted on the top end of the UST at the time of removal. Groundwater was observed in the tank cavity at approximately four feet bgs. Two soil samples (S-1 and S-2) were collected from the excavation sidewalls, and one groundwater sample (TP1) was collected from the ponded groundwater. Soil samples were not collected from

the base of the excavation due to the presence of groundwater in the excavation. The soil and groundwater samples were analyzed for TPH as gasoline, BTEX, and total lead. Tables 1 and 2 from the Alisto report, which are included in Appendix E, show the results of the soil and groundwater sample analyses. Due to the concentration of total lead detected in sample S-2, 280 milligrams per kilogram (mg/kg), additional soil was excavated and a third sample (S-3) was collected from the sidewall of the additional excavation and analyzed for total lead. Total lead was detected at a concentration of 35 mg/kg in sample S-3. TPH as gasoline, BTEX, and total lead were detected in the groundwater sample at the concentrations shown in Table 2 in Appendix E. Records on file at the Port of Oakland Legal Department indicate that a total of approximately 35 cubic yards of soil were excavated. On November 8, 1994, approximately 2,000 gallons of groundwater were pumped from the tank cavity, and a second groundwater sample (TP2) was collected. Sample TP2 was analyzed for total and dissolved lead, and neither analyte was detected in the groundwater sample. Based on the results of the sample collection and analyses, Alisto Engineering Group recommended no additional subsurface investigation. The ACHCSA issued a No Further Action letter to the Port for the UST on January 20, 1995 (ACHCSA 1995; a copy of this letter is included in Appendix E).

Baseline's investigation of the Embarcadero Cove area in May 2001 included the collection of samples from one source-specific location and two random locations on the 1363 Embarcadero property (Baseline 2001; see Baseline Figure 2 in Appendix C). The source-specific location (SB-5) was chosen to assess the possibility of releases from maintenance buildings on the 1363 Embarcadero property. Soil and groundwater samples collected from this boring location did not contain detectable concentrations of VOCs or SVOCs (see Baseline tables included in Appendix C). Based on these results and the results of analyses of soil samples collected from the random locations (RN-D-1 and RN-D-2), which were analyzed for VOCs, SVOCs, TPH, metals, and PCBs, Baseline did not recommend additional subsurface investigation at the 1363 Embarcadero property.

1441 Embarcadero

Investigations at the 1441 Embarcadero property began in 1989 and have been overseen by the ACHCSA and RWQCB. Numerous investigations were conducted between 1989 and 1997, which included the collection and analysis of soil, groundwater, sediment, and seawater samples. A Site Assessment Report prepared by Versar Inc. (1996) provides a summary of the

investigations conducted at the 1441 Embarcadero property between December 1989 and February 1996. The 1441 Embarcadero property was initially divided into western and eastern sections, which were separated by the two marine drydocks, for investigations conducted between 1989 and 1993. In addition, investigation and remediation of sediment contamination at the property was conducted separately from soil and groundwater under the oversight of the RWQCB while soil and groundwater investigations were overseen by the ACHCSA. Investigations of soil and groundwater and sediment are discussed in the following sections.

It should be noted that the following discussion is based on a review of documents available for review at the Port of Oakland. A request for documents identified based on a review of bibliographies in several key documents was submitted to the Port, which reported that the majority of the documents were available but that several were not. The documents relied upon for the following discussion are included in the references section at the end of this report.

Soil and Groundwater Investigations and Remediation

Initial Investigations: Western Section

Initial investigations conducted in December 1989 and January 1990 on the western section of the 1441 Embarcadero property identified TPH, VOCs, SVOCs, and metals in soil and sediment. ACHCSA reviewed the results of the initial investigations presented in Versar's 1990 Site Assessment report (Versar 1990; not available for review during this assessment) and issued a Notice of Violation (NOV; ACHCSA 1991) to Crowley in April 1991. The NOV indicated that significant concentrations of TPH, SVOCs, and metals were detected in soil, which constituted an unauthorized disposal of hazardous materials. The ACHCSA requested that the extent of contamination be determined and remediated.

As discussed in the UST section of this report, a 400-gallon unleaded gasoline UST was removed from the northwestern portion of the property on September 24, 1991 (ACHCSA 2000c). The location of the former UST is shown on Versar Figure 2 in Appendix F. Two soil samples collected from the UST excavation contained a maximum concentration of 130 parts per million (ppm) TPH as gasoline, as well as detectable concentrations of BTEX, as shown in Versar Table 1 in Appendix F (sample locations shown on Versar Figure 3 in Appendix F). A grab groundwater sample collected from groundwater that ponded in the excavation contained 34,000 milligrams per liter (mg/L) TPH as gasoline, as well as detectable concentrations of

BTEX, as shown in Versar Table 1 in Appendix F (ACHCSA 2000d). The TPH as gasoline concentration indicated that free product was collected in the groundwater sample (ACHCSA 2000d).

Subsequent to removal of the UST, Crowley determined that the entire 1441 Embarcadero property required investigation due to past site activities and surface staining. A site-wide investigation conducted between October 1991 and January 1992 included collection of samples from 48 boring locations, including five boring locations near the former 400-gallon UST. TPH as gasoline, diesel and oil and grease and BTEX were detected in the samples near the UST (Versar 1996).

Versar prepared a Phase II Site Investigation Work Plan for the 1441 Embarcadero property (Versar 1992a) and an addendum to the Phase II Site Investigation Work Plan (Versar 1992b), which documented additional investigation activities, plans for immediate source removal, and installation of five groundwater monitoring wells. The addendum indicates that four areas of identified soil contamination in the western section of the 1441 Embarcadero property (shown on Versar Figure 4 in Appendix F) were to be excavated and treated via on-site thermal treatment. The planned excavation was intended to remove soils exceeding limits for BTEX and TPH approved in a letter from the ACHCSA (ACHCSA 1992; a copy of the ACHCSA letter is included in Appendix F). Versar estimated that approximately 3,500 cubic yards of soil would be excavated, treated on-site, and reused as backfill on-site. No additional information regarding excavation activities on the western portion of the 1441 Embarcadero property was found during this assessment.

As indicated in the Phase II Site Investigation Work Plan and Addendum (Versar 1992a; Versar 1992b), five groundwater monitoring wells (MW-1 through MW-5) were installed on the western section of the 1441 Embarcadero property in June 1993, as shown on Versar Figure 2 in Appendix F (Versar 1996). Well MW-1 was located within ten feet of the former 400-gallon UST location. Two soil samples collected from the boring for MW-1 contained detectable concentrations of TPH as gasoline, diesel, and oil and grease, and BTEX, as shown in Versar Table 4 in Appendix F. Quarterly sampling of the groundwater monitoring wells began in June 1993 and continued through the third quarter of 1995. Two additional rounds of groundwater monitoring well sampling were conducted in the first quarter of 1996 and 1997. Results of the quarterly groundwater monitoring are shown in Gauntlett Table 4 in Appendix F.

Initial Investigations: Eastern Section

Initial investigations conducted on the eastern portion of the 1441 Embarcadero property in December 1989 and January 1990 identified TPH and metals in soil. Additional investigations conducted in August 1992 included collection of soil and groundwater samples, which also indicated that TPH and lead were present in soil in the eastern portion of the property.

As discussed in the UST section of this report, a 500-gallon UST (contents unknown) was removed from the northeastern corner of the property on February 17, 1994 (ACHCSA 2000c). The location of the former UST is shown on Versar Figure 2 in Appendix F. Three soil samples were collected from the 500-gallon UST excavation (locations shown on Versar Figure 7 in Appendix F), and TPH as gasoline and diesel and toluene and xylenes were detected at relatively low concentrations, as shown in Versar Table 5 (see Appendix F). A grab groundwater sample collected from the base of the excavation contained detectable concentrations of TPH as gasoline and diesel and BTEX, as shown in Versar Table 6 (see Appendix F).

The results of the August 1992 investigation on the eastern portion of the 1441 Embarcadero property indicated that two boring locations (borings BH18E and BH32E at five feet bgs) yielded soil samples with lead concentrations that exceeded the total threshold limit concentration (TTLC; 1,000 mg/kg) or soluble threshold limit concentration (STLC; 5.0 mg/kg) for lead, which are used when determining the hazardous waste characterization under California State regulations. In June and July 1995, Versar removed approximately 40 tons of soil from the two locations (Versar 1996; see Versar Figure 2 in Appendix F). Twenty tons of soil were initially removed in June 1995, and five confirmation soil samples were collected from each location. Lead concentrations in the confirmation samples collected from both locations were above the TTLC or STLC, and an additional 20 tons of soil were excavated. The five confirmation samples collected after removal of the additional soil indicated that lead concentrations exceeding the TTLC or STLC were present. Versar proposed the collection of additional soil samples and installation of a groundwater monitoring well to assess the extent of lead impacted soil and to assess groundwater conditions near the removed UST. The additional work was approved by the ACHCSA and eight soil borings and a groundwater monitoring well (MW-6; see Versar Figure 2 in Appendix F) were installed in February 1996 (Versar 1996). The maximum lead concentration detected in soil was 4,100 mg/kg. The analytical results of the groundwater samples collected from MW-6 are presented in Gauntlett Table 4 in Appendix F.

ACHCSA LOP and SLIC Case Closure: 1441 Embarcadero

The ACHCSA oversaw the initial soil and groundwater investigation activities at the 1441 Embarcadero property discussed above under the Local Oversight Program (LOP) and Spills, Leaks, and Investigation Cleanup (SLIC) program. The LOP case related to the investigation of releases from the two former USTs at the 1441 Embarcadero property, and the SLIC case encompassed all other investigation and remediation activities at the 1441 Embarcadero property. The LOP and SLIC cases were both closed by the ACHCSA, as discussed below.

A January 1997 letter from the ACHCSA to Crowley indicates that the ACHCSA reviewed a Site Assessment Report (Versar 1996), which summarized the previous investigations conducted on both the western and eastern sections of the 1441 Embarcadero property (ACHCSA 1997). The ACHCSA requested that Crowley conduct sampling of the on-site groundwater monitoring wells on a revised semi-annual sampling schedule with the next event to occur in the first quarter of 1997 (ACHCSA 1997). The ACHCSA letter states that "after documentation of the 1st quarter 1997 groundwater monitoring and sampling report, this site file will be reviewed to determine whether it warrants closure as a 'Low-Risk Groundwater Case'" under the LOP. The ACHCSA letter also states that once the LOP portion of the case is closed, the 1441 Embarcadero property will be regulated by the ACHCSA under the SLIC program, due to confirmed lead contamination in soil. The ACHCSA letter indicates that "in order to obtain SLIC closure, additional lead-contaminated soils need to be removed in the BH-18 and BH-32 areas." No documentation relating to additional excavation of lead-impacted soil in the vicinity of soil borings BH-18 and BH-32 was found during the Iris Environmental Phase I ESA. However, as discussed below, the SLIC case was closed in June 1999, and the LOP case was closed in January 2000.

A risk assessment for the 1441 Embarcadero property was prepared by Risk-Based Decisions in 1996 and submitted to the ACHCSA (Risk-Based Decisions 1997; the risk assessment was not available for review during the Iris Environmental Phase I ESA). The ACHCSA reviewed the risk assessment and requested that an additional investigation be conducted. The ACHCSA also requested that Crowley conduct an additional groundwater sampling event in the first quarter of 1997. Crowley's consultant, The Gauntlett Group, collected groundwater samples from the six on-site groundwater monitoring wells in March 1997 (Gauntlett 1997). The samples were analyzed for TPH as gasoline, TPH as diesel, BTEX, and

filtered lead. The results of the groundwater sample analyses are shown in Gauntlett Table 4 in Appendix F. This table also includes all data collected from the groundwater monitoring wells since the first groundwater monitoring event in July 1993.

Geomatrix conducted a "preliminary assessment" of the environmental conditions at the 1441 Embarcadero property in April 1997 (Geomatrix 1997a; the report was prepared for Washburn, Briscoe & McCarthy, who were acting on behalf of the Port of Oakland). Geomatrix compiled summary tables and figures showing the results of the soil and groundwater sampling events conducted between December 1989 and February 1996. These tables (Tables 4-6) and figures (Figures 4-15) are included in Appendix F. Based on a review of the soil and groundwater data, Geomatrix recommended that additional soil and groundwater sampling be conducted at the 1441 Embarcadero property. In a letter dated April 10, 1997 submitted to the ACHCSA and RWQCB (Port of Oakland 1997), the Port of Oakland submitted a table and figure prepared by Geomatrix showing recommended additional soil and groundwater sampling and analysis at the 1441 Embarcadero property (see Geomatrix Table 3 in Appendix F of this report).

Based on a review of correspondence between the Port of Oakland, Crowley, and the ACHCSA, the Port of Oakland and Crowley discussed the scope of additional investigations to be conducted at the property, but could not agree on the scope. As a result, the consultants for both the Port (Geomatrix) and Crowley (Risk-Based Decisions) submitted work plans for additional investigation to the ACHCSA in late 1997 (Geomatrix 1997b; Risk-Based Decisions 1997). The ACHCSA approved the work plan submitted by Risk-Based Decisions with several modifications in a letter dated January 21, 1998 (ACHCSA 1998).

Risk-Based Decisions conducted an additional investigation at the property in early 1998 that consisted of the collection of soil samples from 23 locations and grab groundwater samples from four locations on the property (Risk-Based Decisions 1998). The soil and groundwater results were used to update the risk calculations presented in the original risk assessment submitted to the ACHCSA by Risk-Based Decisions in 1997. The results of the updated risk calculations indicated that the risks and hazard indices calculated for a commercial/industrial worker were well within the range of risks calculated in the original risk assessment and below regulatory levels of concern (1.0×10^{-5} for cancer risks and a hazard index of 1.0 for noncancer health effects). Risk-Based Decisions concluded that the "former Pacific Dry Dock Yard I Site constitutes a low risk soil and groundwater site based on the criteria set forth in the Water Board guidance," and Crowley made a request for regulatory closure from the ACHCSA.

The ACHCSA reviewed the updated risk calculations submitted by Risk-Based Decisions and requested that the risks be recalculated to include old and new sampling data and additional exposure pathways. Risk-Based Decisions recalculated the risks as requested and submitted the results to the ACHCSA in a letter report dated January 26, 1999 (Risk-Based Decisions 1999). The excess cancer risk calculated for an industrial worker was 5.15×10^{-6}, and the hazard index was 0.0056. Risk-Based Decisions stated that the excess cancer risk resulted entirely from the detection of PAHs in two soil samples and again requested site closure from the ACHCSA.

A letter from ACHCSA to Crowley dated December 1999 indicates that "the RWQCB has concurred with [the ACHCSA's] recommendation for site closure regarding the two former USTs at [Pacific Dry Dock, Yard I, 1441 Embarcadero]." The ACHCSA requested that Crowley properly abandon the six groundwater monitoring wells located on the 1441 Embarcadero property prior to issuance of formal ACHCSA site closure (ACHCSA 1999b). Five of the six groundwater monitoring wells that were located on the 1441 Embarcadero property were abandoned on December 2, 1999 under permit from the Alameda County Public Works Agency (Field Solutions, Inc. 2000). The sixth well was accidentally destroyed in December 1997 during removal of concrete pads and foundations at the 1441 Embarcadero property.

In 2000, the ACHCSA recommended closure of the LOP case for the 1441 Embarcadero property. The closure recommendation was based on the fact that the USTs had been removed from the 1441 Embarcadero property, the extensive site characterization, the results of long term groundwater monitoring, which indicated "very little impact" from UST releases, and the results of a human health risk assessment (HHRA) prepared for the entire 1441 Embarcadero property, which concluded that there were no unacceptable health risks. The ACHCSA issued closure of the LOP case in a Fuel Leak Site Case Closure letter (ACHCSA 2000a) and a Remedial Action Completion Certification (ACHCSA 2000b) issued on January 7, 2000, which confirmed the completion of the investigation and remedial action for the two former USTs at the 1441 Embarcadero property (copies of these letters are included in Appendix F). The Case Closure Letter also indicated that the following conditions exist at the 1441 Embarcadero property: 72 ppm TPH as diesel remain in soil and 440 ppb TPH as diesel remain in groundwater. The ACHCSA recommended that the 1441 Embarcadero property be included in the City of Oakland's permit tracking system and that corrective action at the 1441 Embarcadero property be reviewed if land use changes.

A Site Summary for 1441 Embarcadero (ACHCSA 2000d), which was prepared by

ACHCSA and attached to the LOP Case Closure letter (ACHCSA 2000a), indicates that the majority of contamination at the 1441 Embarcadero property occurred from surface releases due to the historical ship repair activities. The Site Summary indicates that extensive SLIC (Spills, Leaks, Investigations, and Cleanups) investigations were conducted at the 1441 Embarcadero property and that the SLIC investigation was closed on June 28, 1999. A separate closure letter for the SLIC investigation was not found during this assessment.

Recent Investigations

The most recent investigation at the 1441 Embarcadero property was conducted by Baseline during their investigation of the entire Embarcadero Cove area in May 2001. Baseline collected soil samples from six random locations (RN-D-3, RN-D-4, and RN-E-1 through RN-E-4; see Baseline Figure 2 in Appendix C) on the 1441 Embarcadero property (Baseline 2001). The "D" series samples were composited with two additional random soil samples collected from the 1363 Embarcadero property, and the four "E" series soil samples from the 1441 Embarcadero property were composited. The composited soil samples were analyzed for VOCs, SVOCs, TPH, metals, and PCBs. The soil sampling results are shown in the Baseline tables included in Appendix C of this report. The "E" composite soil sample contained lead at a concentration of 1,500 mg/kg, which is above the TTLC for lead of 1,000 mg/kg, which indicates that the soil would be considered a California hazardous waste if excavated for off-site disposal purposes. Baseline concluded that further characterization of the soils on the 1441 Embarcadero property would be required prior to development if soils were to be excavated from the property.

Sediment Investigations and Remediation

The RWQCB issued a Cleanup and Abatement Order (CAO No. 96-111) to Crowley Marine Services for Pacific Dry Dock Yards I (1441 Embarcadero) and II (not a part of the Site) on July 15, 1996 (RWQCB 1996b). The CAO related to removal of loose grit from the inter-tidal and supra-tidal zones and did not relate to soil and/or groundwater contamination that may be present above the tidal zones on the 1441 Embarcadero property. The CAO indicated that the ACHCSA was supervising Crowley's soil and groundwater investigations at the 1441 Embarcadero property. The CAO also indicated that Crowley vacuumed and swept Yards I and II removing approximately 80 tons of grit in 1995 and submitted a work plan for removal of spent sandblast grit from the inter- and supra-tidal zones at Yards I and II, which was approved

by the RWQCB. In March 1997, Crowley removed approximately 3,500 tons of grit from the 1441 Embarcadero property and disposed the grit at an approved landfill in December 1997. The RWQCB rescinded CAO No. 96-111 in a letter to Crowley dated April 22, 1998, which indicated that Board staff concurred with the scope of work completed and that the work was satisfactory in response to CAO No. 96-111 (RWQCB 1998). The letter also indicated that the ACHCSA was currently supervising soil and groundwater remedial investigations at the 1441 Embarcadero property.

A letter from the Port of Oakland to Crowley and the ACHCSA dated February 17, 1999 indicates that "Pacific Dry Dock Yard I (Area in Front of Storm Drain)" was named as a Candidate Toxic Hot Spot by the RWQCB in its Draft Final Regional Toxic Hot Spot Cleanup Plan for the Bay Protection and Toxic Cleanup Program (BPTCP) dated December 1998. The letter indicates that the Pacific Dry Dock Yard I (Area in Front of Storm Drain) was listed due to risks to aquatic life from copper, lead, mercury, zinc, tributyltin, ppDDE, PCBs, PAHs, chlorpyrifos, chlordane, dieldrin, and mirex. In a letter to the ACHCSA dated April 15, 1999, the RWQCB indicated that, although the area in front of Pacific Dry Dock Yard I was cleaned up to the RWQCB's satisfaction under CAO No. 96-111, two additional investigations conducted by PTI Environmental in 1994 and BPTCP between 1994 and 1997 revealed another problem associated with the storm drain near Pacific Dry Dock Yard I. The additional investigations indicated that the sediment in front of the storm drain was more toxic than the sediment in front of the dry dock. The BPTCP studies indicated that there was no toxicity directly in front of the dry dock facility and that the sediment in front of the storm drain contained high levels of contaminants common in urban runoff. The April 15, 1999 RWQCB letter indicated that the RWQCB views the contamination in front of the storm drain as an ongoing storm water problem for the general urban area and that the RWQCB considers the issue involving Crowley's responsibility under its former NPDES permit resolved.

J. Records Review

A report prepared by VISTA that summarizes the results of a search of federal and state regulatory agency databases was reviewed. The VISTA report is included in Appendix B. The database search was conducted to determine whether the Site or any nearby properties are under investigation for potential environmental issues or have been identified as conducting operations that could potentially impact the environment. The findings of the VISTA search are summarized below.

VISTA conducted its search of environmental databases on October 30, 2001. Because the environmental databases themselves are sometimes not updated by the specific regulatory agencies for periods of up to one year (depending on the database and the state), the database search conducted herein will not necessarily list a facility or site for which an environmental investigation /listing has been initiated subsequent to the last update.

VISTA conducted searches of the following federal databases:

- U.S. Environmental Protection Agency (USEPA) National Priorities List (NPL) for Uncontrolled Hazardous Waste Sites (updated July 2001) – one mile radius;

- USEPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS; updated July 2001) and CERCLIS-No Further Remedial Action Planned (CERCLIS-NFRAP; updated July 2001)- one-half-mile radius;

- Corrective Action Site List (CORRACTS) of Resource Conservation and Recovery Act (RCRA) hazardous waste treatment, storage, and disposal (TSD) facilities subject to corrective action under RCRA (updated June 2000) – one mile radius;

- Resource Conservation and Recovery Act Information System (RCRIS) database of TSD facilities not subject to corrective action and hazardous waste generators (updated June 2000) - one-half-mile radius (TSD) and property and adjoining properties (generators); and

- Emergency Response Notification System (ERNS; updated December 2000) – one-eighth-mile radius.

VISTA also conducted searches of the following State of California databases:

- Annual Work Plan (AWP); identified by VISTA as the State (California) equivalent Priority List (SPL) (updated October 2000) – one mile radius;

- CalSites (identified by VISTA as the State equivalent CERCLIS list, or SCL) database (updated October 2000) - one-half-mile-radius;

- California Solid Waste Inventory System (SWIS; updated June 2001) - one-half-mile radius;

- Leaking Underground Storage Tank (LUST) Information System (updated August 2001) - one-half-mile radius; and

- Underground Storage Tank (UST) Registrations Database (updated January 1994) - property and adjoining properties.

All search radii were selected in accordance with ASTM standards.

The Site address, 1275-1441 Embarcadero, is listed on the LUST, UST, and ERNS databases.

1301 Embarcadero

An ERNS release occurred at 1301 Embarcadero on October 21, 1992. The VISTA report indicates that the material spilled and quantity of spilled material were not reported. The ERNS release was reported to have affected the Oakland Estuary/Coast Guard Island.

1363 Embarcadero

Majesty Yachts (1363 Embarcadero) is listed on the UST database, and the VISTA report indicates that a 2,000-gallon empty UST is in service at the Majesty Yacht facility. As discussed in the UST section of this report, the 2,000-gallon UST was removed from the 1363 Embarcadero property in October 1994.

1441 Embarcadero

Pacific Drydock Repair Company (1441 Embarcadero) is listed on the LUST and UST databases. The VISTA report indicates that the LUST case is closed at the 1441 Embarcadero property and that the "Regional Board (and local agency where appropriate) are in concurrence that no further action is necessary at the site." This information corresponds with the discussion of the LOP case closure in the soil and groundwater contamination section of this report.

The UST listing for the Pacific Drydock Repair Company at 1441 Embarcadero indicates that two 400-gallon USTs used to store leaded and unleaded gasoline are in service at 1441 Embarcadero. As discussed in the UST section of this report, a 400-gallon and a 500-gallon UST were removed from the 1441 Embarcadero property in September 1991 and February 1994, respectively.

No facilities in the vicinity of 1275-1441 Embarcadero were identified on the following databases within the radii specified in the ASTM standard: NPL, CERCLIS, CORRACTS, RCRIS-TSD, RCRIS Generators, ERNS, AWP (SPL), or SWIS databases. The remaining databases are discussed below.

CERCLIS-NFRAP

Four facilities listed on the CERCLIS-NFRAP database were identified by VISTA within a one-half mile radius of 1275-1441 Embarcadero. The US Coast Guard Support Center, Liquid Carbonic Spec Gas Corp (sic), Building H-232 (Port of Oakland), and Ryan Paints are listed as requiring no further remedial action. Because it has been determined that no further remedial action is required at these facilities, it is unlikely that any potential releases from these facilities have impacted 1275-1441 Embarcadero.

CalSites (SCL)

One facility listed on the CalSites database was identified by VISTA. The Liquid Carbonic Spec Gas Corp., located 0.33 miles west of 1275-1441 Embarcadero, has been referred to another agency (REFOA). The VISTA report indicates that oil residue was dumped on the soil and that the soil is discolored. The VISTA report also indicates that a lined acetylene pond at the Liquid Carbonic facility frequently overflowed. Due to the crossgradient location of the Liquid Carbonic facility, it is unlikely that releases from this facility have impacted 1275-1441 Embarcadero.

LUST

Twenty-three LUST facilities are located within one-half mile of 1275-1441 Embarcadero. The VISTA report indicates that the case has been closed at 12 of the LUST facilities and that soil is the only media affected at one facility. The status of these 13 sites indicates that cleanup has been completed, and it is unlikely that releases at these facilities have impacted 1275-1441 Embarcadero. One of the ten remaining facilities, Cooper Tire Shop Former is located in an upgradient location relative to 1275-1441 Embarcadero (assuming groundwater flows southwest toward Brooklyn Basin). Cooper Tire Shop is located 0.13 miles north of 1275-1441 Embarcadero across Highway 880 to the north of 1275-1441 Embarcadero. The VISTA report indicates that a leak was confirmed at the Cooper Tire Shop, but that the affected media is undefined. Given the distance from 1275-1441 Embarcadero and location across Highway 880, it is unlikely that releases from the Cooper Tire Shop have impacted 1275-1441 Embarcadero.

UST

Seven facilities within one-quarter mile of 1275-1441 Embarcadero are listed on the UST database. The presence of USTs at facilities in the vicinity of 1275-1441 Embarcadero is not necessarily an indication of environmental concern.

K. Interviews with Local Government Officials

The City of Oakland Fire Department (OFD), Alameda County Health Care Services Agency (ACHCSA), and Regional Water Quality Control Board (RWQCB) were contacted to inquire whether there are any recognized environmental conditions at the Site. According to

personnel with the ACHCSA, no records are on file for the 1275-1363 Embarcadero Site addresses, and the ACHCSA case is closed for the 1441 Embarcadero property. ACHCSA personnel indicated that the OFD should be contacted for records relating to the 1441 Embarcadero property. Based on a review of records on file at the OFD, recognized environmental conditions have been identified at the Site, as discussed in the previous sections of this report.

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IV. DEVIATIONS FROM THE ASTM STANDARD

There were no deletions or deviations from ASTM Practice E 1527-00 in conducting this Phase I environmental assessment.

APPENDIX A

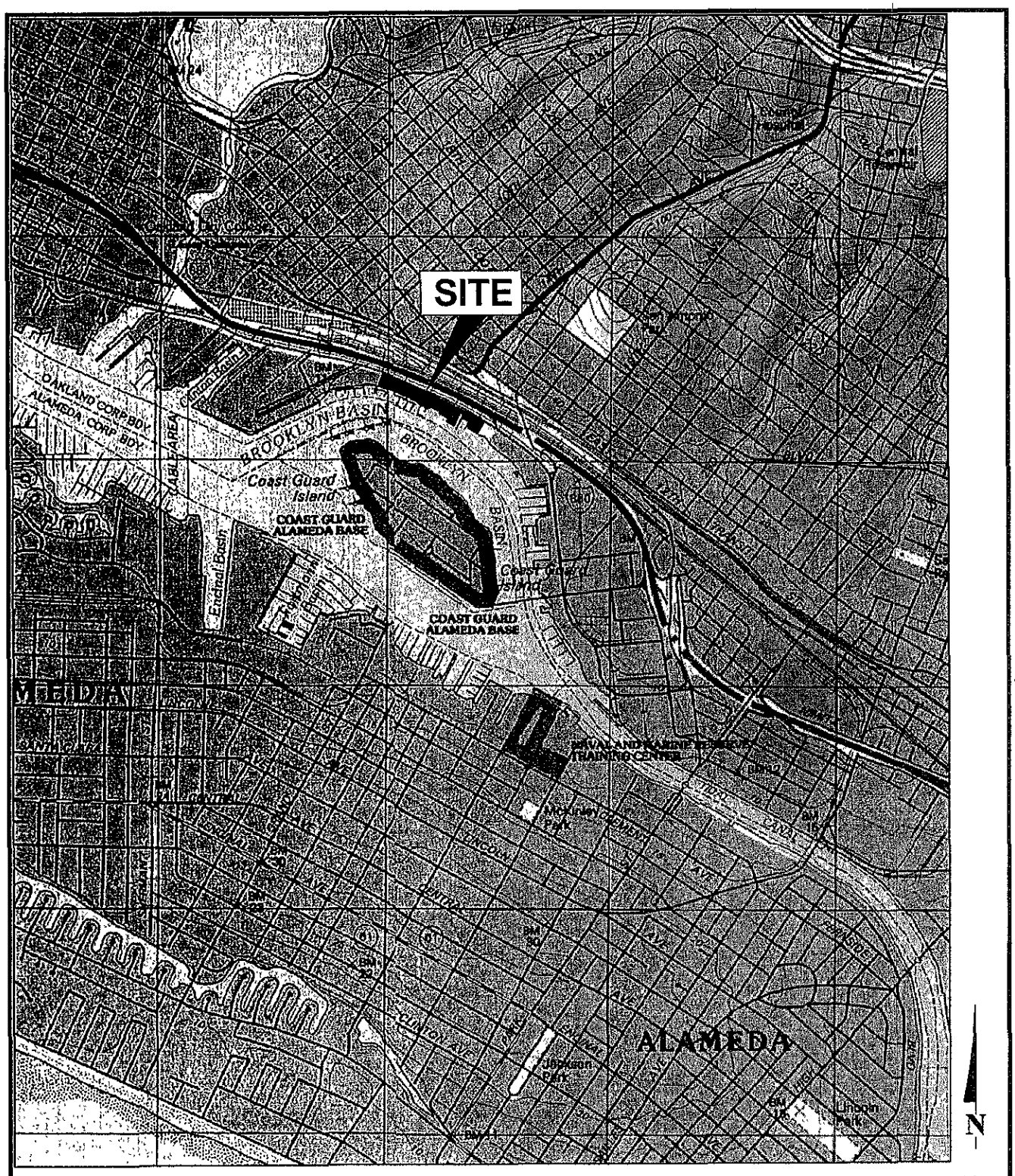
Resumes

Table 1
City Directory Summary
Port of Oakland
1275-1441 Embarcadero
Oakland, California

	Address on Embarcadero			
Date	**1211**	**1285**	**1295**	**1301**
1972	--	Edwards Heat Treating	--	Gang Plank
1976	Barclay Jacks	--	--	Gang Plank
1979	Barclay Jacks	--	--	Gangplank
1985	Barclay's Seafood; Hungry Hunter	BMW Marine Power	Hanson Steven E	Gangplank
1990	Barclay's Seafood; Hungry Hunter	Bayliner Boats; Ski Challengers; Spectrum Boats; Summit Marine Cntrs	Diffenderfer, John; Ellis, William; Haas, Bryan; Haas, Sandy; Hanson, Steven E	Gangplank Coffee Shop; Harrison's Marine Ct; SEA Ray
1997	Barclay's Seafood; Hungry Hunter	Harrison's Marine Ct; Harrison's Searay; Searay	Clark, Michael; Diffenderfer, John	--

Table 1
City Directory Summary
Port of Oakland
1275-1441 Embarcadero
Oakland, California

	Address on Embarcadero				
Date	**1307**	**1311**	**1313**	**1363**	**1441**
1972	Weber & Co	International Marine Sv; Manseau, Jean A; Oakland Marina; Smith Clarence	Catalina Marine; Western Marine Elct	Peterson Dick Co	Crowley Lnch & Tug; Crowley Lnch & Boat Pacific Dry Dck & Rpr
1976	Johnson, Ralph D	April Smll Wrk Boat; Boland, Richard; Brooks Rodney W; Oakland Marina; Oakld Yacht Sales; Whitmer Bill; Zig Zag Marine Serv	Catalina Marine	Steves Marine Inc	Crowley Lnch & Boat; Pacific Dry Dck & Rpr
1979	--	Seahorse Yacht Sale	--	Steves Marine Inc	Crowley Lnch & Boat; Pacific Dry Dck & Rpr
1985	--	Empire Sailing	--	Bell Marine; Land N Sea Craft; Land N Sea Yacht SL; Maddex Marine Mktng; Star Marine Elctrnc; Viking Yachts	Pac Dry Dock & Rpr Co; Potomac; Yacht Potomac
1990	--	--	--	Boat Place, The; Frueh, Fred; Maddex Marine Mktng; Majesty Marine; Stallion Yacht Sls	Pac Dry Dock & Rpr Co; Potomac; Yacht Potomac
1997	--	--	--	--	--

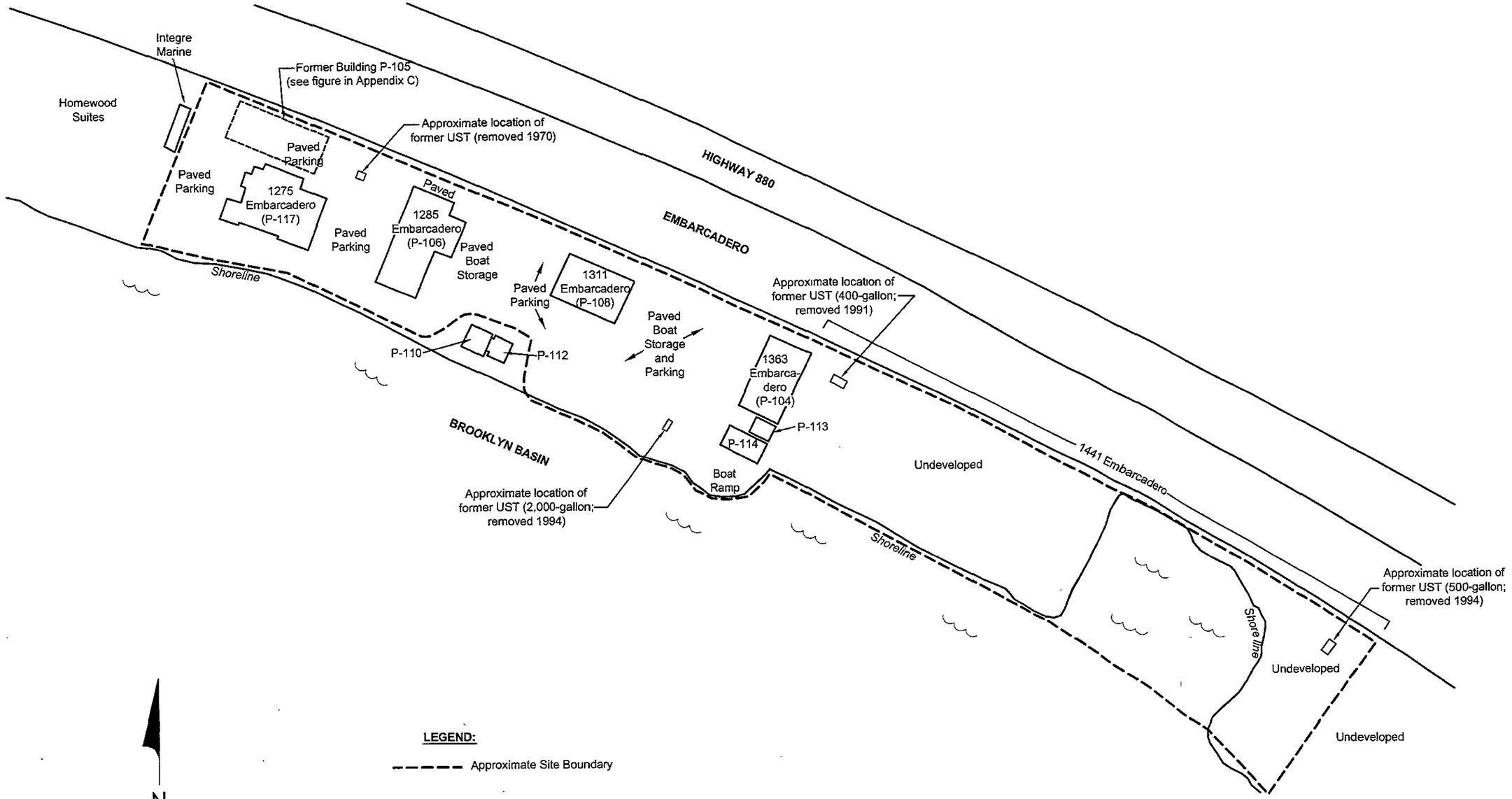


SOURCE MAP: USGS 7.5 Minute OAKLAND Quad, California

01196A-VICMAP.DWG

IRIS ENVIRONMENTAL 1615 Broadway, Suite 1003, Oakland, California 94612	**Site Location Map** 1275 - 1441 Embarcadero Oakland, California	Figure **1**

Drafter: MS	Date: 1/13/02	Contract Number: 01-196A	Approved:	Revised:



IRIS ENVIRONMENTAL
1615 Broadway, Suite 1003, Oakland, California 94612

Site Layout
1275 - 1441 Embarcadero
Oakland, California

Figure 2

Drafter: MAS | Date: 3/6/02 | Contract Number: 01-196A | Approved | Revised:

APPENDIX A

Resumes

PHILLIP L. FITZWATER

EDUCATION

1981 M.S., Hydrology (Ground Water), University of Arizona

1978 B.S. with Distinction, Watershed Science (Surface Water Hydrology), Colorado State University

REGISTRATIONS AND CERTIFICATIONS

Registered Environmental Assessor, State of California, 1990
Registered Environmental Assessor Level II, State of California, 2000
Registered Professional Geologist, State of Arizona, 1986
Registered Professional Geologist, State of Wyoming, 1993
Registered Professional Hydrogeologist, American Institute of Hydrology, 1988
Certified Professional Geological Scientist, American Institute of Professional Geologists, 1985
40-Hour Hazardous Waste Operations/Emergency Response
8-Hour Annual Refresher

EXPERIENCE

Mr. Fitzwater is a Principal of Iris Environmental with an extensive experience base including the evaluation of risk posed by environmental conditions, hydrogeologic characterization, site remediation, Brownfield redevelopment, environmental compliance, and representation before regulatory agencies. He has over 20 years of experience in technical consulting related to the redevelopment of industrial properties and inner city parcels, risk assessment, environmental regulatory compliance for high tech, mining and heavy industries, due diligence auditing, cost allocation, hydrogeology, and hazardous waste management. Mr. Fitzwater has solved environmental problems throughout the western U.S. and Gulf Coast regions. He has managed projects from the very small to the very large, involving management of individuals and large multidisciplinary groups working from numerous offices throughout the U.S. and has provided expert witness testimony in deposition and at trial on an array of environmental issues. The following projects are representative of Mr. Fitzwater's experience:

- Mr. Fitzwater provides technical leadership on the Mission Bay Project that is in the heart of San Francisco, California and one of the largest Brownfields project in the western United States. The project covers an area of some 303 acres that have been in commercial and industrial use since the mid 1800's. The project surrounds China Basin Channel and when completed will transform the area into a dynamic new part of San Francisco. New uses are to include a new University of California campus; an entertainment complex; high-density housing; public open space; a hotel; retail and commercial uses; a hotel; a police and fire station; office; biotech; and research and development facilities. Mr. Fitzwater is providing an extensive array of

environmental services to support the redevelopment activity including field investigations, risk assessments, modeling studies, and representation before community and regulatory authorities.

- Mr. Fitzwater provided technical leadership and regulatory agency interface for the redevelopment of the former Pacific Refinery in Hercules, California, which has undergone dismantling, and redevelopment into a 220-acre residential community in the northern portion of the San Francisco Bay.

- Senior technical strategist for restoration of a former manufacturing facility closure (Brownfields) project, including sump cleaning and removals, above and below ground tank removals, decommissioning of a water production well, and excavation, disposal and replacement of contaminated soils. Negotiated soil cleanup levels with regulatory agency. A Preliminary Endangerment Assessment (PEA) Report was submitted to the California Department of Toxic Substances Control (DTSC) concluding that detected levels of Total Petroleum Hydrocarbon as Thinner do not pose significant threats to residents or workers. DTSC concurred with the conclusions, and no further action at the site was required.

- Senior technical strategist for the preparation of a Preliminary Endangerment Assessment (PEA) Report for a former manufacturing facility. The focus of the report was that calculated health-based acceptable soil concentrations indicated that the detected levels of zinc (up to 29,000 milligrams per kilogram) do not pose significant threats to residents or workers. The California Department of Toxic Substances Control concurred with the conclusion, and no remedial action at the site was required.

- Served as lead technical consultant for multiple site characterizations and remediations around the San Francisco Bay Area. Chemicals of concern have included organic solvents, fuels, heavy metals, pesticides, and asbestos in air, soil, and water. Provided consultation on strategies and implementations to both in-house staff and outside legal counsel, and defended findings before state and federal regulatory agencies. Handled cost allocation negotiations.

- Conducted numerous environmental due diligence audits associated with worldwide mergers and acquisitions, including acquisitions as large as $500 million and industries such as semiconductor, metal plating, computer and electronic instrument manufacturing, and various other high technology endeavors. Provided expert counsel on expected remedial costs and appropriate environmental set-asides for purchase agreements.

- Provided senior technical and project management on a multiple source federal Superfund site in Palo Alto, California. The project included characterization and remediation of chlorinated solvents, heavy metals, and petroleum hydrocarbons released from source areas distributed over a regional area. Used cone penetrometer testing, soil sampling, well installation, and aquifer testing to define the hydrostratigraphic system. Engineering feasibility studies that were completed to support selection and construction of the remedial systems involved the assessment and pilot testing of the latest technologies for remediating a wide range of chemical constituents. Prepared and presented technical strategies and findings before local, state, and federal agencies.

- Directed site assessments and regulatory compliance audits associated with due diligence disclosure for the initial public offering (IPO) of a printed board manufacturer with facilities in Santa Clara and Costa Mesa. The project included subsurface investigations for heavy metal, chlorinated solvent, and petroleum hydrocarbon contamination, and the audits addressed chemical handling practices, compliance with permitting regulations, health and safety, and disposal practices. Prepared remediation action plans for gasoline contamination resulting from an underground storage tank.

- Lead technical consultant for New United Motors Manufacturing, Inc. in Fremont, California. Multiple projects were undertaken to assess possible hydrocarbon release areas and to engineer solutions for hydrocarbons detected in soils and ground water beneath the facility. Environmental considerations also were addressed for multiple plant expansions. Air emission inventory database selected for compliance monitoring. Represented the automobile manufacturer before state and local regulatory agencies.

- Environmental advisor for waste disposal practices and assessor for potential environmental contamination at an auto dealership in downtown San Francisco. Consultation was given on waste disposal options and the risks involved in each method.

- Managed an RI/FS for three major semiconductor manufacturers in California's Silicon Valley, which involved industrial solvent contamination in ground water extending over thousands of feet. The investigation identified potential source areas and additional responsible parties, who were issued special notice letters for cost sharing. Was responsible for scopes of work, project management, cost control, and presentations to clients, the public, and regulatory agencies.

- Served as project manager for a computer hardware manufacturer in California. Directed site characterization, remedial alternative evaluation, engineering design, construction management, and operational oversight of remedial measures. More than 300 test borings, 150 monitoring wells, and 15 extraction wells and associated piping were installed, and over 1,000 soil and ground water samples for chemical analysis were collected. Managed the design, construction, and operation of an advanced treatment system for removing volatile organic compounds from the ground water.

- Managed the design and implementation of multiple vapor extraction systems in clay and sandy soils, which effectively removed chlorinated and non-chlorinated hydrocarbons in areas otherwise inaccessible for remediation. Sufficient data were developed to support a CERCLA feasibility analysis of vapor extraction for dozens of source areas within a large Superfund site south of San Francisco. Used the data to prepare a vacuum process model and to conduct sensitivity analysis on the relative importance of individual physical and chemical processes occurring during vapor extraction.

- Provided technical support to the defense team representing a prior operator of a 130-acre asbestos mine in central California (an NPL Superfund site). Directed the development of a

reclamation plan for the mine; critiqued and formally commented on EPA's investigations and findings; and served as liaison between regulatory agency personnel and other responsible parties.

- Provided strategic counsel to three semiconductor manufacturers in Sunnyvale, California, with merged ground water contaminant plumes. The site contained multiple NPL listed areas and multiple source areas. Directed the streamlining of the RI/FS process, assisted in agency negotiations, and made multiple presentations before client and agency forums.

- Directed a hydrogeological characterization of a fractured-rock system. Conducted geological mapping, test-pit logging, rock coring, monitoring well installation and sampling, and field-testing of hydraulic conductivity using packers and transducers, at the Edward Hines Lumber Company NPL site, in Mena, Arkansas.

- Managed a permitting study for developing a hazardous waste disposal site within a Gulf Coast salt dome. Study included detailed geologic mapping utilizing oil and gas geophysical and production data. Prepared a three-dimensional flow model to assess developmental impacts of injection and water supply well fields. Prepared closed-solution model to simulate contaminant transport.

- Served as project manager for a regional aquifer study at the Madison Limestone Formation, Powder River Basin, in Wyoming. Evaluated data from surface seismic profiles and borehole geophysical logs.

- Managed a ground water contamination assessment at a brine production facility. Traced the water contamination resulting from mercury spills with an exploration program that included monitoring well installation, test borings, borehole geophysical logging, and water quality sampling.

- Traced regional ground water flow using geochemical and isotopic techniques.

- Served as senior technical reviewer of hydrogeological portions of RCRA Part B applications on behalf of Environmental Protection Agency. Evaluated technical completeness, applicability of study procedures, and validity of conclusions.

- Directed the design and cost development of dewatering and depressurization well fields for a 125,000-acre Gulf Coast lignite mine. Evaluated 600 geophysical logs to characterize hydrogeology of the mine.

- Directed the regional hydrogeological site characterization at a lignite mine in Texas. Study included characterization of geology, aquifer properties, water quality, and regional flow patterns. Hydrogeological characterizations were accomplished using data from surface and borehole geophysics, soil test borings, and monitoring wells.

- Designed a computerized data base system for entry of approximately 1,000 geophysical logs taken for hydrogeological characterization of a lignite mine near Jewett, Texas. Used hydrogeological data to locate areas requiring ground water control to enhance slope stability. Geotechnical borings were drilled, and water quality wells were installed and tested.

- Served as project manager for the hydrogeological characterization and hazardous assessment associated with release of toluene at an industrial facility in eastern San Francisco Bay Area. Prepared safety plans, work plans, and feasibility studies. Utilized mobile gas chromatograph laboratory to facilitate flexible and effective field investigations of horizontal and vertical extent of plume. Provided technical representation before regulatory community.

- Managed and participated in a multidisciplinary study of a site to be developed as a hazardous waste storage and disposal facility. Exploration included test borings, monitoring well installation, water quality sampling and analysis, and *in situ* permeability testing. Data were used to prepare site permit applications.

- Conducted geological and ground water assessments at two hazardous waste facilities in Texas City, Texas. Developed closure plans for hazardous waste pits at both sites. Prepared solute transport models for prediction of contaminant-recovery rates.

- Managed hydrogeological exploration of proposed site for a new municipal water well in Tomball, Texas. Exploration included interpretation of oil and gas geophysical logs and determination of strata to be screened by well.

- Directed monitoring well system design and installation at a hazardous waste landfill, Point Comfort, Texas.

PHILLIP L. FITZWATER

PROFESSIONAL MEMBERSHIPS

Member, American Institute of Hydrology.
Member, American Institute of Professional Geologists.
Member, American Society for Testing and Materials:
Committee on Environmental Due Diligence Assessments.
Member, Association of Ground Water Scientists and Engineers.
Member, National Water Well Association.
Member, Phi Kappa Phi, Honorary Scholastic Society.
Member, Xi Sigma Pi, Honorary Society of Natural Resources.
Member, Gamma Sigma Delta, Honor Society of Agriculture.
Former Treasurer and Board of Director, Oakland East Bay Symphony.

PUBLICATIONS AND PRESENTATIONS

Fitzwater, P.L. 2001. State of the Art - Environmental Due Diligence, Real Property Law Section, 20th Annual Retreat, State Bar of California. Published in *Thriving and Surviving in the New Real Estate Economy.*

Scofield, R. and Fitzwater, P.L. 1993. When Is Enough Enough? An update on Setting and Achieving Cleanup Goals for Soil and Ground Water. In *Shepard's California Environmental Law & Regulation Reporter.*

Fitzwater, P.L., and C.L. Brassow. 1984. Assessment and closure of a hazardous waste disposal site in the Gulf Coast. In *Proceedings of the Symposium on Hazardous Wastes and Environmental Emergencies*. Silver Spring, Md.: Hazardous Materials Control Research Institute.

Fitzwater, P.L., C.L. Brassow, and C.W. Fetter. 1983. Assessment of ground-water contamination and remedial action for a hazardous waste facility in the Gulf Coast. In *Proceedings of the Third National Symposium on Aquifer Restoration and Ground-Water Monitoring*. Ohio: NWWA.

Fitzwater, P.L. 1981. The Black Hills Monocline: Barrier or conduit for Madison Limestone ground water. In *Proceedings of the 10th Annual Rocky Mountain Groundwater Conference, Laramie, WY.*

Fitzwater, P.L. 1981. Age and movement of ground water in the Madison Limestone, northeastern Wyoming. Master's thesis, University of Arizona.

May 2001

KAREN T. SMITH, R.E.A.

EDUCATION

1992 B.A., Environmental Sciences, University of Virginia

REGISTRATIONS

Registered Environmental Assessor, State of California, 2000

AHERA-Certified Building Inspector and Management Planner for Asbestos

EXPERIENCE

Ms. Smith is a Manager at Iris Environmental with over nine years experience in environmental consulting with emphasis on due diligence and human health risk assessment. She has conducted numerous Phase I Environmental Site Assessments and compliance audits for properties throughout the U.S. and Canada. Ms. Smith has calculated cancer risks and noncancer hazard indices as well as risk-based cleanup levels for multipathway exposure to chemicals in various media at Superfund sites and other facilities. Ms. Smith has substantial experience in database development and management and in conducting research in support of litigation. The following projects are representative of Ms. Smith's experience:

- Conducted Phase I Environmental Site Assessments and compliance audits for numerous commercial and industrial facilities located in the U.S. and Canada. Properties audited include: manufacturers of epoxy counter tops, plywood, plastic bottles, plastic cutlery, candles, paint brushes, windows, woven wire products, automobile parts, packaging machinery, and lightning surge protection equipment; marine repair facilities and terminals; a fuel supply company; medical facilities; hotels; a commercial/industrial facility with over 30 tenants; a commercial garbage collection company; self-storage facilities; shopping centers; a billboard company; and several undeveloped lots and vacant buildings.

- Managed the updating of Phase I Environmental Site Assessments for 17 sites located around the country. Coordinated with the client, the target company, and staff from four offices; conducted assessments at six of the sites; and wrote and reviewed updated reports.

- Prepared storm water pollution prevention and monitoring plans for multiple facilities of a plastics manufacturer located in Northern and Southern California.

- Assisted in the preparation of a RCRA Part B Permit Application for a hazardous waste transfer facility in Southern California.

- Calculated cancer risks and noncancer hazard indices for populations exposed to chemicals present in the soil, sediment, surface water, and ground water at a Superfund site. Conducted a multipathway evaluation of risks including ingestion of fish and produce.

- Calculated site-specific cleanup levels protective of human health and the environment for six former underground storage tank sites. Evaluated multipathway exposure to petroleum products in soil, ground water, and surface water. Site-specific cleanup levels were used to develop risk management plans that were submitted to the San Francisco Regional Water Quality Control Board.

- Calculated site-specific cleanup levels protective of human health for a 245-acre site. Calculated cleanup levels using site-specific data and assumptions for exposure to petroleum products, VOCs, and SVOCs via inhalation.

- Calculated risk-based cleanup levels for VOCs in ground water and inorganics in soil at a former printed circuit board and electronics assembly facility.

- Conducted a Preliminary Endangerment Assessment including report production following DTSC guidelines for a former manufacturing facility. Exposure to a petroleum-based thinner via inhalation of soil vapors and direct contact with soil was evaluated.

- Conducted screening health risk assessments to determine risks associated with a natural petroleum seep near a residential development, and to determine risks associated with petroleum hydrocarbon-containing soil at a former warehouse/distribution center.

- Calculated acceptable soil cleanup levels for residential exposure to metals at a former circuit manufacturing site.

- Researched national and international standards and guidelines for methylmercury by conducting a literature search and contacting various national and international agencies.

- Researched state and federal regulatory requirements for chemical ingredients of several furniture protection/polish products. Summarized the status of chemicals under state and federal regulations including RCRA, EPCRA, the Clean Water Act, TSCA, and Proposition 65.

- Developed databases of existing soil and groundwater data for several sites, including one contaminated with petroleum products and one contaminated with a variety of organic and inorganic chemicals. Compared existing data to health-based soil clean-up levels and selected constituents of concern for further evaluations.

- Provided litigation support for a major utility company in southern California suing its insurance company for costs incurred for investigations, evaluations, and remedial activities at former manufactured gas sites. Reviewed historical documents to identify the materials used and activities that occurred at the sites that may have resulted in site contamination, evaluated current site investigation results, and determined the fate and transport of the site contaminants in surface and subsurface soils and groundwater.

- Assisted a new owner of 25 gasoline stations with the transfer of ownership of underground storage tank, air, and other permits and hazardous materials business plans. Contacted

county agencies and air quality management districts to determine requirements for ownership transfers and prepared documents for submittal to the county agencies.

- Investigated several incidents at a local municipal water supplier in which 1,2-dichloroethane was detected in finished water at concentrations above state and federal MCLs. Conducted literature searches, visited water treatment plants, interviewed plant managers and sample collectors. Prepared a report on investigation findings.

- Researched history and status of underground storage tanks at a 260-acre site. Reviewed documents and conducted searches at regulatory agencies. Prepared report documenting research and findings.

- Researched the historical uses, investigations, and remedial activities conducted at eighteen individual parcels located on a Superfund site. Histories were used in fact sheets prepared to provide information to employees of the current site tenant.

- Conducted an analysis of the potential hazards posed by No. 2 Fuel Oil contained in underground storage tanks.

July 2001

APPENDIX B

VISTA Report of Site and Vicinity
and
Historical Research Documentation

SITE ASSESSMENT REPORT

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: 01-196-A Port of Oakland - Embarcadero Cove 1275-1441 Embarcadero Oakland, CA 94606 Latitude/Longitude: (37.787521, 122.247846)	Karen Smith Iris Environmental 1615 Broadway Ste 1003 Oakland, CA 94612

Site Distribution Summary Agency / Database - Type of Records			within 1/8 mile	1/8 to 1/4 mile	1/4 to 1/2 mile	1/2 to 1 mile
A) Databases searched to 1 mile:						
US EPA	NPL	National Priority List	0	0	0	0
US EPA	CORRACTS	RCRA Corrective Actions (w/o TSD)	0	0	0	0
US EPA	TSD CORRACTS	RCRA Corrective Actions and associated TSD	0	0	0	0
STATE	SPL	State equivalent priority list	0	0	0	0
B) Databases searched to 1/2 mile:						
STATE	SCL	State equivalent CERCLIS list	0	0	1	-
US EPA	CERCLIS / NFRAP	Sites currently or formerly under review by US EPA	0	0	4	-
US EPA	TSD	RCRA permitted treatment, storage, disposal facilities	0	0	0	-
STATE	LUST	Leaking Underground Storage Tanks	1	7	19	-
STATE	SWLF	Permitted as solid waste landfills, incinerators, or transfer stations	0	0	0	-
C) Databases searched to 1/4 mile:						
STATE	UST	Registered underground storage tanks	3	6	-	-
STATE	AST	Registered aboveground storage tanks	0	0	-	-

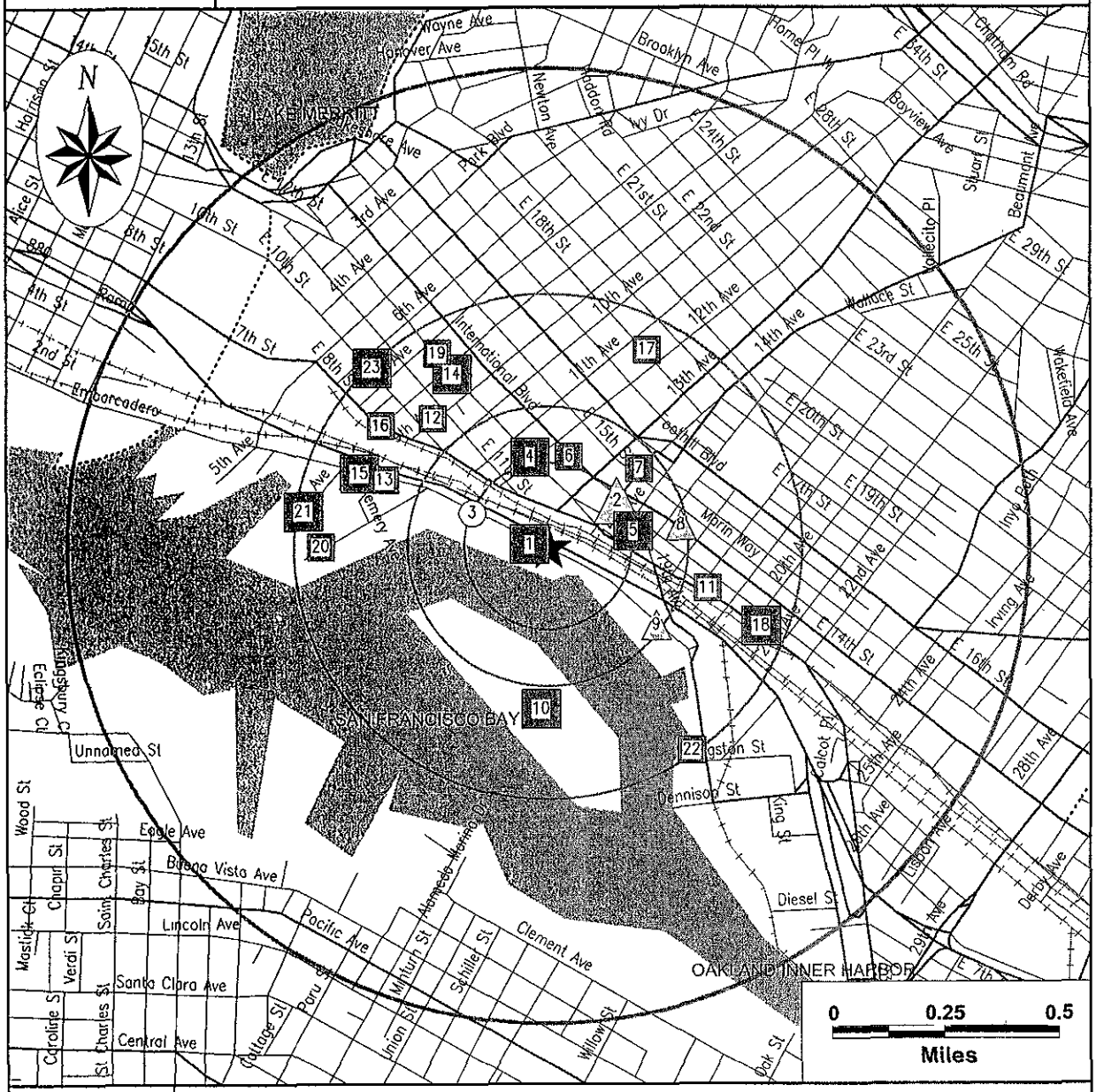
Site Distribution Summary Agency / Database - Type of Records			within 1/8 mile	1/8 to 1/4 mile	1/4 to 1/2 mile	1/2 to 1 mile
D) Databases searched to 1/8 mile:						
US EPA	ERNS	Emergency Response Notification System of spills	1	-	-	-
US EPA	LG GEN	RCRA registered large generators of hazardous waste	0	-	-	-
US EPA	SM GEN	RCRA registered small generators of hazardous waste	0	-	-	-
STATE	SPILLS	State spills list	0	-	-	-
US EPA	NOTIFIERS	RCRIS Notifiers	0	-	-	-

This report meets the ASTM standard E-1527 for standard federal and state government database research in a Phase I environmental site assessment. A (-) indicates a distance not searched because it exceeds these ASTM search parameters.

NOTES

SITE ASSESSMENT REPORT

Map of Sites within 1 Mile



Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 mi.	1/2 mi.	1/4 mi.	1/8 mi.
	Single Sites	◆	■	▲	○
	Multiple Sites	◆	■	▲	○
		NPL, SPL, CORRACTS (TSD)	CERCLIS\ NFRAP, TSD, LUST, SWLF, SCL	UST	ERNS, GENERATORS

Highways and Major Roads
Roads
Railroads
Rivers or Water Bodies
Utilities

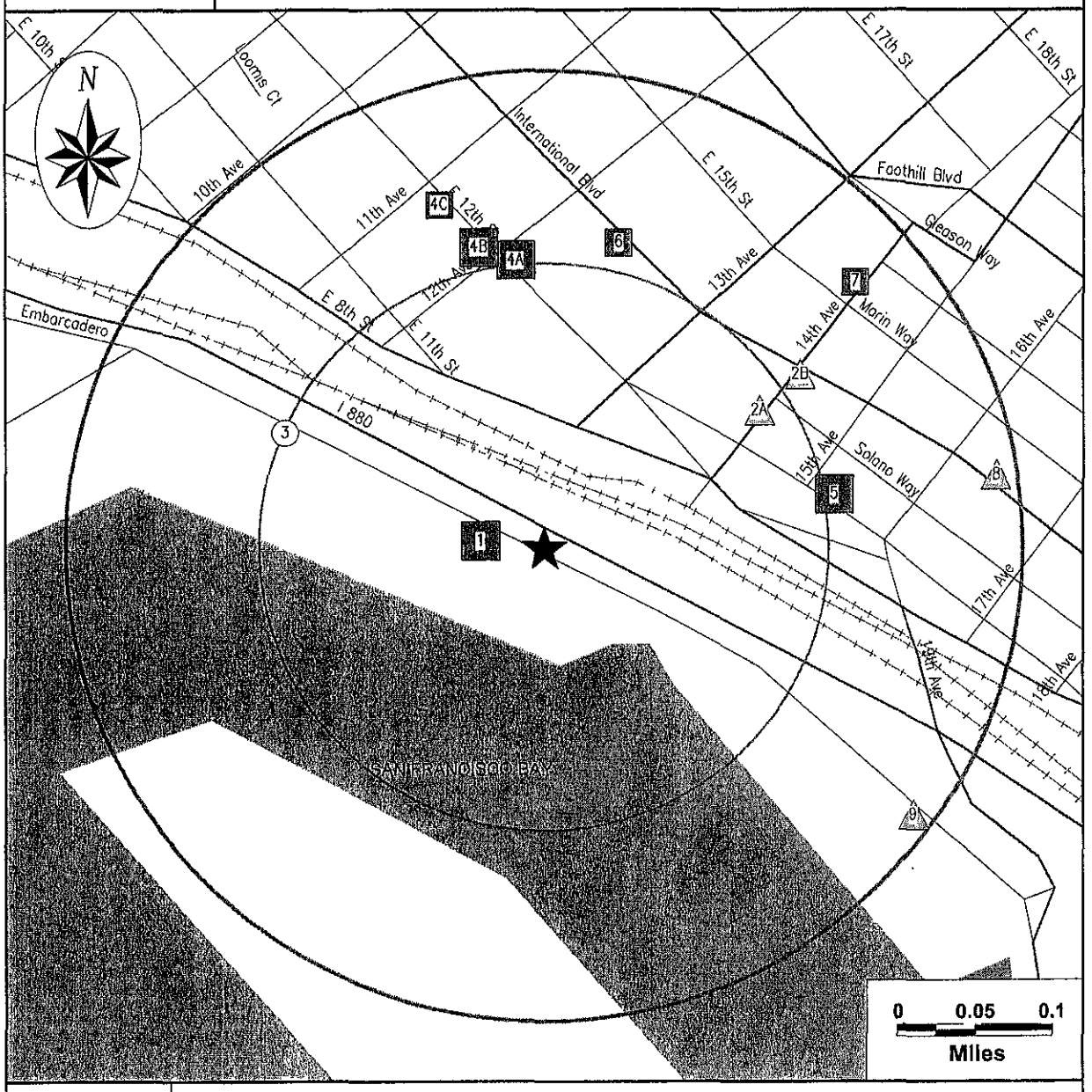
For More Information Call VISTA Information Solutions, Inc. at **1 - 800 - 767 - 0403**

Report ID: **345001901**

Date of Report: **October 30, 2001**

SITE ASSESSMENT REPORT

Map of Sites within 1/4 Mile

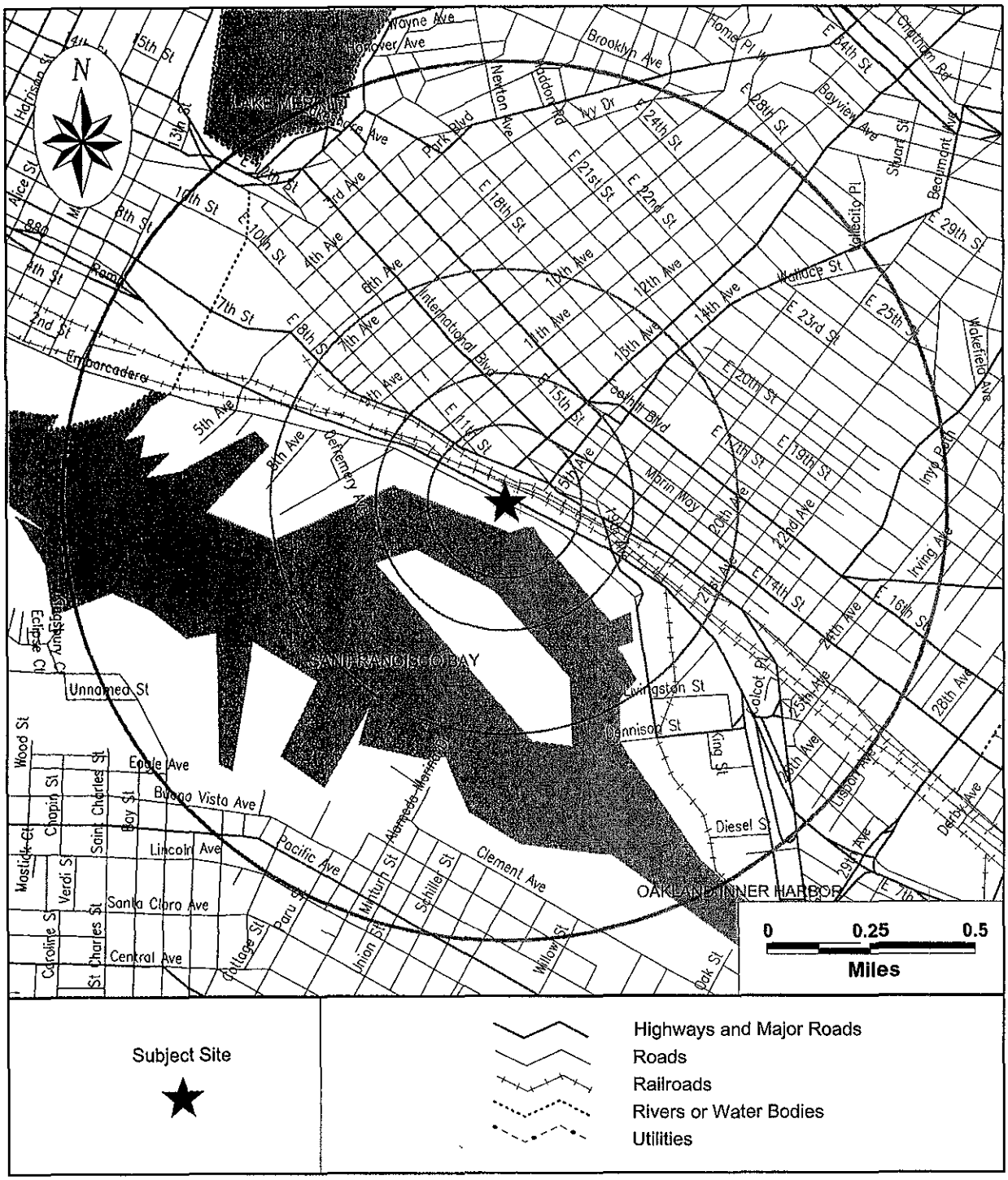


Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 mi.	1/2 mi.	1/4 mi.	1/8 mi.
	Single Sites	◆	■	△	○
	Multiple Sites	◆	■	△	○
		NPL, SPL, CORRACTS (TSD)	CERCLIS\ NFRAP, TSD, LUST, SWLF, SCL	UST	ERNS, GENERATORS

Highways and Major Roads
Roads
Railroads
Rivers or Water Bodies
Utilities

SITE ASSESSMENT REPORT

Street Map



SITE ASSESSMENT REPORT

SITE INVENTORY

MAP ID	PROPERTY AND THE ADJACENT AREA (within 1/8 mile)	VISTA ID / DISTANCE / DIRECTION	A				B					C		D				
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	UST	AST	ERNS	LG GEN	SM GEN	SPILLS	NOTIFIERS
1	MAJESTY YACHTS 1363 EMBARCADERO OAKLAND, CA 94606	4025920 0.00 MI NA										X						
1	PACIFIC DRYDOCK REPAIR CO , 1441 EMBARCADERO OAKLAND, CA 94607	316304 0.00 MI NA								X		X						
2A	NABISCO BRANDS 1267 014TH OAKLAND, CA 94623	4015700 0.11 MI NE										X						
3	1301 EMBARCADERO OAKLAND, CA 94606	8576848 0.12 MI W												X				

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)	VISTA ID / DISTANCE / DIRECTION	A				B					C		D				
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	UST	AST	ERNS	LG GEN	SM GEN	SPILLS	NOTIFIERS
2B	DAVLIN PAINT CO, INC 1401 E 014TH OAKLAND, CA 94606	4015702 0.14 MI NE										X						
4A	UNKNOWN 1200 E 12TH OAKLAND, CA 94606	4016395 0.13 MI N										X						
4A	COOPER TIRE SHOP FORMER 1200 12TH ST E OAKLAND, CA 94606	12639252 0.13 MI N								X								
4B	GIBSON PAINT COMPANY 1199 E. 12TH ST. OAKLAND, CA 94606	171090 0.14 MI N								X		X						
4B	GIBSON PAINT COMPANY SCREEN PROCESS 1199 12TH ST E OAKLAND, CA 94606	67009542 0.14 MI N								X								
4C	GLASS ON THE MOVE 1111 E. 12TH ST OAKLAND, CA 94606	3781150 0.17 MI N								X								

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)	VISTA ID DISTANCE DIRECTION	A				B					C		D				
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	UST	AST	ERNS	LG GEN	SM GEN	SPILLS	NOTIFIERS
5	ROSE EXTERMINATOR CO 1512 E 12TH OAKLAND, CA 94606	4016400 0.13 MI E										X						
5	MODERN AUTO BODY 1518 E. 12TH ST OAKLAND, CA 94606	7810351 0.13 MI E								X								
6	OAKLAND FIRE STATION #4 1235 E. 14TH ST OAKLAND, CA 94606	6320314 0.14 MI N								X								
7	VACANT LOT 1515 14TH AVE OAKLAND, CA 94606	11498353 0.21 MI NE								X								
8	GOODWILL CAB CO INC 1632 E 14TH OAKLAND, CA 94606	4016477 0.24 MI E										X						
9	BLDG. P-323 1755 EMBARCADERO OAKLAND, CA 94606	1252820 0.24 MI SE										X						

MAP ID	SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)	VISTA ID DISTANCE DIRECTION	A				B					C		D				
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	UST	AST	ERNS	LG GEN	SM GEN	SPILLS	NOTIFIERS
10	USDOT CG TWELFTH DIST FLP CG GOVNMT ISL ALAMEDA, CA 94501	5241062 0.29 MI S						X							•			
10	USCG SUPPORT CENTER COAST GUARD ISLAND ALAMEDA, CA 0	65401070 0.30 MI S								X								
10	USCG SUPPORT CENTER UNKNOWN COAST GUARD ISLAND ALAMEDA, CA 94501	64542672 0.31 MI S								X								
11	CHRISTIAN INTERNATIONAL CHURCH 1832 12TH ST E OAKLAND, CA 94606	11498345 0.30 MI E								X								
12	SALLE'S PAINT BODY 1049 9TH AVENUE OAKLAND, CA 94606	365929 0.32 MI NW								X						•		
13	LIQUID CARBONIC SPEC GAS CORP 901 EMBARCADERO ST OAKLAND, CA 94606	245989 0.33 MI W					X	X		X		•				•		

MAP ID	SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)	VISTA ID DISTANCE DIRECTION	A				B					C		D				
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	UST	AST	ERNS	LG GEN	SM GEN	SPILLS	NOTIFIERS
14	J R USED AUTO PARTS 823 E. 12TH ST OAKLAND, CA 94606	3065439 0.37 MI NW								X								
14	1X CAKEBREAD GARAGE 802 E. 12TH ST OAKLAND, CA 94606	6604086 0.38 MI NW								X								
15	BUILDING H-232, PORT OF OAKLAND 845 EMBARCADERO OAKLAND, CA 94606	3078297 0.39 MI W						X										
15	CANNEY BLDG H 211 845 EMBARCADERO OAKLAND, CA 94606	12639645 0.39 MI W								X								
16	SOUTHERN PACIFIC RAILYARD UNKNOWN 8TH ST E 8TH AVE OAKLAND, CA 94607	64570494 0.40 MI NW								X								
17	NATIONAL IMPORT 1148 18TH OAKLAND, CA 94607	4222285 0.43 MI NE								X								
18	WILLIAM WURZBACH COMPANY 1200 20TH AVE OAKLAND, CA 94606	8568296 0.43 MI E								X								
18	1X WONG'S ARCO STATION 2032 E. 12TH ST OAKLAND, CA 94606	1247329 0.45 MI E								X								
19	HARLEY DAVIDSON MOTORCYCLE 744 12TH ST E OAKLAND, CA 94606	11498342 0.43 MI NW								X								
20	MARINE TERMINALS CORP 101 10TH ST OAKLAND, CA 94606	12639238 0.44 MI W								X								
21	KEEP ON TRUCKING CO INC 370 8TH AVE OAKLAND, CA 94606	1252818 0.46 MI W								X			•			•		
21	CARD LOCK FORMER BUILDING H 204 79 8TH AVE OAKLAND, CA 94606	12639377 0.50 MI W								X								
21	CARD LOCK FORMER BUILDING H 204 79 8TH AVE OAKLAND, CA 94606	67010372 0.50 MI W								X								
22	VUKASIM PROPERTY 54 EMBRACADERO OAKLAND, CA 94606	5354419 0.49 MI SE								X								
23	RYAN PAINTS 630 E 10TH ST OAKLAND, CA 94606	363990 0.50 MI NW						X								•		

MAP ID	SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)	VISTA ID / DISTANCE / DIRECTION	A				B					C		D				
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	UST	AST	ERNS	LG GEN	SM GEN	SPILLS	NOTIFIERS
23	1X AMERICAN INK PRODUCTS INC 630 E. 10TH ST OAKLAND, CA 94606	930163 0.50 MI NW								X								

MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)	VISTA ID / DISTANCE / DIRECTION	A				B					C		D				
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	UST	AST	ERNS	LG GEN	SM GEN	SPILLS	NOTIFIERS
No Records Found																		

UNMAPPED SITES VISTA ID	A				B					C		D				
	NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	UST	AST	ERNS	LG GEN	SM GEN	SPILLS	NOTIFIERS
No Records Found																

SITE ASSESSMENT REPORT

DETAILS

PROPERTY AND THE ADJACENT AREA (within 1/8 mile)

VISTA Address*:	MAJESTY YACHTS 1363 EMBARCADERO OAKLAND, CA 94606	VISTA ID#:	4025920	Map ID
		Distance/Direction:	0.00 MI / NA	1
		Plotted as:	Point	
STATE UST - State Underground Storage Tank / SRC# 45		EPA/Agency ID:	N/A	

Agency Address:	*MAJESTY YACHTS 1363 EMBARCADERO OAKLAND, CA 94607*
Facility Name:	*MAJESTY YACHTS*
Facility Address:	*1363 EMBARCADERO OAKLAND, CA 94607*
Facility County:	*01000*
Total Underground Tanks:	*1*
Total Aboveground Tanks:	*NOT REPORTED*
Total Tanks Removed:	*0*
Tank ID #:	*T001U*
Tank Contents:	*EMPTY*
Tank Age:	*0*
Tank Capacity:	*2000 GALLONS*
Tank Status:	*ACTIVE/IN SERVICE*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*UNKNOWN*

VISTA Address*:	PACIFIC DRYDOCK REPAIR CO 1441 EMBARCADERO OAKLAND, CA 94607	VISTA ID#:	316304	Map ID
		Distance/Direction:	0.00 MI / NA	1
		Plotted as:	Point	
STATE UST - State Underground Storage Tank / SRC# 45		EPA/Agency ID:	N/A	

Agency Address:	*PACIFIC DRY DOCK AND REPAIR CO 1441 EMBARCADERO OAKLAND, CA 94606*
Facility Name:	*PACIFIC DRY DOCK AND REPAIRCO*
Facility Address:	*1441 EMBARCADERO OAKLAND, CA 94606*
Facility County:	*01000R. G.*
Total Underground Tanks:	*2*
Total Aboveground Tanks:	*NOT REPORTED*
Total Tanks Removed:	*0*
Tank ID #:	*T001U*

Tank Contents:	*UNLEADED GAS*
Tank Age:	*0*
Tank Capacity:	*400 GALLONS*
Tank Status:	*ACTIVE/IN SERVICE*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*UNKNOWN*
Tank ID #:	*T001U*
Tank Contents:	*LEADED GAS*
Tank Age:	*0*
Tank Capacity:	*400 GALLONS*
Tank Status:	*ACTIVE/IN SERVICE*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*UNKNOWN*

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-1119
Agency Address:	*PACIFIC DRY DOCK REPAIR COMPANY 1441 EMBARCADERO OAKLAND, CA 0*	
Case ID #:	*01-1119*	
Site Name:	*PACIFIC DRY DOCK REPAIR COMPANY*	
Site Address:	*1441 EMBARCADERO OAKLAND, CA*	
Site County:	*ALAMEDA*	
Date Entered:	*11/20/91*	
Maximum Groundwater:	*34000*	
Substance Leaked:	*NOT REPORTED*	
Media Affected:	*NOT REPORTED*	
Discovery Date:	*NOT REPORTED*	
Site Status:	*CASE CLOSED: REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.*	
Fields Not Reported by the Source Agency for this Site:	*Maximum Soil(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*	

VISTA Address*:	**NABISCO BRANDS 1267 014TH OAKLAND, CA 94623**	VISTA ID#:	4015700
		Distance/Direction:	0.11 MI / NE
		Plotted as:	Point

Map ID **2A**

STATE UST - State Underground Storage Tank / SRC# 45	EPA/Agency ID:	N/A
Agency Address:	*SAME AS ABOVE*	
Facility Name:	*NABISCO BRANDS*	
Facility Address:	*1267 014TH OAKLAND, CA 94623*	
Facility County:	*01000NEIL*	
Total Underground Tanks:	*2*	
Total Aboveground Tanks:	*NOT REPORTED*	
Total Tanks Removed:	*2*	

Tank ID #:	*T001U*
Tank Contents:	*UNKNOWN*
Tank Age:	*0*
Tank Capacity:	*7937 GALLONS*
Tank Status:	*CLOSED REMOVED*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*UNKNOWN*
Tank ID #:	*T001U*
Tank Contents:	*UNKNOWN*
Tank Age:	*0*
Tank Capacity:	*7937 GALLONS*
Tank Status:	*CLOSED REMOVED*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*UNKNOWN*

VISTA Address*:	**1301 EMBARCADERO OAKLAND, CA 94606**	VISTA ID#:	8576848	Map ID **3**
		Distance/Direction:	0.12 MI / W	
		Plotted as:	Point	
ERNS - Emergency Response Notification System / SRC# 8		EPA/Agency ID:	N/A	

Agency Address:	*1301 EMBARCADERO OAKLAND, CA 0*
Vista ID:	*8576848*
Agency ID:	*141423*
Facility Address:	*1301 EMBARCADERO*
Facility City:	*OAKLAND*
Facility State:	*CA*
Facility County:	*ALAMEDA*
Spill Date:	*10/21/1992*
Spill Time:	*09:30 AM*
Case Number:	*141423*
Spill Location:	*1301 EMBARCADERO*
Source Agency:	*N*
Discharger Name:	*UNKNOWN,*
Material Spilled 1:	*UNKNOWN MATERIAL*
Material Units 1:	*UNK*
Is Air Release:	*NO*
Is Land Release:	*NO*
Is Water Release:	*NO*
Is Ground Release:	*NO*
Is Facility Release:	*NO*
Is Other Release:	*NO*
Waterway Affected:	*OAKLAND ESTUARY>COAST GUARDISLAND*

PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

Fields Not Reported by the Source Agency for this Site:	*Epa ID(1), Facility Name(1), Facility Zip(1), Discharger Org(1), Discharger Address(1), Discharger Phone(1), Discharger County(1), Discharger City(1), Discharger State(1), Discharger Zip(1), Material Quantity 1(1)*

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)

VISTA Address*:	**DAVLIN PAINT CO, INC** **1401 E 014TH** **OAKLAND, CA 94606**	VISTA ID#:	4015702	Map ID **2B**
		Distance/Direction:	0.14 MI / NE	
		Plotted as:	Point	
STATE UST - State Underground Storage Tank / SRC# 45		EPA/Agency ID:	N/A	

Agency Address:	*SAME AS ABOVE*
Facility Name:	*DAVLIN PAINT CO, INC*
Facility Address:	*1401 E 014TH* *OAKLAND, CA 94606*
Facility County:	*01000DAVID*
Total Underground Tanks:	*2*
Total Aboveground Tanks:	*NOT REPORTED*
Total Tanks Removed:	*2*
Tank ID #:	*T001U*
Tank Contents:	*UNKNOWN*
Tank Age:	*0*
Tank Capacity:	*2000 GALLONS*
Tank Status:	*CLOSED REMOVED*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*BARE STEEL*
Tank ID #:	*T001U*
Tank Contents:	*UNKNOWN*
Tank Age:	*0*
Tank Capacity:	*4000 GALLONS*
Tank Status:	*CLOSED REMOVED*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*BARE STEEL*

VISTA Address*:	**UNKNOWN** **1200 E 12TH** **OAKLAND, CA 94606**	VISTA ID#:	4016395	Map ID **4A**
		Distance/Direction:	0.13 MI / N	
		Plotted as:	Point	
STATE UST - State Underground Storage Tank / SRC# 45		EPA/Agency ID:	N/A	

Agency Address:	*SAME AS ABOVE*
Facility Name:	*UNKNOWN*
Facility Address:	*1200 E 12TH* *OAKLAND, CA 94606*

Facility County:	01000
Total Underground Tanks:	2
Total Aboveground Tanks:	NOT REPORTED
Total Tanks Removed:	0
Tank ID #:	T001U
Tank Contents:	UNLEADED GAS
Tank Age:	0
Tank Capacity:	1 GALLONS
Tank Status:	ACTIVE/IN SERVICE
Leak Monitor:	MONITOR PRESENT
Piping Type:	UNKNOWN
Tank Material:	UNKNOWN
Tank ID #:	T001U
Tank Contents:	UNLEADED GAS
Tank Age:	0
Tank Capacity:	500 GALLONS
Tank Status:	ACTIVE/IN SERVICE
Leak Monitor:	MONITOR PRESENT
Piping Type:	UNKNOWN
Tank Material:	UNKNOWN

VISTA Address*:	**COOPER TIRE SHOP FORMER** **1200 12TH ST E** **OAKLAND, CA 94606**	VISTA ID#: Distance/Direction: Plotted as:	12639252 0.13 MI / N Point
STATE LUST - State Leaking Underground Storage Tank / SRC# 164		EPA/Agency ID:	N/A

Map ID **4A**

Agency Address:	SAME AS ABOVE
Site Name:	COOPER TIRE SHOP FORMER
Site Location:	1200 12TH ST E OAKLAND CA 94606-
Site County:	ALAMEDA
Water Quality Control Board Region:	02
Case ID #:	01-2458
Local Case ID #:	3284
Media Affected:	UNDEFINED
Lead Agency:	LOCAL AGENCY LEAD
Remediation Status:	LEAK BEING CONFIRMED
Substance Leaked:	GASOLINE
	CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Enforcement Type:	NONE TAKEN
Funding By:	FEDERAL FUNDS
How was Leak Discovered:	TANK CLOSURE
How was Leak Stopped:	CLOSE TANK

MTBE Tested:	SITE NOT TESTED FOR MTBE
Program Type:	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak:	UNKNOWN
Source of Leak:	UNKNOWN
Longitude:	37.7900661
Latitude:	-122.2489181
Summary:	NEW CASE PER ACHD - 10/7/98.
Date Leak was Confirmed:	8/14/96
Date Leak was Discovered:	8/14/96
Reported Date:	8/14/96
Date Leak was Stopped:	8/14/96
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Abatement Method(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Source of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date Case was Closed(1), Date of Enforcement Action(1), MTBE Date(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853 | Agency ID: 01-2458

Agency Address:	COOPER TIRE SHOP FORMER 1200 12TH ST E OAKLAND, CA 0
Case ID #:	01-2458
Site Name:	COOPER TIRE SHOP FORMER
Site Address:	1200 12TH ST E OAKLAND, CA
Site County:	ALAMEDA
Date Entered:	3/2/99
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED
Discovery Date:	NOT REPORTED
Site Status:	LEAK CONFIRMED; A LAB REPORTRECEIVED CONFIRMING A LEAK/SPILL FROM A TANK.
Maximum MTBE	0
Current MTBE	ND
Fields Not Reported by the Source Agency for this Site:	Maximum Soil(1), Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1)

VISTA Address*:	**GIBSON PAINT COMPANY** **1199 E. 12TH ST.** **OAKLAND, CA 94606**	VISTA ID#:	171090
		Distance/Direction:	0.14 MI / N
		Plotted as:	Point

Map ID **4B**

STATE UST - State Underground Storage Tank / SRC# 45 | EPA/Agency ID: N/A

Agency Address:	GIBSON PAINT CO. 1199 E 12TH OAKLAND, CA 94606
Facility Name:	GIBSON PAINT CO.
Facility Address:	1199 E 12TH OAKLAND, CA 94606
Facility County:	01000

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

Total Underground Tanks:	2
Total Aboveground Tanks:	NOT REPORTED
Total Tanks Removed:	2
Tank ID #:	600017U
Tank Contents:	UNKNOWN
Tank Age:	0
Tank Capacity:	3000 GALLONS
Tank Status:	CLOSED REMOVED
Leak Monitor:	MONITOR PRESENT
Piping Type:	UNKNOWN
Tank Material:	BARE STEEL
Tank ID #:	600017U
Tank Contents:	UNKNOWN
Tank Age:	0
Tank Capacity:	6000 GALLONS
Tank Status:	CLOSED REMOVED
Leak Monitor:	MONITOR PRESENT
Piping Type:	UNKNOWN
Tank Material:	BARE STEEL

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-0699
Agency Address:	GIBSON PAINT COMPANY SCREEN PROCESS 1199 12TH ST E OAKLAND, CA 0	
Case ID #:	01-0699	
Site Name:	GIBSON PAINT COMPANY SCREENPROCESS	
Site Address:	1199 12TH ST E OAKLAND, CA	
Site County:	ALAMEDA	
Date Entered:	12/14/90	
Maximum Soil	330	
Maximum Groundwater	55000	
Current Benzene	ND	
Substance Leaked:	NOT REPORTED	
Media Affected:	NOT REPORTED	
Discovery Date:	NOT REPORTED	
Site Status:	CASE CLOSED- REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.	
Fields Not Reported by the Source Agency for this Site:	MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)	

VISTA Address*:	GIBSON PAINT COMPANY SCREEN PROCESS 1199 12TH ST E OAKLAND, CA 94606	VISTA ID#:	67009542
		Distance/Direction:	0.14 MI / N
		Plotted as:	Point

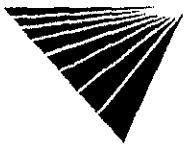
Map ID **4B**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE	
Site Name:	GIBSON PAINT COMPANY SCREENPROCESS	

Site Location:	*1199 12TH ST E* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-0699*
Local Case ID #:	*235*
Media Affected:	*OTHER GROUNDWATER*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status:	*CASE CLOSED*
Substance Leaked:	*GASOLINE*
Abatement Method	*EDET* *CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Enforcement Type:	*NONE TAKEN*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped:	*CLOSE TANK*
MTBE Tested	*SITE NOT TESTED FOR MTBE*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*STRUCTRE FAILURE*
Source of Leak	*TANK*
Longitude:	*37.7898531*
Latitude:	*-122.2490191*
Summary:	*2/10 WIR, VARIOUS CLHC IN MW3. REQ TO CC--1/8/98, . . CASE CLOSED 3/10/98 BY ACHD*
Date Preliminary Site Assessment Workpla	*11/21/90*
Date Preliminary Site Assessment Began	*8/28/91*
Date Case was Closed	*3/10/98*
Date Leak was Discovered:	*6/28/90*
Reported Date:	*6/28/90*
Date Leak was Stopped:	*6/28/90*
Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Media Affected(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Leak was Confirmed(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date of Enforcement Action(1), MTBE Date(1)*

VISTA Address*:	**GLASS ON THE MOVE** **1111 E. 12TH ST** **OAKLAND, CA 94606**	VISTA ID#:	3781150	Map ID **4C**
		Distance/Direction:	0.17 MI / N	
		Plotted as:	Point	
STATE LUST - State Leaking Underground Storage Tank / SRC# 164		EPA/Agency ID:	N/A	

Agency Address:	*GLASS ON THE MOVE* *1111 12TH ST E* *OAKLAND, CA 94606*
Site Name:	*GLASS ON THE MOVE*



SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

Site Location:	*1111 12TH ST E* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-0703*
Local Case ID #:	*3677*
Media Affected	*SOIL ONLY*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*CASE CLOSED*
Substance Leaked:	*GASOLINE*
Abatement Method	*ET* *CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Enforcement Type:	*13267 LETTERS FOR ENFORCEMENT*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped:	*CLOSE TANK*
MTBE Tested	*SITE NOT TESTED FOR MTBE*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*STRUCTRE FAILURE*
Source of Leak	*TANK*
Longitude:	*37.7904571*
Latitude:	*-122.2496751*
Summary:	*ARCHIVED 6/6/96 CONTROL NO 120-080 SRC 0904730*
Date Preliminary Site Assessment Workpla	*11/25/91*
Date Case was Closed	*3/27/95*
Date Leak was Discovered:	*7/15/90*
Date of Enforcement Action	*2/24/92*
Reported Date:	*9/16/91*
Date Leak was Stopped:	*7/15/90*
Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Leak was Confirmed(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), MTBE Date(1)*

STATE LUST - State Leaking Underground Storage Tank / SRC# 853 | Agency ID: | 01-0703

Agency Address:	*GLASS ON THE MOVE* *1111 12TH ST E* *OAKLAND, CA 0*
Case ID #:	*01-0703*
Site Name:	*GLASS ON THE MOVE*
Site Address:	*1111 12TH ST E* *OAKLAND, CA*
Site County:	*ALAMEDA*

Date Entered:	*1/29/92*
Maximum Soil	*1300*
Substance Leaked:	*NOT REPORTED*
Media Affected:	*NOT REPORTED*
Discovery Date:	*NOT REPORTED*
Site Status:	*CASE CLOSED; REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.*
Fields Not Reported by the Source Agency for this Site:	*Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*

VISTA Address*:		VISTA ID#:	Map ID
ROSE EXTERMINATOR CO **1512 E 12TH** **OAKLAND, CA 94606**		4016400	**5**
		Distance/Direction: 0.13 MI / E	
		Plotted as: Point	
STATE UST - State Underground Storage Tank / SRC# 45		EPA/Agency ID: N/A	

Agency Address:	*ROSE EXTERMINATOR CO* *1512 E 12TH* *OAKLAND, CA 94601*
Facility Name:	*ROSE EXTERMINATOR CO*
Facility Address:	*1512 E 12TH* *OAKLAND, CA 94601*
Facility County:	*01000*
Total Underground Tanks:	*1*
Total Aboveground Tanks:	*NOT REPORTED*
Total Tanks Removed:	*0*
Tank ID #:	*T001U*
Tank Contents:	*UNLEADED GAS*
Tank Age:	*0*
Tank Capacity:	*1000 GALLONS*
Tank Status:	*ACTIVE/IN SERVICE*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*UNKNOWN*

VISTA Address*:		VISTA ID#:	Map ID
MODERN AUTO BODY **1518 E. 12TH ST** **OAKLAND, CA 94606**		7810351	**5**
		Distance/Direction: 0.13 MI / E	
		Plotted as: Point	
STATE LUST - State Leaking Underground Storage Tank / SRC# 164		EPA/Agency ID: N/A	

Agency Address:	*MODERN AUTO BODY* *1518 12TH ST E* *OAKLAND, CA 94606*
Site Name:	*MODERN AUTO BODY*
Site Location:	*1518 12TH ST E* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-0506*
Local Case ID #:	*3140*

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

Media Affected	*SOIL ONLY*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*CASE CLOSED*
Substance Leaked:	*GASOLINE*
Abatement Method	*ED*
	CODE LOOKUP· CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Enforcement Type:	*NONE TAKEN*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped:	*CLOSE TANK*
MTBE Tested	*SITE NOT TESTED FOR MTBE*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*STRUCTRE FAILURE*
Source of Leak	*TANK*
Longitude:	*37.7880091*
Latitude:	*-122.245665*
Summary:	*REQ CASE CLOSURE 10/8/96...CASE CLOSED 01/15/97...*
Date Preliminary Site Assessment Workpla	*10/19/90*
Date Case was Closed	*1/15/97*
Date Leak was Discovered:	*9/27/90*
Reported Date:	*8/1/89*
Date Leak was Stopped:	*9/27/90*
Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Leak was Confirmed(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date of Enforcement Action(1), MTBE Date(1)*

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-0506

Agency Address:	*MODERN AUTO BODY* *1518 12TH ST E* *OAKLAND, CA 0*
Case ID #:	*01-0506*
Site Name:	*MODERN AUTO BODY*
Site Address:	*1518 12TH ST E* *OAKLAND, CA*
Site County:	*ALAMEDA*
Date Entered:	*12/10/90*
Maximum Soil	*646*
Substance Leaked:	*NOT REPORTED*
Media Affected:	*NOT REPORTED*
Discovery Date:	*NOT REPORTED*
Site Status:	*CASE CLOSED: REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.*

Fields Not Reported by the Source Agency for this Site:	Maximum Groundwater(1), Currrent Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)

VISTA Address*:	OAKLAND FIRE STATION #4 1235 E. 14TH ST OAKLAND, CA 94606	VISTA ID#:	6320314
		Distance/Direction:	0.14 MI / N
		Plotted as:	Point

Map ID **6**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164 — EPA/Agency ID: N/A

Agency Address:	*OAKLAND FIRE STATION #4 1235 14TH ST E OAKLAND, CA 94606*
Site Name:	*OAKLAND FIRE STATION #4*
Site Location:	*1235 14TH ST E OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-1838*
Local Case ID #:	*4606*
Media Affected	*SOIL ONLY*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*CASE CLOSED*
Substance Leaked:	*DIESEL*
Abatement Method	*ED CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Enforcement Type:	*13267 LETTERS FOR ENFORCEMENT*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped:	*CLOSE TANK*
MTBE Tested	*NOT REQUIRED TO BE TESTED*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*UNKNOWN*
Source of Leak	*TANK*
Longitude:	*37.7902491*
Latitude:	*-122.2477871*
Summary:	*LOP UPDATE--10/21/93; MAXSOIL TPH-D, CASE CLOSURE SUMMARY IN FILE. REQ CASE CLOSURE9/28/95 CASE CLOSED 02/04/97*
Date Leak was Confirmed	*1/25/96*
Date Case was Closed	*2/5/97*
Date Leak was Discovered:	*9/10/93*
Date of Enforcement Action	*9/10/93*
Reported Date:	*9/10/93*
Date Leak was Stopped:	*9/10/93*

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), MTBE Date(1)*

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-1838

Agency Address:	*OAKLAND FIRE STATION #4* *1235 14TH ST E* *OAKLAND, CA 0*
Case ID #:	*01-1838*
Site Name:	*OAKLAND FIRE STATION #4*
Site Address:	*1235 14TH ST E* *OAKLAND, CA*
Site County:	*ALAMEDA*
Date Entered:	*11/9/93*
Maximum Soil	*1600*
Substance Leaked:	*NOT REPORTED*
Media Affected:	*NOT REPORTED*
Discovery Date:	*NOT REPORTED*
Site Status:	*CASE CLOSED: REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.*
Fields Not Reported by the Source Agency for this Site:	*Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*

VISTA Address*:	**VACANT LOT** **1515 14TH AVE** **OAKLAND, CA 94606**	VISTA ID#:	11498353
		Distance/Direction:	0.21 MI / NE
		Plotted as:	Point

Map ID **7**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A

Agency Address:	*SAME AS ABOVE*
Site Name:	*VACANT LOT*
Site Location:	*1515 14TH AVE* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-1843*
Local Case ID #:	*2251*
Media Affected	*UNDEFINED*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*CASE CLOSED*
Substance Leaked:	*WASTE OIL*
Abatement Method	*EDET* *CODE LOOKUP. CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Enforcement Type:	*13267 LETTERS FOR ENFORCEMENT*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*SUBSURFACE MONITORING*

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

How was Leak Stopped:	CLOSE TANK
MTBE Tested	NOT REQUIRED TO BE TESTED
Program Type	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak	UNKNOWN
Source of Leak	TANK
Longitude:	37.7900381
Latitude:	-122.245418
Summary:	ARCHIVED 6/6/96 CONTROL NO 120-092 SRC 0904742
Date Leak was Confirmed	7/22/93
Date Case was Closed	7/6/94
Date Leak was Discovered:	2/20/93
Date of Enforcement Action	7/22/93
Reported Date:	7/19/93
Date Leak was Stopped:	2/20/93
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), MTBE Date(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853 | Agency ID: 01-1843

Agency Address:	VACANT LOT 1515 14TH AVE OAKLAND, CA 0
Case ID #:	01-1843
Site Name:	VACANT LOT
Site Address:	1515 14TH AVE OAKLAND, CA
Site County:	ALAMEDA
Date Entered:	8/11/93
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED
Discovery Date:	NOT REPORTED
Site Status:	CASE CLOSED; REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.
Fields Not Reported by the Source Agency for this Site:	Maximum Soil(1), Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)

VISTA Address*:	**GOODWILL CAB CO INC** **1632 E 14TH** **OAKLAND, CA 94606**	VISTA ID#: Distance/Direction: Plotted as:	4016477 0.24 MI / E Point

Map ID **8**

STATE UST - State Underground Storage Tank / SRC# 45 | EPA/Agency ID: N/A

Agency Address:	SAME AS ABOVE
Facility Name:	GOODWILL CAB CO INC
Facility Address:	1632 E 14TH OAKLAND, CA 94606
Facility County:	01000
Total Underground Tanks:	3

Total Aboveground Tanks:	NOT REPORTED
Total Tanks Removed:	0
Tank ID #:	T001U
Tank Contents:	UNLEADED GAS
Tank Age:	0
Tank Capacity:	3000 GALLONS
Tank Status:	ACTIVE/IN SERVICE
Leak Monitor:	MONITOR PRESENT
Piping Type:	UNKNOWN
Tank Material:	UNKNOWN
Tank ID #:	T001U
Tank Contents:	UNLEADED GAS
Tank Age:	0
Tank Capacity:	3000 GALLONS
Tank Status:	ACTIVE/IN SERVICE
Leak Monitor:	MONITOR PRESENT
Piping Type:	UNKNOWN
Tank Material:	UNKNOWN
Tank ID #:	T001U
Tank Contents:	UNLEADED GAS
Tank Age:	0
Tank Capacity:	5000 GALLONS
Tank Status:	ACTIVE/IN SERVICE
Leak Monitor:	MONITOR PRESENT
Piping Type:	UNKNOWN
Tank Material:	UNKNOWN

VISTA Address*:	BLDG. P-323 1755 EMBARCADERO OAKLAND, CA 94606	VISTA ID#:	1252820
		Distance/Direction:	0.24 MI / SE
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 45		EPA/Agency ID:	N/A

Map ID **9**

Agency Address:	SAME AS ABOVE
Facility Name:	BLDG P-323
Facility Address:	1755 EMBARCADERO OAKLAND, CA 94606
Facility County:	01000THOMA
Total Underground Tanks:	2
Total Aboveground Tanks:	NOT REPORTED
Total Tanks Removed:	2
Tank ID #:	58297.01
Tank Contents:	OTHER
Tank Age:	0
Tank Capacity:	1000 GALLONS

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

Tank Status:	*CLOSED REMOVED*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*UNKNOWN*
Tank ID #:	*58297.01*
Tank Contents:	*OTHER*
Tank Age:	*0*
Tank Capacity:	*10000 GALLONS*
Tank Status:	*CLOSED REMOVED*
Leak Monitor:	*MONITOR PRESENT*
Piping Type:	*UNKNOWN*
Tank Material:	*UNKNOWN*

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)

VISTA Address*:	**USDOT CG TWELFTH DIST FLP** **CG GOVNMT ISL** **ALAMEDA, CA 94501**	VISTA ID#: Distance/Direction: Plotted as:	5241062 0.29 MI / S Point
NFRAP / SRC# 18		Agency ID:	0903445

Map ID **10**

Agency Address:	*12TH COAST GUARD DISTRICT* *GOVERNMENT ISLAND* *ALAMEDA, CA 94501*
EPA ID:	*CA7690390037*
Site ID:	*0903445*
EPA Region:	*09*
USGS Hydrologic Unit Code:	*18050004*
Ownership Type:	*FEDERALLY OWNED*
Federal Facility Indicator:	*FEDERAL FACILITY*
NPL Status:	*NOT ON THE NPL*
Hazardous Waste Docket Flag:	*LISTED ON THE HAZARDOUS WASTE DOCKET*
Action:	*DISCOVERY*
Action Lead:	*FEDERAL FACILITIES*
Scheduled Completion Date:	*JUNE 30, 1987*
Actual Completion Date:	*JUNE 1, 1987*
Action:	*PRELIMINARY ASSESSMENT*
Action Qualifier:	*NFRAP (NO FUTHER REMEDIAL ACTION PLANNED*
Action Lead:	*FEDERAL FACILITIES*
Scheduled Completion Date:	*SEPTEMBER 30, 1992*
Actual Completion Date:	*JULY 7, 1992*
Operable Unit ID:	*00*
Operable Unit Name:	*SITEWIDE*
Alias ID:	*101*
Alias Name:	*US COAST GUARD SUPPORT CENTER,ALAMEDA CA*

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Fields Not Reported by the Source Agency for this Site:	*Financial Management System ID(1), Site Incident Category Description(1), Action Qualifier(1), Scheduled Start Date(2), Actual Start Date(2), Description(1), (1), (1), (1), Address(1)*

VISTA Address*:	**USCG SUPPORT CENTER COAST GUARD ISLAND ALAMEDA, CA 0**	VISTA ID#:	65401070
		Distance/Direction:	0.30 MI / S
		Plotted as:	Point

Map ID **10**

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-1786

Agency Address:	*SAME AS ABOVE*
Case ID #:	*01-1786*
Site Name:	*USCG SUPPORT CENTER*
Site Address:	*COAST GUARD ISLAND* *ALAMEDA, CA*
Site County:	*ALAMEDA*
Date Entered:	*6/15/93*
Substance Leaked:	*NOT REPORTED*
Media Affected:	*NOT REPORTED*
Discovery Date:	*NOT REPORTED*
Site Status:	*CASE CLOSED: REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.*
Maximum MTBE	*18*
Current MTBE	*18*
Fields Not Reported by the Source Agency for this Site:	*Maximum Soil(1), Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1)*

VISTA Address*:	**USCG SUPPORT CENTER UNKNOWN COAST GUARD ISLAND ALAMEDA, CA 94501**	VISTA ID#:	64542672
		Distance/Direction:	0.31 MI / S
		Plotted as:	Point

Map ID **10**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A

Agency Address:	*SAME AS ABOVE*
Site Name:	*USCG SUPPORT CENTER*
Site Location:	*UNKNOWN COAST GUARD ISLAND* *ALAMEDA CA 94501-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-1786*
Local Case ID #:	*2911*
Media Affected	*OTHER GROUNDWATER*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*CASE CLOSED*
Substance Leaked:	*GASOLINE*
	CODE LOOKUP. CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Enforcement Type:	*13267 LETTERS FOR ENFORCEMENT*
Funding By:	*FEDERAL FUNDS*

How was Leak Discovered	TANK CLOSURE
How was Leak Stopped:	CLOSE TANK
MTBE Tested	MTBE DETECTED
Program Type	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak	STRUCTRE FAILURE
Source of Leak	TANK
Longitude:	37.7680827
Latitude:	-122.2595313
Summary:	ARCHIVED 6/6/96 CONTROL NO 120-092 SRC 0904742
Date Leak was Confirmed	9/11/97
Date Case was Closed	12/13/00
Date Leak was Discovered:	9/10/97
Date of Enforcement Action	5/14/93
MTBE Date	UNKNOWN
Reported Date:	12/12/90
Date Leak was Stopped:	9/10/97
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Media Affected(1), Remediation Status(1), Abatement Method(1), How was Leak Discovered(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1)

VISTA Address*:	**CHRISTIAN INTERNATIONAL CHURCH** **1832 12TH ST E** **OAKLAND, CA 94606**	VISTA ID#:	11498345
		Distance/Direction:	0.30 MI / E
		Plotted as:	Point
STATE LUST - State Leaking Underground Storage Tank / SRC# 164		EPA/Agency ID:	N/A

Map ID **11**

Agency Address:	SAME AS ABOVE
Site Name:	CHRISTIAN INTERNATIONAL CHURCH
Site Location:	1832 12TH ST E OAKLAND CA 94606-
Site County:	ALAMEDA
Water Quality Control Board Region:	02
Case ID #:	01-2067
Local Case ID #:	4876
Media Affected	SOIL ONLY
Lead Agency:	LOCAL AGENCY LEAD
Remediation Status	CASE CLOSED
Substance Leaked:	GASOLINE
Abatement Method	GT CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Funding By:	FEDERAL FUNDS
How was Leak Discovered	OTHER MEANS

How was Leak Stopped:	OTHER MEANS
MTBE Tested	SITE NOT TESTED FOR MTBE
Program Type	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak	UNKNOWN
Source of Leak	UNKNOWN
Longitude:	37.7861301
Latitude:	-122.2422739
Summary:	ARCHIVED 6/6/96 CONTROL NO 120-094 SRC 0904744
Date Leak was Confirmed	3/31/95
Date Case was Closed	3/26/96
Date Leak was Discovered:	2/14/91
Reported Date:	2/20/91
Date Leak was Stopped:	2/14/91
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Remediation Status(1), Enforcement Type(1), How was Leak Discovered(1), How was Leak Stopped(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Source of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date of Enforcement Action(1), MTBE Date(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-2067

Agency Address:	CHRISTIAN INTERNATIONAL CHURCH 1832 12TH ST E OAKLAND, CA 0
Case ID #:	01-2067
Site Name:	CHRISTIAN INTERNATIONAL CHURCH
Site Address:	1832 12TH ST E OAKLAND, CA
Site County:	ALAMEDA
Date Entered:	5/16/95
Maximum Soil	6
Maximum Groundwater	ND
Current Benzene	ND
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED
Discovery Date:	NOT REPORTED
Site Status:	CASE CLOSED: REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.
Fields Not Reported by the Source Agency for this Site:	MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)

VISTA Address*:	SALLE'S PAINT BODY 1049 9TH AVENUE OAKLAND, CA 94606	VISTA ID#:	365929
		Distance/Direction:	0.32 MI / NW
		Plotted as:	Point

Map ID **12**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A

Agency Address:	SALLE'S PAINT BODY SHOP 1049 9TH AVE OAKLAND, CA 94606
Site Name:	SALLE'S PAINT BODY SHOP

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Site Location:	1049 9TH AVE OAKLAND CA 94606-
Site County:	ALAMEDA
Water Quality Control Board Region:	02
Case ID #:	01-2402
Local Case ID #:	233
Media Affected	UNDEFINED
Lead Agency:	LOCAL AGENCY LEAD
Remediation Status	LEAK BEING CONFIRMED
Substance Leaked:	DIESEL
	CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Funding By:	FEDERAL FUNDS
How was Leak Discovered	TANK CLOSURE
How was Leak Stopped	CLOSE TANK
MTBE Tested	NOT REQUIRED TO BE TESTED
Program Type	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak	UNKNOWN
Source of Leak	UNKNOWN
Longitude:	37.7913031
Latitude:	-122.2530062
Summary:	NEW CASE PER ACHD UPDATE - 9/98.
Date Leak was Confirmed	11/16/93
Date Leak was Discovered:	9/6/94
Reported Date:	9/6/94
Date Leak was Stopped:	9/6/94
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Abatement Method(1), Enforcement Type(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Source of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date Case was Closed(1), Date of Enforcement Action(1), MTBE Date(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-2402

Agency Address:	SALLE'S PAINT BODY SHOP 1049 9TH AVE OAKLAND, CA 0
Case ID #:	01-2402
Site Name:	SALLE'S PAINT BODY SHOP
Site Address:	1049 9TH AVE OAKLAND, CA
Site County:	ALAMEDA
Date Entered:	9/28/98
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED
Discovery Date:	NOT REPORTED

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Site Status:	*LEAK CONFIRMED: A LAB REPORTRECEIVED CONFIRMING A LEAK/SPILL FROM A TANK.*
Fields Not Reported by the Source Agency for this Site:	*Maximum Soil(1), Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*

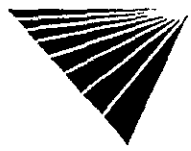
				Map ID
VISTA Address*:	**LIQUID CARBONIC SPEC GAS CORP** **901 EMBARCADERO ST** **OAKLAND, CA 94606**	VISTA ID#:	245989	**13**
		Distance/Direction:	0.33 MI / W	
		Plotted as:	Point	

NFRAP / SRC# 18 — Agency ID: 0903630

Agency Address:	*LIQUID CARBONIC CORP* *901 EMBARCADERO* *OAKLAND, CA 94606*
EPA ID:	*CAD009156662*
Site ID:	*0903630*
EPA Region:	*09*
USGS Hydrologic Unit Code:	*18050004*
Ownership Type:	*PRIVATE*
Federal Facility Indicator:	*NOT A FEDERAL FACILITY*
NPL Status:	*NOT ON THE NPL*
Hazardous Waste Docket Flag:	*NOT ON THE HAZARDOUS WASTEDOCKET*
Action:	*DISCOVERY*
Action Lead:	*STATE, FUND FINANCED*
Actual Completion Date:	*DECEMBER 1, 1987*
Action:	*PRELIMINARY ASSESSMENT*
Action Qualifier	*NFRAP (NO FUTHER REMEDIAL ACTION PLANNED*
Action Lead:	*STATE, FUND FINANCED*
Actual Completion Date:	*NOVEMBER 1, 1989*
Operable Unit ID:	*00*
Operable Unit Name:	*SITEWIDE*
Fields Not Reported by the Source Agency for this Site:	*Financial Management System ID(1), Site Incident Category Description(2), Action Qualifier(1), Scheduled Start Date(2), Scheduled Completion Date(2), Actual Start Date(2), (1), (1), (1)*

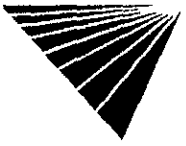
SCL - State Equivalent CERCLIS List / SRC# 112 — Agency ID: 01280015

Agency Address:	*LIQUID CARBONIC CORPORATION* *901 EMBARCADERO* *OAKLAND, CA 94606*
Agency ID:	*01280015*
Facility Name:	*LIQUID CARBONIC CORPORATION*
Facility Address:	*901 EMBARCADERO* *OAKLAND, CA. 94606*
Region:	*BERKELEY*
County:	*ALAMEDA*
Branch:	*NORTH COAST*
Status Date:	*03141995*
Status:	*REFOA*
Status Description:	*PROPERTY/SITE REFERRED TO ANOTHER AGENCY*
Lead Agency:	*N/A*
Type Name:	*N/A*
SIC Number:	*28*



SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

SIC Name:	*MANU - CHEMICALS ALLIED PRODUCTS*
Water Control Board Region:	*SAN FRANCISCO BAY*
Access:	*C*
Number of Sources:	*0*
Latitude:	*0-DEG, 0-MIN, 0-SEC*
Latitude Direction:	*NOT REPORTED*
Longitude:	*0-DEG, 0-MIN, 0-SEC*
Longitude Direction:	*NOT REPORTED*
Alternate Address:	*901 EMBARCADERO* *OAKLAND, CA, 94606*
Alternate Name:	*LIQUID CARBONIC CORPORATION*
Special Program:	*CERC2*
Special Name:	*CERCLA II*
Comment Key:	*3*
Activity Number:	*PA*
Completion Date:	*10041988*
Estimated Years to Finish:	*0*
Status at Start:	*PROPERTY/SITE REFERRED TO ANOTHER AGENCY*
Cubic Yards Removed:	*0*
Gallons Removed:	*0*
Yards Treated:	*0*
Gallons Treated:	*0*
Comment Key:	*2*
Activity Number:	*SS*
Completion Date:	*04211987*
Estimated Years to Finish:	*0*
Status at Start:	*PROPERTY/SITE REFERRED TO ANOTHER AGENCY*
Cubic Yards Removed:	*0*
Gallons Removed:	*0*
Yards Treated:	*0*
Gallons Treated:	*0*
Comment Key:	*1*
Activity Number:	*DISC*
Type of Activity:	*DISCOVERY*
Completion Date:	*03151980*
Estimated Years to Finish:	*0*
Status at Start:	*PROPERTY/SITE REFERRED TO ANOTHER AGENCY*
Cubic Yards Removed:	*0*
Gallons Removed:	*0*
Yards Treated:	*0*
Gallons Treated:	*0*
Agency ID:	*01280015*



SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Comments:	*INDUSTRIAL WASTE QUEST. SENT2/21/80 FACILITY IDENTIFIEDQUESTIONNAIRE SENT QUEST. RECEIVED INSPECTION(STATE)SITE INSPECTION FINAL STRATEGY SITE REFERRED: TO HWMB/ENF INSPECTION(OTHER) ALAMEDA CO HAZ WST PPDJECT -NO VIOL SITE SCREENING DONEDUMPING OF OIL RESIDUE TO SOIL, SOIL IS DISCOLORED. LINED ACETYLENE POND FREQLY OVERFLOWED. INSPECTION(OTHER)BAY AREA AIR QUALITY MNGMTDIST - NO VIO FACILITY DRIVE-BY POND AND STAINED SOILNOT VISIBLE PRELIM ASSESS DONE SI LOW: UNKNOWN CONTAMINANTS WERE DOCU- MENTED AND WASTEWATER PONDS WERE ALSO OBSERVED FAC OWNED BY HOUSTONNATURAL GAS OF TX SUBMIT TOEPA NFA: BASED ON READILY AVAILABLE INFO; FAC WILLNOT SCORE AS AN NPL CANDIDATE*
Fields Not Reported by the Source Agency for this Site:	*NPL(1), Tier(1), Fund(1), Cortese(1), Hazard Ranking Score(1), Hazard Ranking Date(1), Groundwater(1), Type of Activity(2), Comment Description(3)*

STATE LUST - State Leaking Underground Storage Tank / SRC# 164 | EPA/Agency ID: | N/A

Agency Address:	*LIQUID CARBONIC CORP* *901 EMBARCADERO* *OAKLAND, CA 94606*
Site Name:	*LIQUID CARBONIC CORP*
Site Location:	*901 EMBARCADERO* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-0916*
Local Case ID #:	*220*
Media Affected	*OTHER GROUNDWATER*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*CASE CLOSED*
Substance Leaked:	*GASOLINE*
Abatement Method	*ETED* *CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Enforcement Type	*NONE TAKEN*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped	*CLOSE TANK*
MTBE Tested	*SITE NOT TESTED FOR MTBE*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*STRUCTRE FAILURE*
Source of Leak	*TANK*
Longitude:	*37.798627*
Latitude:	*-122.2851046*
Summary:	*SS ONLY:TPH=1300000PPM B=36000PPM. REQ. CASE CLOSUREII011/O4/96..CASE CLOSED..11/14/96. THIS SITE IS NOT CLOSED ACHCSA REQUESTS WP (12/4/00).*
Date Preliminary Site Assessment Workpla	*4/27/90*
Date Case was Closed	*1/25/97*
Date Leak was Discovered:	*1/12/90*
Reported Date:	*2/6/90*

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Date Leak was Stopped:	*1/12/90*
Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Media Affected(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1)*

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-0916

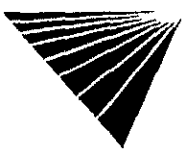
Agency Address:	*LIQUID CARBONIC CORP* *901 EMBARCADERO* *OAKLAND, CA 0*
Case ID #:	*01-0916*
Site Name:	*LIQUID CARBONIC CORP*
Site Address:	*901 EMBARCADERO* *OAKLAND, CA*
Site County:	*ALAMEDA*
Date Entered:	*5/25/90*
Maximum Soil	*130000*
Maximum Groundwater	*66000*
Substance Leaked:	*NOT REPORTED*
Media Affected:	*NOT REPORTED*
Discovery Date:	*NOT REPORTED*
Site Status:	*CASE CLOSED; REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.*
Fields Not Reported by the Source Agency for this Site:	*Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*

VISTA Address*:	**J R USED AUTO PARTS** **823 E. 12TH ST** **OAKLAND, CA 94606**	VISTA ID#:	3065439
		Distance/Direction:	0.37 MI / NW
		Plotted as:	Point

Map ID **14**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A

Agency Address:	*JR USED AUTO PARTS* *823 12TH ST E* *OAKLAND, CA 94606*
Site Name:	*JR USED AUTO PARTS*
Site Location:	*823 12TH ST E* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-0806*
Local Case ID #:	*01-0806*
Media Affected	*SOIL ONLY*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*LEAK BEING CONFIRMED*
Substance Leaked:	*MINERAL SPIRITS*
Abatement Method	*NT* *CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Enforcement Type	*NONE TAKEN*
Funding By:	*FEDERAL FUNDS*



How was Leak Discovered	TANK CLOSURE
How was Leak Stopped	CLOSE TANK
MTBE Tested	NOT REQUIRED TO BE TESTED
Program Type	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak	STRUCTRE FAILURE
Source of Leak	TANK
Longitude:	37.792566
Latitude:	-122.2520532
Summary:	9/18 RFWP, 27000 PPM LEAD INSOIL
Date Leak was Confirmed	9/23/91
Date Leak was Discovered:	9/23/91
Reported Date:	9/23/91
Date Leak was Stopped:	9/23/91
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date Case was Closed(1), Date of Enforcement Action(1), MTBE Date(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-0806

Agency Address:	JR USED AUTO PARTS 823 12TH ST E OAKLAND, CA 0
Case ID #:	01-0806
Site Name:	JR USED AUTO PARTS
Site Address:	823 12TH ST E
Site County:	OAKLAND, CA ALAMEDA
Date Entered:	10/11/91
Maximum Soil	187000
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED
Discovery Date:	NOT REPORTED
Site Status:	LEAK CONFIRMED: A LAB REPORTRECEIVED CONFIRMING A LEAK/SPILL FROM A TANK.
Fields Not Reported by the Source Agency for this Site:	Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)

VISTA Address*:	1X CAKEBREAD GARAGE 802 E. 12TH ST OAKLAND, CA 94606	VISTA ID#:	6604086
		Distance/Direction:	0.38 MI / NW
		Plotted as:	Point

Map ID **14**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A

Agency Address:	CAKEBREAD'S GARAGE INC 802 12TH ST E OAKLAND, CA 94606
Site Name:	CAKEBREAD'S GARAGE INC
Site Location:	802 12TH ST E
Site County:	OAKLAND CA 94606- ALAMEDA

Water Quality Control Board Region:	02
Case ID #:	01-0492
Local Case ID #:	200
Media Affected	OTHER GROUNDWATER
Lead Agency:	LOCAL AGENCY LEAD
Remediation Status	CASE CLOSED
Substance Leaked:	GASOLINE
Abatement Method	ED
	CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Enforcement Type	13267 LETTERS FOR ENFORCEMENT
Funding By:	FEDERAL FUNDS
How was Leak Discovered	TANK CLOSURE
How was Leak Stopped	CLOSE TANK
MTBE Tested	SITE NOT TESTED FOR MTBE
Program Type	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak	STRUCTRE FAILURE
Source of Leak	TANK
Longitude:	37.792858
Latitude:	-122.2520102
Summary:	ARCHIVED 6/6/96 CONTROL NO 120-077 SRC 0904727
Date Leak was Confirmed	6/16/93
Date Case was Closed	6/9/95
Date Leak was Discovered:	11/16/90
Date of Enforcement Action	12/27/91
Reported Date:	4/7/89
Date Leak was Stopped:	11/16/90
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Media Affected(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), MTBE Date(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-0492

Agency Address:	CAKEBREAD'S GARAGE INC 802 12TH ST E OAKLAND, CA 0
Case ID #:	01-0492
Site Name:	CAKEBREAD'S GARAGE INC
Site Address:	802 12TH ST E OAKLAND, CA
Site County:	ALAMEDA
Date Entered:	3/24/93
Maximum Soil	6100
Maximum Groundwater	130000

Current Benzene	ND
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED
Discovery Date:	NOT REPORTED
Site Status:	CASE CLOSED: REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.
Fields Not Reported by the Source Agency for this Site:	MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)

VISTA Address*:			
	BUILDING H-232, PORT OF OAKLAND 845 EMBARCADERO OAKLAND, CA 94606	VISTA ID#:	3078297
		Distance/Direction:	0.39 MI / W
		Plotted as:	Point
NFRAP / SRC# 18		Agency ID:	0900314

Map ID **15**

Agency Address:	SAME AS ABOVE
EPA ID:	CAD000098806
Site ID:	0900314
EPA Region:	09
USGS Hydrologic Unit Code:	18050004
Ownership Type:	PRIVATE
Federal Facility Indicator:	NOT A FEDERAL FACILITY
NPL Status:	NOT ON THE NPL
Hazardous Waste Docket Flag:	NOT ON THE HAZARDOUS WASTEDOCKET
Action:	DISCOVERY
Action Lead:	EPA FUND-FINANCED
Scheduled Completion Date	MARCH 31, 1991
Actual Completion Date:	JANUARY 1, 1991
Action:	PRELIMINARY ASSESSMENT
Action Qualifier	NFRAP (NO FUTHER REMEDIAL ACTION PLANNED
Action Lead:	EPA FUND-FINANCED
Scheduled Completion Date	MARCH 31, 1992
Actual Completion Date:	FEBRUARY 7, 1992
Operable Unit ID:	00
Operable Unit Name:	SITEWIDE
Alias ID:	101
Alias Name:	MIDLAND ROSS CORP, METAL FRAMING DIV. CA
Fields Not Reported by the Source Agency for this Site:	Financial Management System ID(1), Site Incident Category Description(1), Action Qualifier(1), Scheduled Start Date(2), Actual Start Date(2), Description(1), (1), (1), (1), Address(1)

VISTA Address*:			
	CANNEY BLDG H 211 845 EMBARCADERO OAKLAND, CA 94606	VISTA ID#:	12639645
		Distance/Direction:	0.39 MI / W
		Plotted as:	Point
STATE LUST - State Leaking Underground Storage Tank / SRC# 164		EPA/Agency ID:	N/A

Map ID **15**

Agency Address:	SAME AS ABOVE
Site Name:	CANNEY BLDG H 211
Site Location:	845 EMBARCADERO OAKLAND CA 94606-

Site County:	ALAMEDA
Water Quality Control Board Region:	02
Case ID #:	01-2423
Local Case ID #:	225
Media Affected	UNDEFINED
Lead Agency:	LOCAL AGENCY LEAD
Remediation Status	PRELIMINARY SITE ASSESSMENTWORKPLAN SUBMITTED
Substance Leaked:	DIESEL
	CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Enforcement Type	NONE TAKEN
Funding By:	FEDERAL FUNDS
How was Leak Discovered	TANK CLOSURE
How was Leak Stopped	CLOSE TANK
MTBE Tested	NOT REQUIRED TO BE TESTED
Program Type	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak	UNKNOWN
Source of Leak	UNKNOWN
Longitude:	37.7890411
Latitude:	-122.2566492
Summary:	NEW CASE PER ACHD UPDATE - 9/98.
Date Leak was Confirmed	10/30/97
Date Preliminary Site Assessment Workpla	UNKNOWN
Date Leak was Discovered:	8/30/96
Reported Date:	8/30/96
Date Leak was Stopped:	8/30/96
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Remediation Status(1), Abatement Method(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Source of Leak(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date Case was Closed(1), Date of Enforcement Action(1), MTBE Date(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-2423

Agency Address:	CANNEY BLDG H 211 845 EMBARCADERO OAKLAND, CA 0
Case ID #:	01-2423
Site Name:	CANNEY BLDG H 211
Site Address:	845 EMBARCADERO OAKLAND, CA
Site County:	ALAMEDA
Date Entered:	9/30/98
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Discovery Date:	*NOT REPORTED*
Site Status:	*PRELIMINARY SITE ASSESSMENTWORKPLAN SUBMITTED: A WORKPLAN AND IMPLEMENTATION SCHEDULE HAS BEEN SUBMITTED TO DETERMINE IF THE GROUNDWATER HAS BEEN OR WILL BE IMPACTED.THIS PLAN INCLUDES THE INSTALLATION OF MONITORING WELLS.*
Fields Not Reported by the Source Agency for this Site:	*Maximum Soil(1), Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*

VISTA Address*:	**SOUTHERN PACIFIC RAILYARD** **UNKNOWN 8TH ST E 8TH AVE** **OAKLAND, CA 94607**	VISTA ID#: Distance/Direction: Plotted as:	64570494 0.40 MI / NW Point

Map ID **16**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164 — EPA/Agency ID: N/A

Agency Address:	*SAME AS ABOVE*
Site Name:	*SOUTHERN PACIFIC RAILYARD*
Site Location:	*UNKNOWN 8TH ST E 8TH AVE* *OAKLAND CA 94607-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-1406*
Local Case ID #:	*01-1406*
Media Affected	*UNDEFINED*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*PRELIMNARY SITE ASSESSMENTUNDERWAY*
Substance Leaked:	*DIESEL*
Abatement Method	*GT* *CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Enforcement Type	*NONE TAKEN*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped	*CLOSE TANK*
MTBE Tested	*NOT REQUIRED TO BE TESTED*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*STRUCTRE FAILURE*
Source of Leak	*TANK*
Longitude:	*37.8023699*
Latitude:	*-122.2814495*
Summary:	*PLAN TO PUMP TREAT EXCAVATION WATER, SENT FILE TO ACHD9/94*
Date Preliminary Site Assessment Began	*4/25/89*
Date Leak was Discovered:	*1/6/89*
Reported Date:	*1/6/89*
Date Leak was Stopped:	*1/6/89*

Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Leak was Confirmed(1), Date Preliminary Site Assessment Workpla(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date Case was Closed(1), Date of Enforcement Action(1), MTBE Date(1)*

VISTA Address*:	**NATIONAL IMPORT** **1148 18TH** **OAKLAND, CA 94607**	VISTA ID#:	4222285	Map ID **17**
		Distance/Direction:	0.43 MI / NE	
		Plotted as:	Point	

STATE LUST - State Leaking Underground Storage Tank / SRC# 164 — EPA/Agency ID: N/A

Agency Address:	*NATIONAL IMPORT* *1148 18TH ST E* *OAKLAND, CA 94606*
Site Name:	*NATIONAL IMPORT*
Site Location:	*1148 18TH ST E* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-1780*
Local Case ID #:	*3659*
Media Affected	*UNDEFINED*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*CASE CLOSED*
Substance Leaked:	*DIESEL*
Abatement Method	*ED* *CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Enforcement Type	*NONE TAKEN*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped	*CLOSE TANK*
MTBE Tested	*NOT REQUIRED TO BE TESTED*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*CORROSION*
Source of Leak	*TANK*
Longitude:	*37.7936539*
Latitude:	*-122.2445489*
Summary:	*ARCHIVED 6/6/96 CONTROL NO 120-092 SRC 0904742*
Date Preliminary Site Assessment Workpla	*3/6/92*
Date Case was Closed	*3/2/94*
Date Leak was Discovered:	*10/2/91*
Reported Date:	*10/2/91*
Date Leak was Stopped:	*10/2/91*

Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Date Leak was Confirmed(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date of Enforcement Action(1), MTBE Date(1)*

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-1780

Agency Address:	*NATIONAL IMPORT* *1148 18TH ST E* *OAKLAND, CA 0*
Case ID #:	*01-1780*
Site Name:	*NATIONAL IMPORT*
Site Address:	*1148 18TH ST E* *OAKLAND, CA*
Site County:	*ALAMEDA*
Date Entered:	*6/15/93*
Substance Leaked:	*NOT REPORTED*
Media Affected:	*NOT REPORTED*
Discovery Date:	*NOT REPORTED*
Site Status:	*CASE CLOSED: REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.*
Fields Not Reported by the Source Agency for this Site:	*Maximum Soil(1), Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*

VISTA Address*:	**WILLIAM WURZBACH COMPANY** **1200 20TH AVE** **OAKLAND, CA 94606**	VISTA ID#:	8568296
		Distance/Direction:	0.43 MI / E
		Plotted as:	Point

Map ID **18**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A

Agency Address:	*SAME AS ABOVE*
Site Name:	*WILLIAM WURZBACH COMPANY*
Site Location:	*1200 20TH AVE* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-2066*
Local Case ID #:	*4868*
Media Affected	*OTHER GROUNDWATER*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*PRELIMNARY SITE ASSESSMENTUNDERWAY*
Substance Leaked:	*GASOLINE*
	CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*OTHER MEANS*
How was Leak Stopped	*OTHER MEANS*
MTBE Tested	*MTBE DETECTED*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Repsonsible Party:	*BLANK RP*
Cause of Leak	*UNKNOWN*
Source of Leak	*UNKNOWN*
Longitude:	*37.7849742*
Latitude:	*-122.2405248*
Summary:	*FORMERLY LISTED AS SILVEIRAPROPERTY. ACHD REQ ADDITIONAL SITE CHARACTERIZATION BEFORE CLOSURE - 5/5/98.*
Date Preliminary Site Assessment Workpla	*3/31/95*
Date Preliminary Site Assessment Began	*UNKNOWN*
Date Leak was Discovered:	*2/14/94*
MTBE Date	*UNKNOWN*
Reported Date:	*1/19/94*
Date Leak was Stopped:	*2/14/94*
Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Media Affected(1), Abatement Method(1), Enforcement Type(1), How was Leak Discovered(1), How was Leak Stopped(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Source of Leak(1), Date Leak was Confirmed(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date Case was Closed(1), Date of Enforcement Action(1)*

STATE LUST - State Leaking Underground Storage Tank / SRC# 853 | Agency ID: 01-2066

Agency Address:	*WILLIAM WURZBACH COMPANY* *1200 20TH AVE* *OAKLAND, CA 0*
Case ID #:	*01-2066*
Site Name:	*WILLIAM WURZBACH COMPANY*
Site Address:	*1200 20TH AVE* *OAKLAND, CA*
Site County:	*ALAMEDA*
Date Entered:	*5/16/95*
Maximum Soil	*5*
Maximum Groundwater	*1900*
Currrent Benzene	*92*
Substance Leaked:	*NOT REPORTED*
Media Affected:	*NOT REPORTED*
Discovery Date:	*NOT REPORTED*
Site Status:	*PRELIMINARY SITE ASSESSMENTUNDERWAY: IMPLEMENTATION OFWORKPLAN. THIS PHASE OF WORKINVOLVES DETERMINING IF GROUNDWATER HAS BEEN IMPACTED.WORK PERFORMED DURING THISPHASE INCLUDES THE INSTALLATION OF UP TO THREE MONITORING WELLS IN ORDER TO DETERMINE THE SPECIFIC GRADIENT. ATLEAST ONE WELL SHOULD BE PLACED WITHIN 10' OF THE SUSPECTED POINT OF DISCHARGE IN AVERIFIED DOWNGRADIENT LOCATION. OTHER WORK PERFORMED DURING THIS PHASE MAY INCLUDESOIL BORINGS, SOIL GAS SURVEYS, ADDITIONAL EXCAVATION AND INTERIM REMEDIATION MEASURES. THE CASE WOULD MOVE TOSTATUS 5 WHEN THE WORK EXCEEDS THAT WHICH WAS REQUIRED FOR GRADIENT DEFINITION AND INITIAL GROUNDWATER VERIFICATION (USUALLY THE INSTALLATION OF MORE THAN THREE WELLS).*
Maximum MTBE	*120*
Current MTBE	*120*
Fields Not Reported by the Source Agency for this Site:	*MTBE Qualifier(1)*

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA Address*:	1X WONG'S ARCO STATION 2032 E. 12TH ST OAKLAND, CA 94606	VISTA ID#:	1247329	Map ID 18
		Distance/Direction:	0.45 MI / E	
		Plotted as:	Point	
STATE LUST - State Leaking Underground Storage Tank / SRC# 164		EPA/Agency ID:	N/A	

Agency Address:	*ARCO* *2032 12TH ST E* *OAKLAND, CA 94606*
Site Name:	*ARCO*
Site Location:	*2032 12TH ST E*
Site County:	*OAKLAND CA 94606-* *ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-0093*
Local Case ID #:	*198*
Media Affected	*UNDEFINED*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*CASE CLOSED*
Substance Leaked:	*GASOLINE*
Abatement Method	*ED* *CODE LOOKUP. CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Enforcement Type	*NONE TAKEN*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped	*CLOSE TANK*
MTBE Tested	*SITE NOT TESTED FOR MTBE*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*STRUCTRE FAILURE*
Source of Leak	*TANK*
Longitude:	*37.7849162*
Latitude:	*-122.2402068*
Summary:	*ARCHIVED 6/6/96 CONTROL NO 120-073 SRC 0904723*
Date Leak was Confirmed	*6/16/93*
Date Case was Closed	*12/22/95*
Date Leak was Discovered:	*9/22/89*
Reported Date:	*12/31/89*
Date Leak was Stopped:	*9/22/89*
Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date of Enforcement Action(1), MTBE Date(1)*

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-0093

Agency Address:	*ARCO* *2032 12TH ST E* *OAKLAND, CA 0*
Case ID #:	*01-0093*
Site Name:	*ARCO*
Site Address:	*2032 12TH ST E* *OAKLAND, CA*
Site County:	*ALAMEDA*
Date Entered:	*12/20/89*
Substance Leaked:	*NOT REPORTED*
Media Affected:	*NOT REPORTED*
Discovery Date:	*NOT REPORTED*
Site Status:	*CASE CLOSED: REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.*
Fields Not Reported by the Source Agency for this Site:	*Maximum Soil(1), Maximum Groundwater(1), Currrent Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*

VISTA Address*:	**HARLEY DAVIDSON MOTORCYCLE** **744 12TH ST E** **OAKLAND, CA 94606**	VISTA ID#:	11498342
		Distance/Direction:	0.43 MI / NW
		Plotted as:	Point

Map ID **19**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A

Agency Address:	*SAME AS ABOVE*
Site Name:	*HARLEY DAVIDSON MOTORCYCLE*
Site Location:	*744 12TH ST E* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-2340*
Local Case ID #:	*2957*
Media Affected	*UNDEFINED*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*LEAK BEING CONFIRMED*
Substance Leaked:	*GASOLINE* *CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped	*CLOSE TANK*
MTBE Tested	*MTBE DETECTED*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*UNKNOWN*
Source of Leak	*UNKNOWN*
Longitude:	*37.793433*

Latitude:	-122.2526782
Summary:	NEW CASE PER ACHD QTR UPDATE- 8/98. ACHD REQ FUTHER SOIL GW CONTAMINATION ASSESSMENT BY 6/8/98.
Date Leak was Confirmed	8/10/98
Date Leak was Discovered:	4/18/96
MTBE Date	UNKNOWN
Reported Date:	4/18/96
Date Leak was Stopped:	4/18/96
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Abatement Method(1), Enforcement Type(1), How was Leak Discovered(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Source of Leak(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-2340

Agency Address:	HARLEY DAVIDSON MOTORCYCLE 744 12TH ST E OAKLAND, CA 0
Case ID #:	01-2340
Site Name:	HARLEY DAVIDSON MOTORCYCLE
Site Address:	744 12TH ST E OAKLAND, CA
Site County:	ALAMEDA
Date Entered:	6/14/94
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED
Discovery Date:	NOT REPORTED
Site Status:	LEAK CONFIRMED: A LAB REPORTRECEIVED CONFIRMING A LEAK/SPILL FROM A TANK.
Maximum MTBE	250
Current MTBE	250
Fields Not Reported by the Source Agency for this Site:	Maximum Soil(1), Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1)

VISTA Address*:	MARINE TERMINALS CORP 101 10TH ST OAKLAND, CA 94606	VISTA ID#:	12639238
		Distance/Direction:	0.44 MI / W
		Plotted as:	Point

Map ID **20**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A

Agency Address:	SAME AS ABOVE
Site Name:	MARINE TERMINALS CORP
Site Location:	101 10TH ST OAKLAND CA 94606-
Site County:	ALAMEDA
Water Quality Control Board Region:	02
Case ID #:	01-2403
Local Case ID #:	5067
Media Affected	UNDEFINED
Lead Agency:	LOCAL AGENCY LEAD
Remediation Status	PRELIMINARY SITE ASSESSMENTWORKPLAN SUBMITTED
Substance Leaked:	GASOLINE

	CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Funding By:	FEDERAL FUNDS
How was Leak Discovered	TANK CLOSURE
How was Leak Stopped	CLOSE TANK
MTBE Tested	SITE NOT TESTED FOR MTBE
Program Type	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak	UNKNOWN
Source of Leak	UNKNOWN
Longitude:	37.796295
Latitude:	-122.2597503
Summary:	NEW CASE PER ACHD UPDATE - 9/98.
Date Leak was Confirmed	10/30/97
Date Preliminary Site Assessment Workpla	UNKNOWN
Date Leak was Discovered:	5/2/97
Reported Date:	5/2/97
Date Leak was Stopped:	5/2/97
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Remediation Status(1), Abatement Method(1), Enforcement Type(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Source of Leak(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date Case was Closed(1), Date of Enforcement Action(1), MTBE Date(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-2403

Agency Address:	MARINE TERMINALS CORP 101 10TH ST OAKLAND, CA 0
Case ID #:	01-2403
Site Name:	MARINE TERMINALS CORP
Site Address:	101 10TH ST OAKLAND, CA
Site County:	ALAMEDA
Date Entered:	9/28/98
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED
Discovery Date:	NOT REPORTED
Site Status:	PRELIMINARY SITE ASSESSMENTWORKPLAN SUBMITTED: A WORKPLAN AND IMPLEMENTATION SCHEDULE HAS BEEN SUBMITTED TO DETERMINE IF THE GROUNDWATER HAS BEEN OR WILL BE IMPACTED.THIS PLAN INCLUDES THE INSTALLATION OF MONITORING WELLS.
Fields Not Reported by the Source Agency for this Site:	Maximum Soil(1), Maximum Groundwater(1), Currrent Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA Address*:	KEEP ON TRUCKING CO INC 370 8TH AVE OAKLAND, CA 94606	VISTA ID#:	1252818
		Distance/Direction:	0.46 MI / W
		Plotted as:	Point

Map ID **21**

STATE LUST - State Leaking Underground Storage Tank / SRC# 164 — EPA/Agency ID: N/A

Agency Address:	*KEEP ON TRUCKING 370 8TH AVE OAKLAND, CA 94606*
Site Name:	*KEEP ON TRUCKING*
Site Location:	*370 8TH AVE*
	OAKLAND CA 94606-
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-1965*
Local Case ID #:	*3335*
Media Affected	*OTHER GROUNDWATER*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*PRELIMINARY SITE ASSESSMENTWORKPLAN SUBMITTED*
Substance Leaked:	*DIESEL*
Abatement Method	*NT*
	CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Enforcement Type	*NONE TAKEN*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*OTHER MEANS*
How was Leak Stopped	*REMOVE CONTENTS*
MTBE Tested	*NOT REQUIRED TO BE TESTED*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*OVERFILL*
Source of Leak	*UNKNOWN*
Longitude:	*37.7890191*
Latitude:	*-122.2579273*
Summary:	*URF,SOURCE MAYBE COMMING FR9TH DIESEL SPILL ABOVE GROUND PIPING TK*
Date Preliminary Site Assessment Workpla	*UNKNOWN*
Date Leak was Discovered:	*2/12/93*
Reported Date:	*12/29/94*
Date Leak was Stopped:	*2/12/93*
Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Media Affected(1), Remediation Status(1), How was Leak Discovered(1), How was Leak Stopped(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Source of Leak(1), Date Leak was Confirmed(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date Case was Closed(1), Date of Enforcement Action(1), MTBE Date(1)*

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-1965
Agency Address:	*KEEP ON TRUCKING 370 8TH AVE OAKLAND, CA 0*	
Case ID #:	*01-1965*	
Site Name:	*KEEP ON TRUCKING*	
Site Address:	*370 8TH AVE OAKLAND, CA*	
Site County:	*ALAMEDA*	
Date Entered:	*4/29/93*	
Maximum Groundwater	*410000*	
Current Benzene	*140*	
Substance Leaked:	*NOT REPORTED*	
Media Affected:	*NOT REPORTED*	
Discovery Date:	*NOT REPORTED*	
Site Status:	*PRELIMINARY SITE ASSESSMENTWORKPLAN SUBMITTED: A WORKPLAN AND IMPLEMENTATION SCHEDULE HAS BEEN SUBMITTED TO DETERMINE IF THE GROUNDWATER HAS BEEN OR WILL BE IMPACTED.THIS PLAN INCLUDES THE INSTALLATION OF MONITORING WELLS.*	
Fields Not Reported by the Source Agency for this Site:	*Maximum Soil(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*	

VISTA Address*:	**CARD LOCK FORMER BUILDING H 204 79 8TH AVE OAKLAND, CA 94606**	VISTA ID#:	12639377	Map ID **21**
		Distance/Direction:	0.50 MI / W	
		Plotted as:	Point	

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-2400
Agency Address:	*CARD LOCK FORMER BUILDING H 204 79 8TH AVE OAKLAND, CA 0*	
Case ID #:	*01-2400*	
Site Name:	*CARD LOCK FORMER BUILDING H204*	
Site Address:	*79 8TH AVE OAKLAND, CA*	
Site County:	*ALAMEDA*	
Date Entered:	*9/28/98*	
Substance Leaked:	*NOT REPORTED*	
Media Affected:	*NOT REPORTED*	
Discovery Date:	*NOT REPORTED*	
Site Status:	*PRELIMINARY SITE ASSESSMENTWORKPLAN SUBMITTED. A WORKPLAN AND IMPLEMENTATION SCHEDULE HAS BEEN SUBMITTED TO DETERMINE IF THE GROUNDWATER HAS BEEN OR WILL BE IMPACTED.THIS PLAN INCLUDES THE INSTALLATION OF MONITORING WELLS.*	
Fields Not Reported by the Source Agency for this Site:	*Maximum Soil(1), Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*	

VISTA Address*:	**CARD LOCK FORMER BUILDING H 204 79 8TH AVE OAKLAND, CA 94606**	VISTA ID#:	67010372	Map ID **21**
		Distance/Direction:	0.50 MI / W	
		Plotted as:	Point	

STATE LUST - State Leaking Underground Storage Tank / SRC# 164	EPA/Agency ID:	N/A
Agency Address:	*SAME AS ABOVE*	
Site Name:	*CARD LOCK FORMER BUILDING H204*	

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Site Location:	*79 8TH AVE* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-2400*
Local Case ID #:	*6894*
Media Affected	*UNDEFINED*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*PRELIMINARY SITE ASSESSMENTWORKPLAN SUBMITTED*
Substance Leaked:	*GASOLINE*
	CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped	*CLOSE TANK*
MTBE Tested	*SITE NOT TESTED FOR MTBE*
Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*UNKNOWN*
Source of Leak	*UNKNOWN*
Longitude:	*37.7879672*
Latitude:	*-122.2593873*
Summary:	*NEW CASE PER ACHD UPDATE - 9/98.*
Date Leak was Confirmed	*10/30/97*
Date Preliminary Site Assessment Workpla	*UNKNOWN*
Date Leak was Discovered:	*2/5/97*
Reported Date:	*2/5/97*
Date Leak was Stopped:	*2/5/97*
Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Remediation Status(1), Abatement Method(1), Enforcement Type(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Source of Leak(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), Date Case was Closed(1), Date of Enforcement Action(1), MTBE Date(1)*

VISTA Address*:	**VUKASIM PROPERTY** **54 EMBRACADERO** **OAKLAND, CA 94606**	VISTA ID#:	5354419
		Distance/Direction:	0.49 MI / SE
		Plotted as:	Point
STATE LUST - State Leaking Underground Storage Tank / SRC# 164		EPA/Agency ID:	N/A

Map ID **22**

Agency Address:	*VUKASIM PROPERTY* *54 EMBARCADERO ST* *OAKLAND, CA 94606*
Site Name:	*VUKASIM PROPERTY*
Site Location:	*54 EMBARCADERO ST* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Water Quality Control Board Region:	02
Case ID #:	01-1564
Local Case ID #:	01-1564
Media Affected	OTHER GROUNDWATER
Lead Agency:	LOCAL AGENCY LEAD
Remediation Status	LEAK BEING CONFIRMED
Substance Leaked:	GASOLINE
Abatement Method	NT
	CODE LOOKUP: CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Enforcement Type	NONE TAKEN
Funding By:	FEDERAL FUNDS
How was Leak Discovered	TANK CLOSURE
How was Leak Stopped	CLOSE TANK
MTBE Tested	SITE NOT TESTED FOR MTBE
Program Type	LOCAL OVERSIGHT PROGRAM UST
Repsonsible Party:	BLANK RP
Cause of Leak	STRUCTRE FAILURE
Source of Leak	TANK
Longitude:	37.7939281
Latitude:	-122.2724804
Summary:	CURRENT MTBE DATE: 12/16/97
Date Leak was Confirmed	12/30/88
Date Leak was Discovered:	12/30/88
Reported Date:	12/30/88
Date Leak was Stopped:	12/30/88
Fields Not Reported by the Source Agency for this Site:	Cross Street(1), Media Affected(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Preliminary Site Assessment Workpla(1)

STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-1564

Agency Address:	VUKASIM PROPERTY 54 EMBARCADERO ST OAKLAND, CA 0
Case ID #:	01-1564
Site Name:	VUKASIM PROPERTY
Site Address:	54 EMBARCADERO ST OAKLAND, CA
Site County:	ALAMEDA
Date Entered:	12/30/88
Maximum Groundwater	9999999
Substance Leaked:	NOT REPORTED
Media Affected:	NOT REPORTED
Discovery Date:	NOT REPORTED
Site Status:	LEAK CONFIRMED: A LAB REPORTRECEIVED CONFIRMING A LEAK/SPILL FROM A TANK.

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Fields Not Reported by the Source Agency for this Site:	*Maximum Soil(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*

VISTA Address*:	**RYAN PAINTS** **630 E 10TH ST** **OAKLAND, CA 94606**	VISTA ID#:	363990	Map ID **23**
		Distance/Direction:	0.50 MI / NW	
		Plotted as:	Point	
NFRAP / SRC# 18		Agency ID:	0900297	

Agency Address:	*SAME AS ABOVE*
EPA ID:	*CAD981165582*
Site ID:	*0900297*
Financial Management System ID	*09F7*
EPA Region:	*09*
USGS Hydrologic Unit Code:	*18050004*
Ownership Type:	*PRIVATE*
Federal Facility Indicator:	*NOT A FEDERAL FACILITY*
NPL Status:	*NOT ON THE NPL*
Hazardous Waste Docket Flag:	*NOT ON THE HAZARDOUS WASTEDOCKET*
Site Incident Category Description	*ABANDONED*
Action:	*ADMINISTRATIVE RECORD*
Action Qualifier	*ADMIN RECORD COMPILED FOR AREMOVAL EVENT*
Action Lead:	*EPA FUND-FINANCED*
Scheduled Start Date	*FEBRUARY 15, 1991*
Scheduled Completion Date	*MARCH 31, 1991*
Actual Start Date	*FEBRUARY 15, 1991*
Actual Completion Date:	*FEBRUARY 15, 1991*
Action:	*COST RECOVERY NEGOTIATIONS*
Action Lead:	*FEDERAL ENFORCEMENT*
Actual Start Date	*APRIL 11, 1991*
Actual Completion Date:	*JANUARY 13, 1992*
Action Qualifier	*SEARCH COMPLETE, NO VIABLE PRPS*
Action Lead:	*FEDERAL ENFORCEMENT*
Actual Start Date	*JANUARY 25, 1988*
Actual Completion Date:	*JUNE 25, 1991*
Action:	*REMOVAL ACTION*
Action Qualifier	*CLEANED UP*
Action Lead:	*EPA FUND-FINANCED*
Scheduled Start Date	*FEBRUARY 4, 1988*
Scheduled Completion Date	*FEBRUARY 29, 1988*
Actual Start Date	*FEBRUARY 5, 1988*
Actual Completion Date:	*MARCH 14, 1988*
Action:	*UNILATERAL ADMINISTRATIVE ORDER*
Action Lead:	*FEDERAL ENFORCEMENT*
Actual Completion Date:	*JANUARY 28, 1988*
Financial Transaction ID:	*0002*
Transaction Type:	*ACTUAL OBLIGATION*

Transaction Date:	*MARCH 15, 1991*
Amount:	*$ 341.00*
Financial Transaction ID:	*0001*
Transaction Type:	*COMMITMENT*
Transaction Date:	*FEBRUARY 11, 1991*
Amount:	*$ 341.00*
Financial Transaction ID:	*0001*
Transaction Type:	*DECOMMITMENT*
Transaction Date:	*FEBRUARY 11, 1991*
Amount:	*$ 341.00*
Financial Transaction ID:	*0001*
Transaction Type:	*ACTUAL OBLIGATION*
Transaction Date:	*FEBRUARY 3, 1988*
Amount:	*$ 85,000.00*
Financial Transaction ID:	*0005*
Transaction Type:	*ACTUAL OBLIGATION*
Transaction Date:	*APRIL 21, 1988*
Amount:	*$ 5,000.00*
Financial Transaction ID:	*0008*
Transaction Type:	*ACTUAL OBLIGATION*
Transaction Date:	*SEPTEMBER 16, 1988*
Amount:	*$ 6,124.00*
Financial Transaction ID:	*0001*
Transaction Type:	*OPEN COMMITMENT*
Transaction Date:	*AUGUST 10, 1988*
Amount:	*$ 876.00*
Financial Transaction ID:	*0007*
Transaction Type:	*COMMITMENT*
Transaction Date:	*AUGUST 10, 1988*
Amount:	*$ 7,000.00*
Financial Transaction ID:	*0002*
Transaction Type:	*COMMITMENT*
Transaction Date:	*FEBRUARY 5, 1988*
Amount:	*$ 85,000.00*
Financial Transaction ID:	*0003*
Transaction Type:	*COMMITMENT*
Transaction Date:	*MARCH 9, 1988*
Amount:	*$ 12,000.00*
Financial Transaction ID:	*0004*
Transaction Type:	*COMMITMENT*
Transaction Date:	*MARCH 23, 1988*
Amount:	*$ 5,000.00*
Financial Transaction ID:	*0009*
Transaction Type:	*DECOMMITMENT*
Transaction Date:	*AUGUST 10, 1988*

Amount:	*$ 6,124.00*
Financial Transaction ID:	*0008*
Transaction Type:	*DECOMMITMENT*
Transaction Date:	*MARCH 23, 1988*
Amount:	*$ 5,000.00*
Financial Transaction ID:	*0006*
Transaction Type:	*DECOMMITMENT*
Transaction Date:	*AUGUST 4, 1988*
Amount:	*$ 12,000.00*
Financial Transaction ID:	*0007*
Transaction Type:	*DECOMMITMENT*
Transaction Date:	*FEBRUARY 3, 1988*
Amount:	*$ 85,000.00*
Operable Unit ID:	*00*
Operable Unit Name:	*SITEWIDE*
Fields Not Reported by the Source Agency for this Site:	*Action Qualifier(2), Scheduled Start Date(3), Scheduled Completion Date(3), Action(1), Actual Start Date(1), Description(1), (1), (1), (1)*

VISTA Address*:	**1X AMERICAN INK PRODUCTS INC** **630 E. 10TH ST** **OAKLAND, CA 94606**	VISTA ID#:	930163	Map ID **23**
		Distance/Direction:	0.50 MI / NW	
		Plotted as:	Point	
STATE LUST - State Leaking Underground Storage Tank / SRC# 164		EPA/Agency ID:	N/A	

Agency Address:	*AMERICAN INK PRODUCTS* *630 10TH ST E* *OAKLAND, CA 94606*
Site Name:	*AMERICAN INK PRODUCTS*
Site Location:	*630 10TH ST E* *OAKLAND CA 94606-*
Site County:	*ALAMEDA*
Water Quality Control Board Region:	*02*
Case ID #:	*01-0076*
Local Case ID #:	*01-1223*
Media Affected	*SOIL ONLY*
Lead Agency:	*LOCAL AGENCY LEAD*
Remediation Status	*CASE CLOSED*
Substance Leaked:	*GASOLINE*
Abatement Method	*ED*
	CODE LOOKUP. CD-CAP SITE/CB-CONTAINMENT BARRIER/ED-EXCAVATE AND DISPOSE/ET-EXCAVATEAND TREAT/FP-REMOVE FREE PRODUCT/GT-PUMP AND TREATGW/RS-REPLACE SUPPLY/HU-TREATMENTAT HOOKUP/VS-VENT SOIL/VE-VACUUM EXTRACT/AS-AIR SPARGING/IT-ENHANCED BIODEGRADATION/OT-OTHER/NT-NO ACTION TAKEN/UK-UNKNOWN/NA-NO ACTION REQUIRED
Enforcement Type	*13267 LETTERS FOR ENFORCEMENT*
Funding By:	*FEDERAL FUNDS*
How was Leak Discovered	*TANK CLOSURE*
How was Leak Stopped	*CLOSE TANK*
MTBE Tested	*SITE NOT TESTED FOR MTBE*

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Program Type	*LOCAL OVERSIGHT PROGRAM UST*
Repsonsible Party:	*BLANK RP*
Cause of Leak	*STRUCTRE FAILURE*
Source of Leak	*TANK*
Longitude:	*37.792815*
Latitude:	*-122.2553252*
Summary:	*ARCHIVED 6/6/96 CONTROL NO 120-073 SRC 0904723*
Date Leak was Confirmed	*7/13/92*
Date Case was Closed	*2/15/95*
Date Leak was Discovered:	*11/7/88*
Date of Enforcement Action	*8/6/93*
Reported Date:	*11/7/88*
Date Leak was Stopped:	*11/7/88*
Fields Not Reported by the Source Agency for this Site:	*Cross Street(1), Remediation Status(1), How was Leak Discovered(1), MTBE Tested(1), Program Type(1), Substance Quantity Leaked (G)(1), Cause of Leak(1), Date Preliminary Site Assessment Workpla(1), Date Preliminary Site Assessment Began(1), Date Pollution Characterization Began(1), Date Remediation Plan Submitted(1), Date Remedial Action Underway(1), Date Post Remedial Action Monitoring Beg(1), MTBE Date(1)*

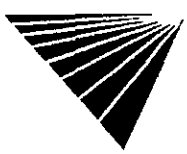
STATE LUST - State Leaking Underground Storage Tank / SRC# 853	Agency ID:	01-0076

Agency Address:	*AMERICAN INK PRODUCTS* *630 10TH ST E* *OAKLAND, CA 0*
Case ID #:	*01-0076*
Site Name:	*AMERICAN INK PRODUCTS*
Site Address:	*630 10TH ST E* *OAKLAND, CA*
Site County:	*ALAMEDA*
Date Entered:	*5/9/91*
Maximum Soil	*3000*
Substance Leaked:	*NOT REPORTED*
Media Affected:	*NOT REPORTED*
Discovery Date:	*NOT REPORTED*
Site Status:	*CASE CLOSED; REGIONAL BOARD(AND LOCAL AGENCY WHERE APPROPRIATE) ARE IN CONCURRENCETHAT NO FURTHER ACTION IS NECESSARY AT THE SITE.*
Fields Not Reported by the Source Agency for this Site:	*Maximum Groundwater(1), Current Benzene(1), MTBE Qualifier(1), Maximum MTBE(1), Current MTBE(1)*

SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)

No Records Found

UNMAPPED SITES
No Records Found



SITE ASSESSMENT REPORT

DESCRIPTION OF DATABASES SEARCHED

A) DATABASES SEARCHED TO 1 MILE

NPL
SRC#: 19

VISTA conducts a database search to identify all sites within 1 mile of your property
The agency release date for National Priorities List was July, 2001.

The NPL Report is the US EPA's registry of the nation's worst uncontrolled or abandoned hazardous waste sites. NPL sites are targeted for possible long-term remedial action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980.

SPL
SRC#: 113

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for CalSites Database was October, 2000.

This database is provided by the Cal. Environmental Protection Agency, Dept. of Toxic Substances Control. The agency may be contacted at: 916-323-3400.

CORRACTS
SRC#: 14

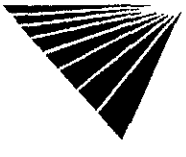
VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for RCRIS Corrective Action Sites was June, 2000.

The CORRACTS database contains information concerning RCRA facilities that have conducted, or are currently conducting a corrective action. A Corrective Action Order is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may also be imposed as a requirement of receiving and maintaining a TSDF permit.

RCRIS-TSDC
SRC#: 556

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for RCRIS TSDs Subject to Corrective Action was June, 2000.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDCs are treatment, storage and/or disposal facilities that are subject to corrective action under RCRA.



B) DATABASES SEARCHED TO 1/2 MILE

CERCLIS
SRC#: 17

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Comprehensive Environmental Response, Compensation and Liability Information Sys was July, 2001.

The CERCLIS database is a comprehensive listing of known or suspected uncontrolled or abandoned hazardous waste sites. These sites have either been investigated, or are currently under investigation by the U.S. EPA for the release, or threatened release of hazardous substances. Once a site is placed in CERCLIS, it may be subjected to several levels of review and evaluation, and ultimately placed on the National Priorities List (NPL).

NFRAP
SRC#: 18

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for No Further Remedial Action Planned was July, 2001.

The No Further Remedial Action Planned Report (NFRAP), also known as the CERCLIS Archive, contains information pertaining to sites which have been removed from the U.S. EPA's CERCLIS database. NFRAP sites may be sites where, following an initial investigation, either no contamination was found, contamination was removed quickly without need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund action or NPL consideration.

SCL
SRC#: 112

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for CalSites Database was October, 2000.

This database is provided by the Department of Toxic Substances Control. Two- thirds of these sites have been classified, based on available information, as needing "No Further Action" (NFA) by the Department of Toxic Substances Control. The remaining sites are in various stages of review and remediation to determine if a problem exists at the site. Several hundred sites have been remediated and are considered certified. Some of these sites may be in long term operation and maintenance.

RCRIS-TSD
SRC#: 12

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for RCRIS Treatment, Storage and Disposal Facilities was June, 2000.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

SWLF
SRC#: 23

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for USGS Solid Waste Landfills was December, 1991.

This database is provided by the United States Geological Survey. The agency may be contacted at: 703-648-5613.

SWLF
SRC#: 163

VISTA conducts a database search to identify all sites within 1/2 mile of your property. **The agency release date for Solid Waste Inventory System was June, 2001.**

This database is provided by the Integrated Waste Management Board. The agency may be contacted at: 916-255-4021.

LUST-REG
SRC#: 108

VISTA conducts a database search to identify all sites within 1/2 mile of your property. **The agency release date for Region 6 Leaking Underground Storage Tanks was July, 2001.**

This database is provided by the Lahontan Region Six South Lake Tahoe. The agency may be contacted at: 530-542-5400.

LUST-REG
SRC#: 145

VISTA conducts a database search to identify all sites within 1/2 mile of your property. **The agency release date for Region 5 Leaking Underground Storage Tanks was July, 2001.**

This database is provided by the Regional Water Quality Control Board, Region #5. The agency may be contacted at: 916-255-3125.

LUST
SRC#: 164

VISTA conducts a database search to identify all sites within 1/2 mile of your property. **The agency release date for Leaking Underground Storage Tank Information System was August, 2001.**

This database is provided by the California Environmental Protection Agency. The agency may be contacted at: 916-341-5740.

LUST-REG
SRC#: 853

VISTA conducts a database search to identify all sites within 1/2 mile of your property. **The agency release date for Region 2 Fuel Leak List was July, 2001.**

This database is provided by the Regional Water Quality Control Board, Region #2. The agency may be contacted at: 510-286-1269.

C) DATABASES SEARCHED TO 1/4 MILE

UST
SRC#: 45

VISTA conducts a database search to identify all sites within 1/4 mile of your property. **The agency release date for Underground Storage Tanks was January, 1994.**

This historical database is provided by the State Water Resources Control Board, Office of Underground Storage Tanks. Please refer to the local level UST list for more current information. Be advised that some states do not require registration of heating oil tanks, especially those used for residential purposes.

AST
SRC#: 60

VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for Aboveground Storage Tanks was January, 2001.

This database is provided by the State Water Resources Control Board. The agency may be contacted at: 916-227-4364.

D) DATABASES SEARCHED TO 1/8 MILE

ERNS
SRC#: 8

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for Emergency Response Notification System was December, 2000.

ERNS is a national computer database system that is used to store information on the sudden and/or accidental release of hazardous substances, including petroleum, into the environment. The ERNS reporting system contains preliminary information on specific releases, including the spill location, the substance released, and the responsible party.

RCRA-LQG
SRC#: 16

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for RCRIS Large Quantity Generators was June, 2000.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

RCRIS-SQG
SRC#: 15

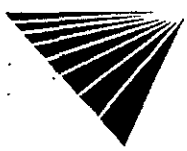
VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for RCRIS Small Quantity Generators was June, 2000.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small Quantity Generators are facilities which generate less than 1000 kg./month of non-acutely hazardous waste.

RCRIS-NOTI
SRC#: 1298

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for RCRIS Notifiers was June, 2000.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal.The RCRIS Notifiers contains information on formerly regulated RCRA sites with more complete historical information.



SPILLS
SRC#: 106

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for Region 2 SLIC Site List was July, 2001.

This database is provided by the Regional Water Quality Control Board, Region #2. The agency may be contacted at: 510-286-1269.

SPILLS
SRC#: 147

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for Region 5 SLIC/DOD/DOE Site List was July, 2001.

This database is provided by the Regional Water Quality Control Board, Region #5. The agency may be contacted at: 916-255-3000.

End of Report

Historical Research Documentation

The following documents were requested and/or reviewed during the historical research conducted as part of this assessment:

- Historical aerial photographs dated 1930, 1950, 1959, 1969, 1979, 1989, and 1998 were reviewed at Pacific Aerial Surveys in Oakland, California. Copies of the 1950 and newer historical aerial photographs are included in this appendix.

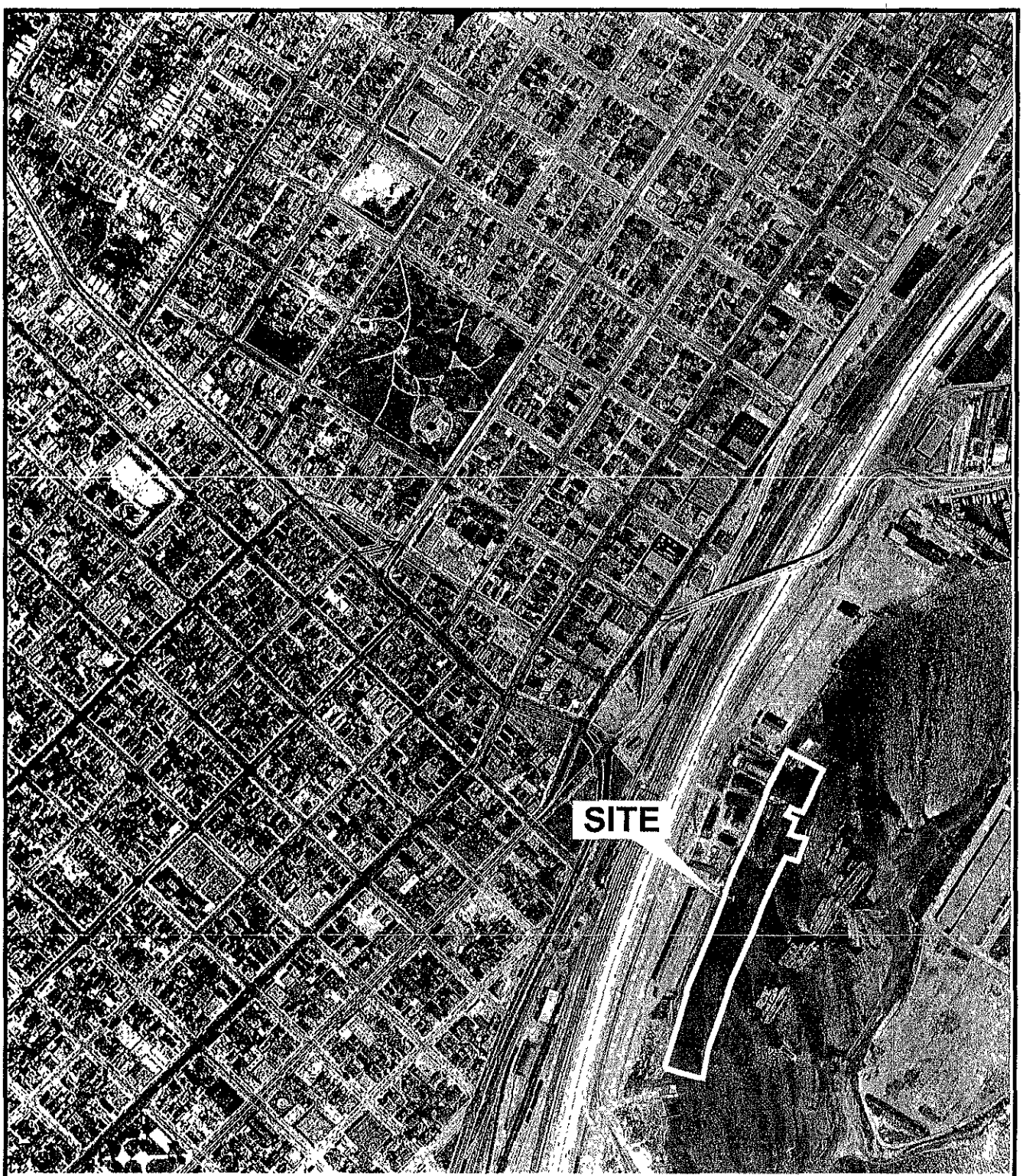
- United States Geological Survey (USGS) 7.5-minute topographical maps for the Oakland East and Oakland West, California dated 1993 and historical topographic maps of the same two quadrangles dated 1949, 1959, 1968, 1973, and 1980 provided by Environmental Data Resources, Inc. (EDR) were reviewed. Copies of the topographical maps are included in this appendix.

- Historical fire insurance maps dated 1903, 1911, 1950, 1952, 1953, 1957, 1959, 1960, 1964, 1965, 1967, and 1969 provided by EDR were reviewed. Copies of the historical fire insurance maps are included in this appendix.

- City directories dated 1972, 1976, 1979, 1985, 1990, and 1997 provided by Fidelity National Information Solutions (FNIS) were reviewed. Copies of pages from the historical city directories are included in this appendix.

- Permit information on file at the City of Oakland Building Department was reviewed. A copy of drawing BB-3132, which was on file at the OBD and shows the former layout of the 1275 Embarcadero property, is included in this appendix.

Historical Aerial Photos of the Site



01196A-1950.cdr

Source: Pacific Aerial Surveys

IRIS ENVIRONMENTAL
1615 Broadway, Suite 1003, Oakland, California 94612

1275-1441 Embarcadero, Port of Oakland
Historical Aerial Photo, 1950
Oakland, California

Figure
—

Drafter: MS | Date: 3/11/02 | Contract Number: 01-196A | Approved: | Revised:

01196A-1959.cdr

Source: Pacific Aerial Surveys

IRIS ENVIRONMENTAL
1615 Broadway, Suite 1003, Oakland, California 94612

1275-1441 Embarcadero, Port of Oakland
Historical Aerial Photo, 1959
Oakland, California

Figure
—

Drafter: MS | Date: 3/11/02 | Contract Number: 01-196A | Approved: | Revised:

01196A-1969.cdr

Source: Pacific Aerial Surveys

IRIS ENVIRONMENTAL
1615 Broadway, Suite 1003, Oakland, California 94612

1275-1441 Embarcadero, Port of Oakland
Historical Aerial Photo, 1969
Oakland, California

Figure —

Drafter: MS | Date: 3/11/02 | Contract Number: 01-196A | Approved: | Revised:

01196A-1979.cdr

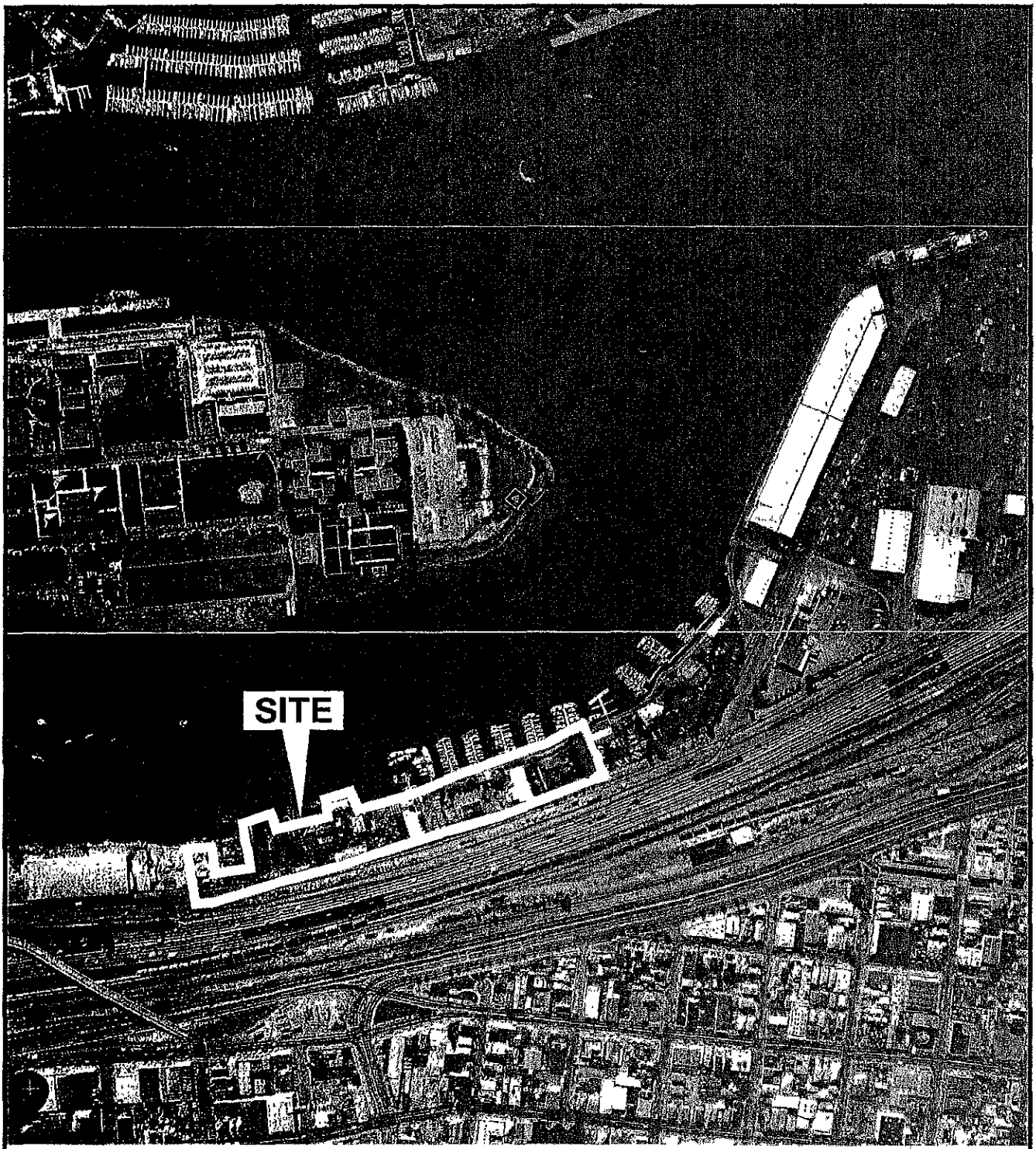
Source: Pacific Aerial Surveys.

IRIS ENVIRONMENTAL
1615 Broadway, Suite 1003, Oakland, California 94612

1275-1441 Embarcadero, Port of Oakland
Historical Aerial Photo, 1979
Oakland, California

Figure
—

Drafter: MS | Date: 3/11/02 | Contract Number: 01-196A | Approved: | Revised:



Source: Pacific Aerial Surveys

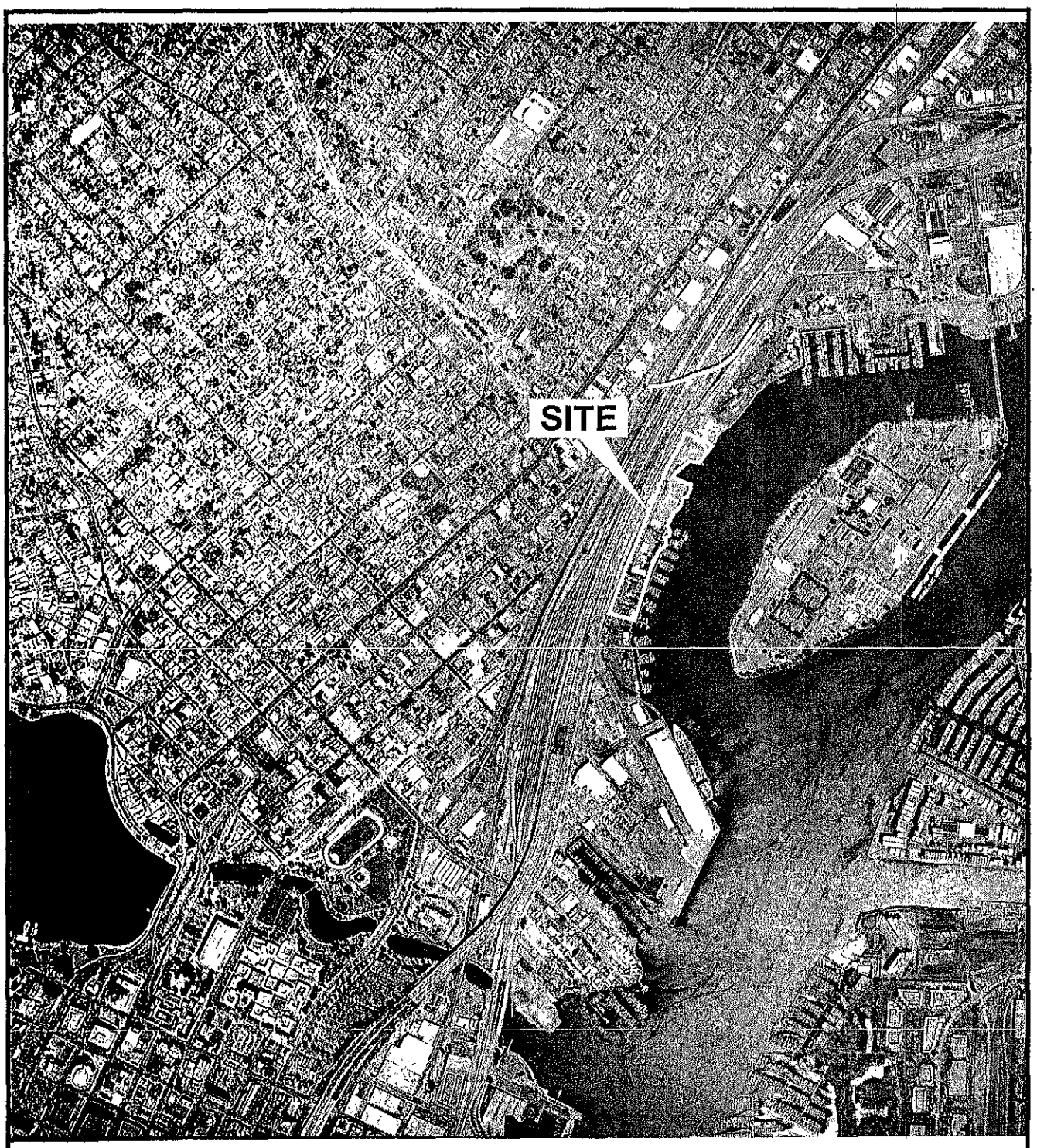
011196A-1989.cdr

IRIS ENVIRONMENTAL
1615 Broadway, Suite 1003, Oakland, California 94612

1275-1441 Embarcadero, Port of Oakland
Historical Aerial Photo, 1989
Oakland, California

Figure
—

Drafter: MS | Date: 3/11/02 | Contract Number: 01-196A | Approved: | Revised:



01196A-1998.cdr

Source. Pacific Aerial Surveys.

IRIS ENVIRONMENTAL
1615 Broadway, Suite 1003, Oakland, California 94612

1275-1441 Embarcadero, Port of Oakland
Historical Aerial Photo, 1998
Oakland, California

Figure
—

Drafter: MS | Date: 3/11/02 | Contract Number: 01-196A | Approved: | Revised:

Historical Topographical Maps of the Site

The EDR-Historical Topographic Map Report

Port of Oakland - Embarcadero
1275-1441 Embarcadero
Oakland, CA 94606

November 1, 2001

Inquiry Number: 697904-2

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.
Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Report is designed to assist professionals in evaluating potential liability on a target property, and its surrounding area, resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources. Reasonably ascertainable is defined as information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.2, the following *standard historical sources* may be used: aerial photographs, city directories, fire insurance maps, topographic maps, property tax files, land title records (although these cannot be the sole historical source consulted), building department records, or zoning/and use records. ASTM E 1527-00 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* ASTM E 1527-00, Section 7.3.2 page 11.)

EDR's Historical Topographic Map Report includes a search of available public and private color historical topographic map collections.

Topographic Maps

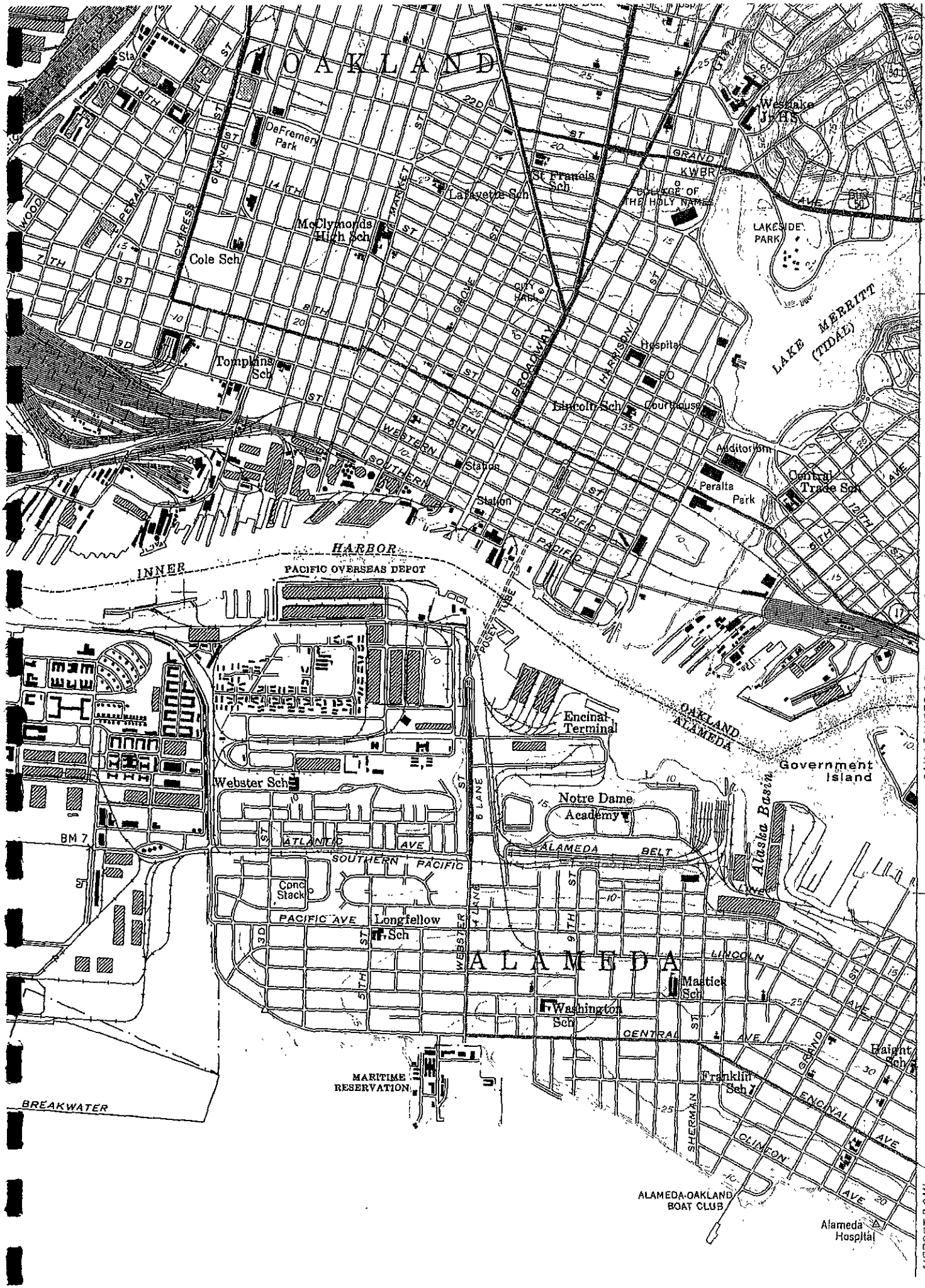
A topographic map (topo) is a color coded line-and-symbol representation of natural and selected artificial features plotted to a scale. Topos show the shape, elevation, and development of the terrain in precise detail by using contour lines and color coded symbols. Many features are shown by lines that may be straight, curved, solid, dashed, dotted, or in any combination. The colors of the lines usually indicate similar classes of information. For example, topographic contours (brown); lakes, streams, irrigation ditches, etc. (blue); land grids and important roads (red); secondary roads and trails, railroads, boundaries, etc. (black); and features that have been updated using aerial photography, but not field verified, such as disturbed land areas (e.g., gravel pits) and newly developed water bodies (purple).

For more than a century, the USGS has been creating and revising topographic maps for the entire country at a variety of scales. There are about 60,000 U.S. Geological Survey (USGS) produced topo maps covering the United States. Each map covers a specific quadrangle (quad) defined as a four-sided area bounded by latitude and longitude. Historical topographic maps are a valuable historical resource for documenting the prior use of a property and its surrounding area, and due to their frequent availability can be particularly helpful when other standard historical sources (such as city directories, fire insurance maps, or aerial photographs) are not reasonably ascertainable.

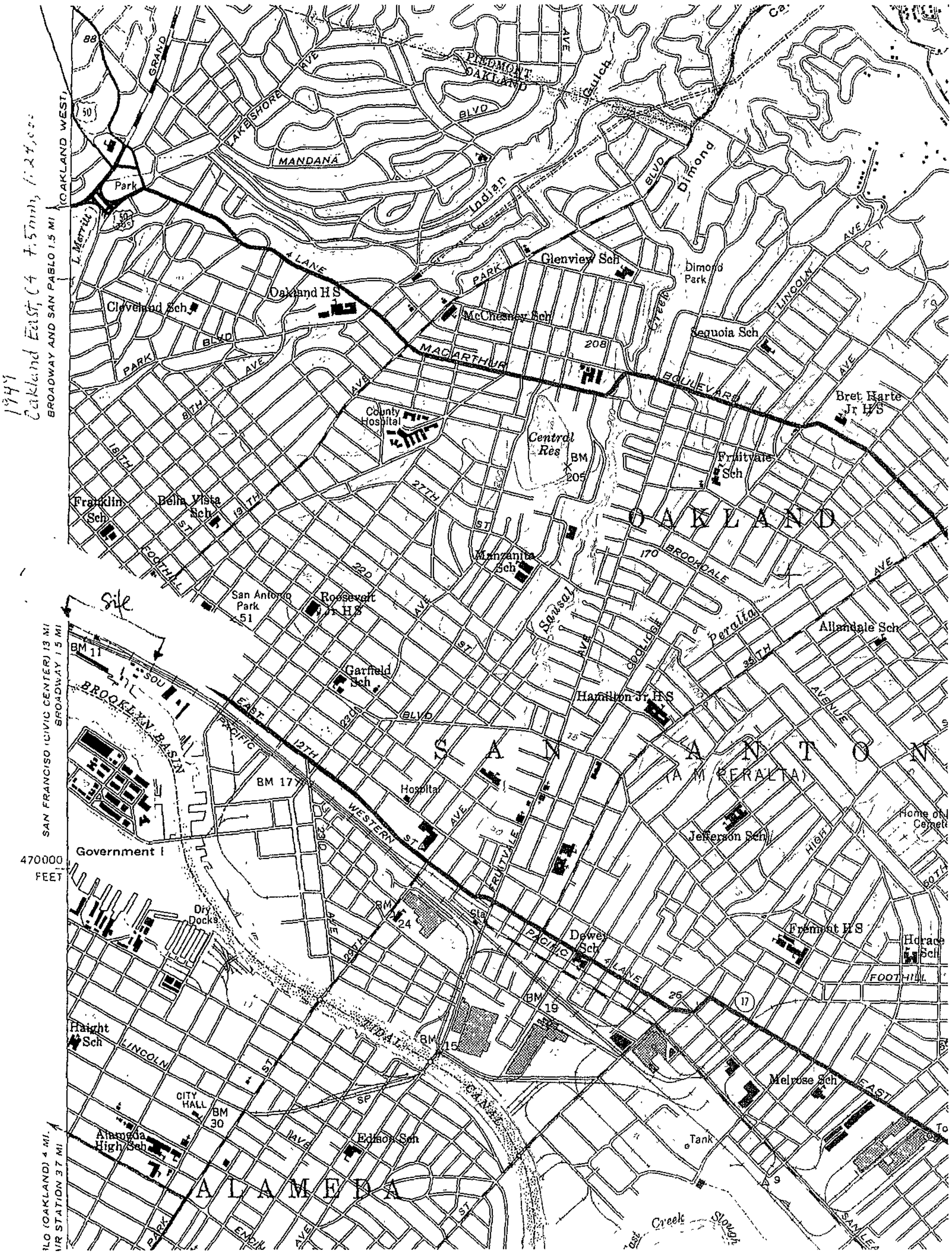
Quadrangle Relation Chart

Inquiry # 697904-2

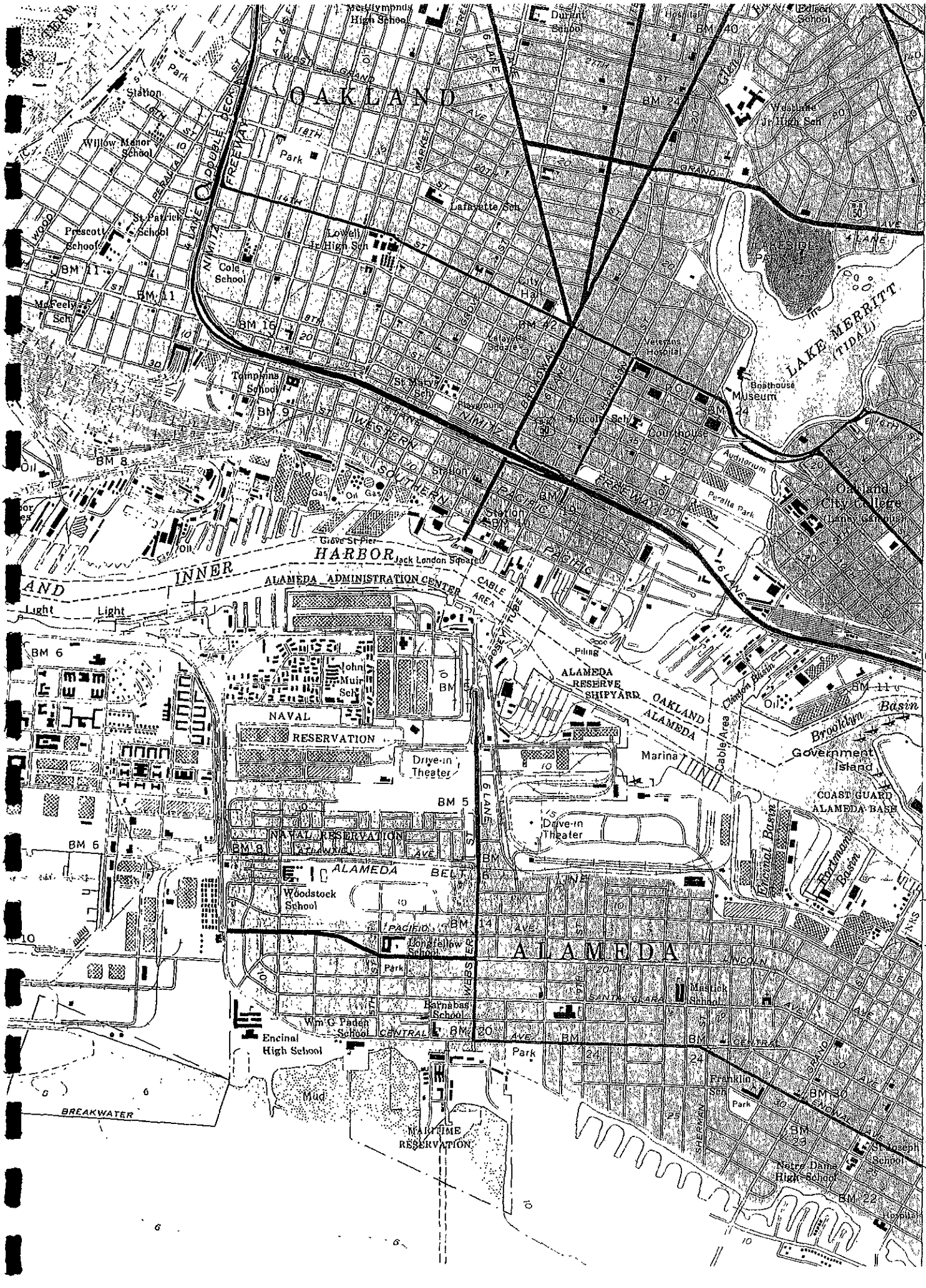
Adjoining	Target
Oakland West, CA	Oakland East, CA



1949
Oakland West, CA 7.5min, 1:24,000

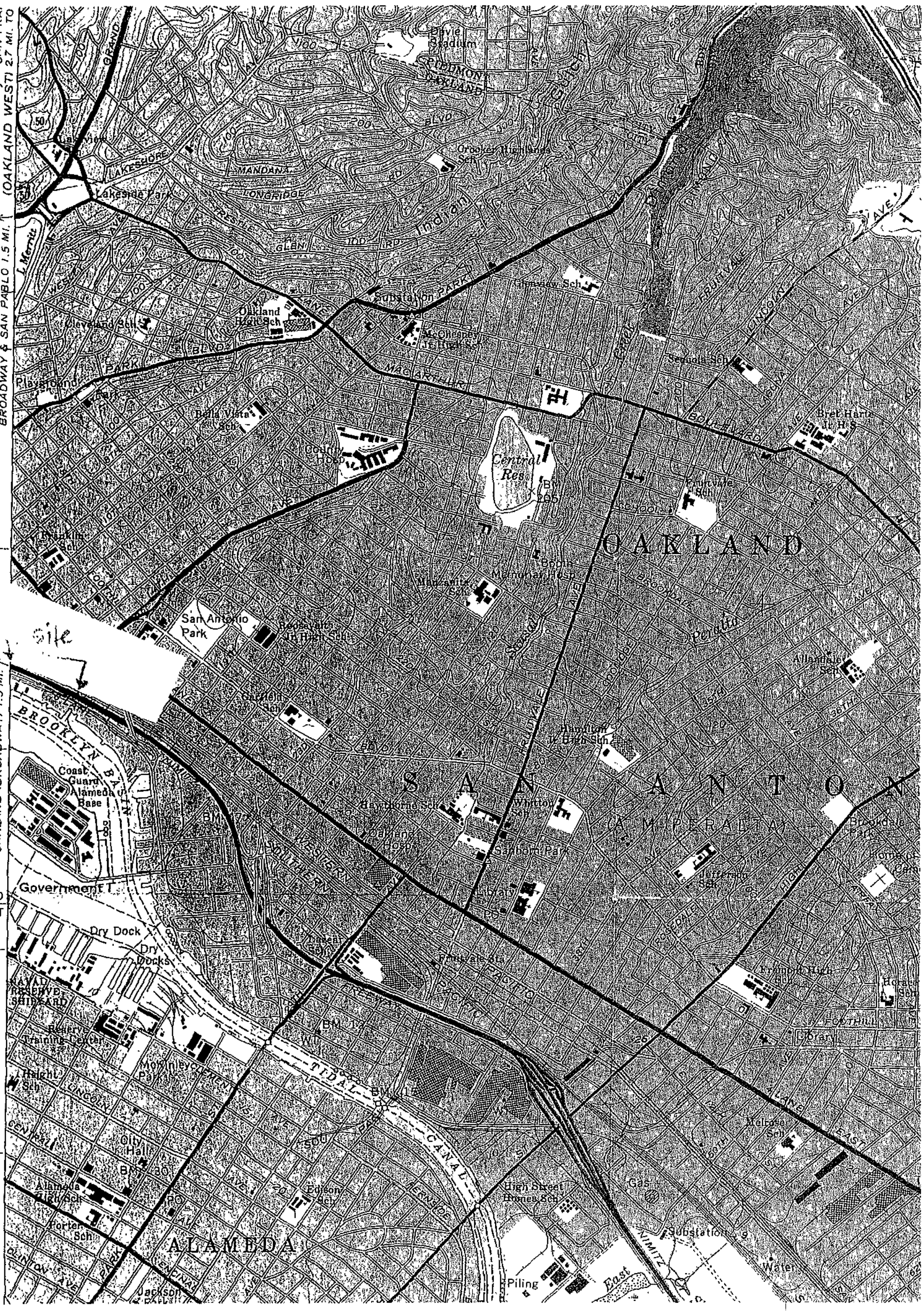


(OAKLAND WEST)
BROADWAY AND SAN PABLO 1.5 MI
SAN FRANCISCO (CIVIC CENTER) 13 MI
BROADWAY 1.5 MI
470000
FEET
PIEDMONT
OAKLAND
Park
Oakland H S
Cleveland Sch
Glenview Sch
Dimond Park
McChesney Sch
Sequoia Sch
County Hospital
Central Res
Bret Harte Jr H S
Fruitvale Sch
Franklin Sch
Bella Vista Sch
OAKLAND
Manzanita Sch
San Antonio Park
Roosevelt Jr H S
Allendale Sch
Garfield Sch
Hamilton Jr H S
BROOKLYN BASIN
SAN ANTONIO
(A M PERALTA)
Hospital
Jefferson Sch
Government I
Dry Docks
Dewey Sch
Fremont H S
Haight Sch
TIDAL CANAL
Melrose Sch
CITY HALL
Alameda High Sch
Edison Sch
Tank
ALAMEDA
MACARTHUR BOULEVARD
EAST 12TH ST
FOOTHILL
Site

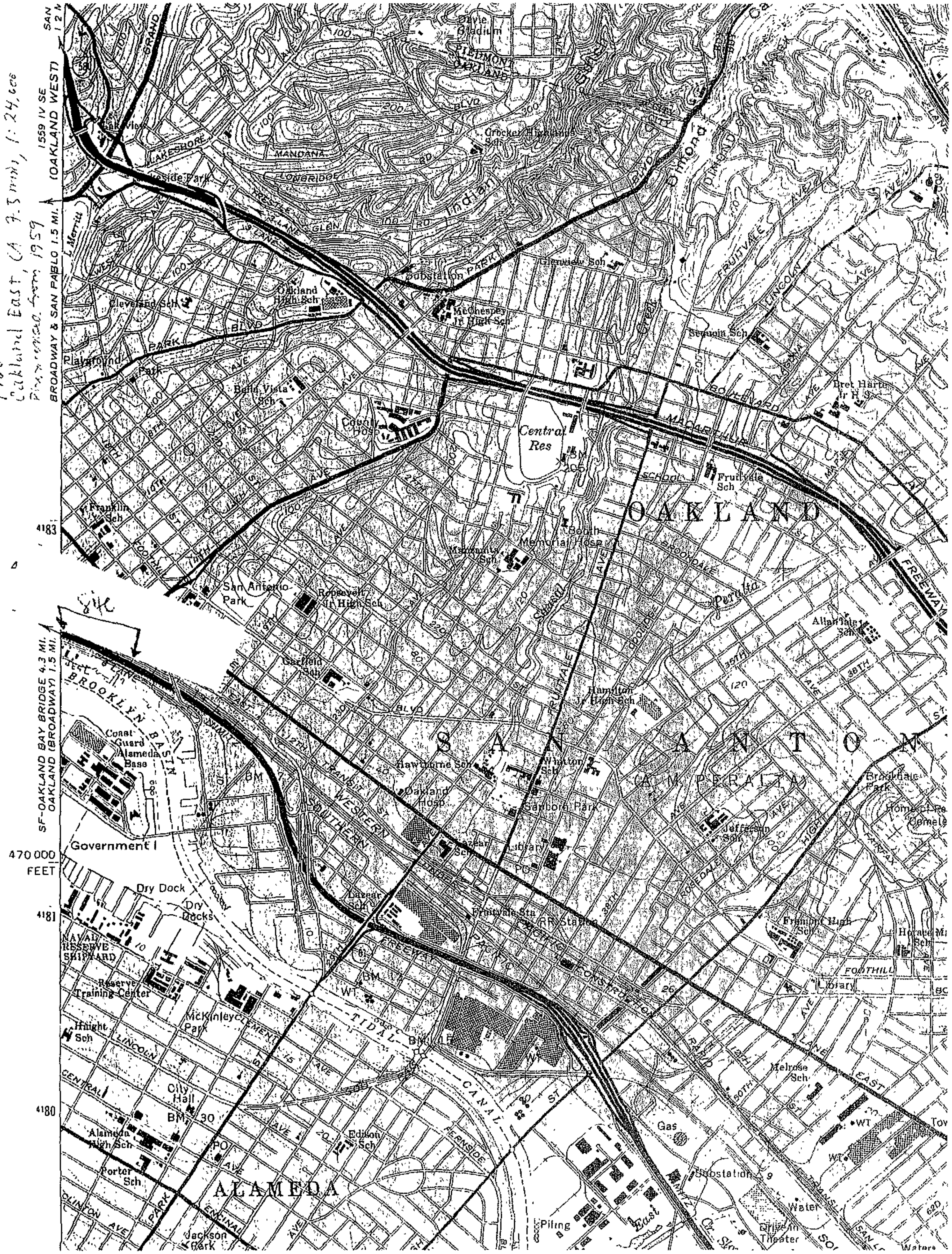


1950 Oakland West, CA 7.5 min, 1:24,000

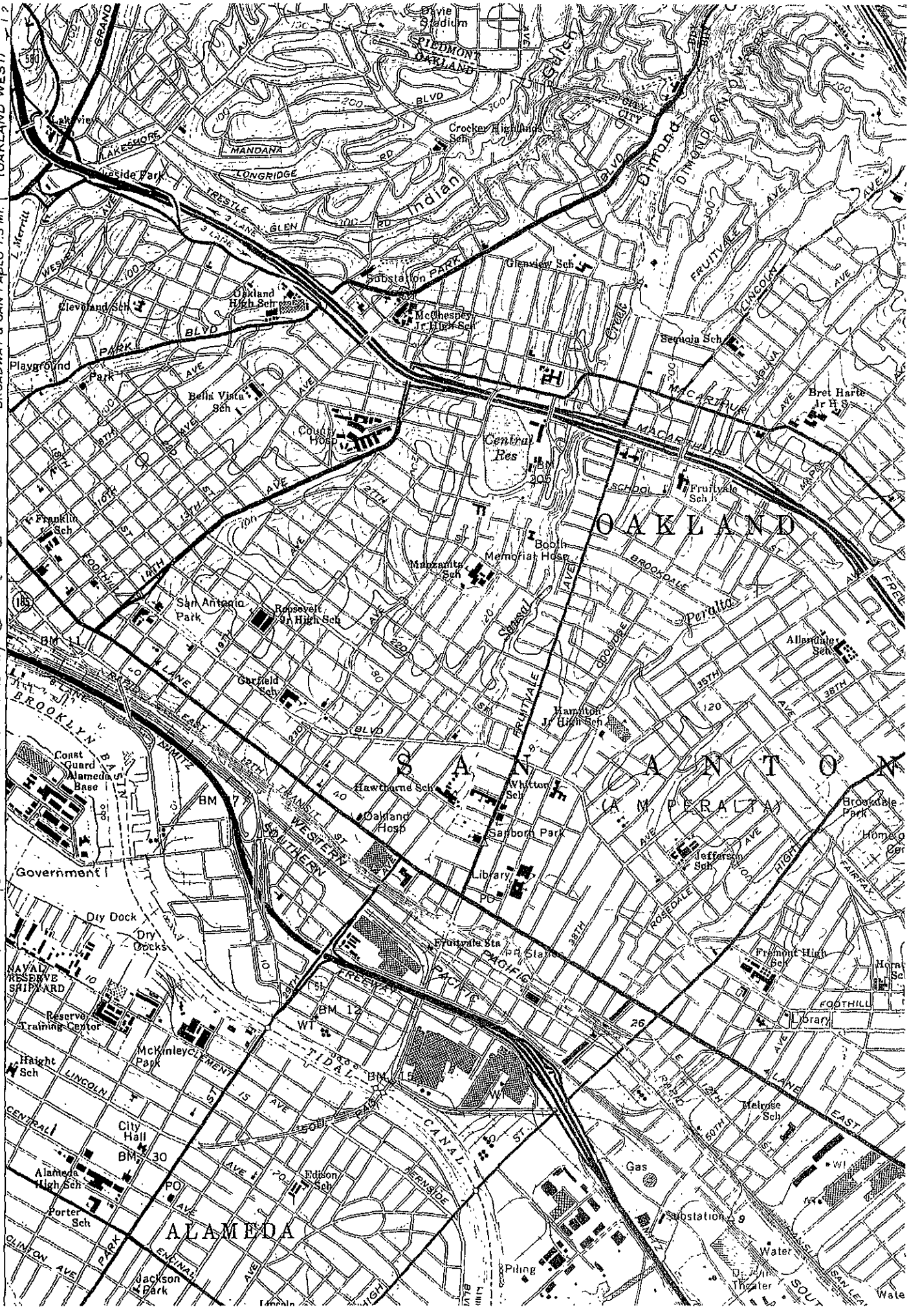
1959
Oakland East, CA 7.5 min, 1 24,000

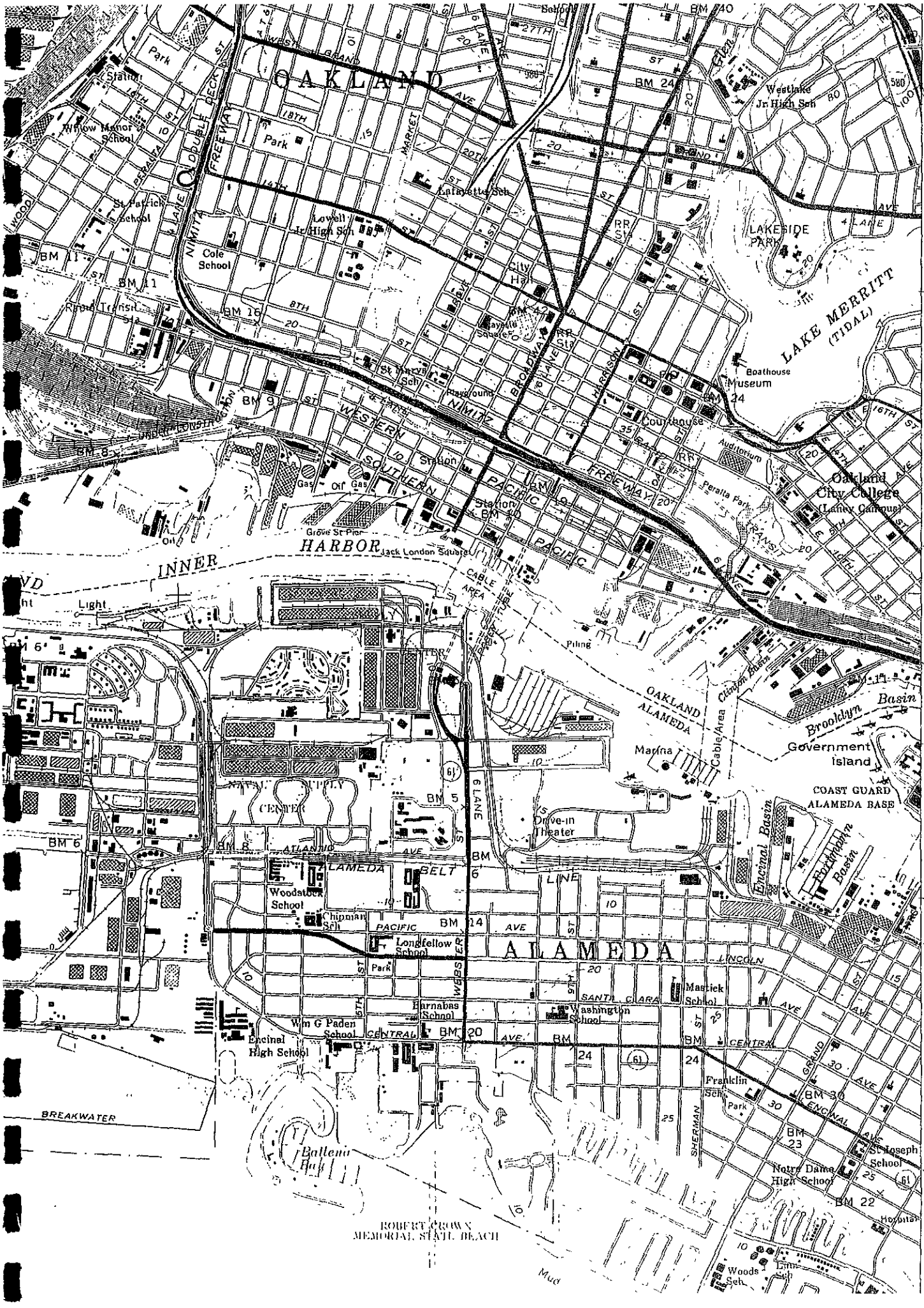



OAKLAND
ALAMEDA
LAKE MERRITT (TIDAL)
LAKESIDE PARK
HARBOR
INNER
NAVAL RESERVATION
ALAMEDA RESERVE SHIPYARD
ALAMEDA ADMINISTRATION CENTER
COAST GUARD ALAMEDA BASE
Brooklyn Basin
Government Island
Marina
Encinal Basin
Fortmann Basin
Drive-in Theater
Oakland City College
Boathouse Museum
Auditorium
Peralta Park
Lafayette Square
City Hall
Lowell Jr High Sch
Cole School
Prescott School
St Patrick School
Willow Manor School
Westlake Jr High Sch
Lafayette Sch
St Marys Sch
Lincoln Sch
Franklin Sch
Longfellow School
Woodstock School
Chipman Sch
Wm G Paden School
Encinal High School
Washington School
Mastick School
Woods Sch
Notre Dame High School
Grove St Pier
Jack London Square
Station
Gas
Oil
Light
Piling
Cable Area
Mud
BREAKWATER
Ballena Bay
MARITIME RESERVATION
ALAMEDA MEMORIAL STATE BEACH
Radar Reflector
NIMITZ FREEWAY
SOUTHERN PACIFIC
ATLANTIC AVE
PACIFIC AVE
CENTRAL AVE
SANTA CLARA AVE
LINCOLN AVE
GRAND AVE
WEBSTER ST
HARRISON ST
JACKSON ST
MADISON ST
OAK ST
MARKET ST
BROADWAY
ALAMEDA BELT LINE
6 LANES
BM 1
BM 2
BM 4
BM 5
BM 6
BM 8
BM 9
BM 10
BM 11
BM 12
BM 14
BM 15
BM 16
BM 17
BM 20
BM 22
BM 24
BM 28
BM 30
4.8 MI TO HAYWARD
(OAKLAND EAST) 1559 I SW
1.5 MI TO HIGH ST. SAN JOSE 40 MI.
OAKLAND AIRPORT 3 MI. SAN LEANDRO (14TH ST) 7.3 MI
4184
4183
4181
47'30"
17
1968
Oakland West, CA 7.5 min, 1:24,000
photorevised from 1959


1966
Oakland East, CA 7.5 min, 1:24,000
Photorevised from 1959
SAN 1.2 MI.
1559 IV SE (OAKLAND WEST)
BROADWAY & SAN PABLO 1.5 MI.
SF-OAKLAND BAY BRIDGE 4.3 MI.
OAKLAND (BROADWAY) 1.5 MI.
Site
4183
470 000 FEET
4181
4180
OAKLAND
SAN ANTONIO
(A. M. PERALTA)
ALAMEDA
Oakland High Sch
Cleveland Sch
McChesney Jr High Sch
Bella Vista Sch
County Hosp
Central Res
Franklin Sch
Manzanita Sch
Booth Memorial Hosp
San Antonio Park
Roosevelt Jr High Sch
Garfield Sch
Hamilton Jr High Sch
Hawthorne Sch
Whitton Sch
Oakland Hosp
Sanborn Park
Lazear Sch
Library
Fruitvale Sch
Fruitvale Sta
Sequoia Sch
Glenview Sch
Crocker Highlands Sch
Bret Harte Jr H S
Allendale Sch
Jefferson Sch
Fremont High Sch
Melrose Sch
Brookdale Park
Coast Guard Alameda Base
Government I
Dry Dock
Dry Docks
NAVAL RESERVE SHIPYARD
Reserve Training Center
McKinley Park
Haight Sch
City Hall
Alameda High Sch
Porter Sch
Edison Sch
Jackson Park
Gas
Substation
Water
Drive-in Theater
Piling
BROOKLYN BASIN
TIDAL CANAL
MACARTHUR BOULEVARD
FREEWAY
FOOTHILL
PARK BLVD
LAKESHORE
MANDANA
LOVERIDGE
TRESTLE GLEN
PIEDMONT
Dimond
Indian
Peralta
Sausal
FRUITVALE
LINCOLN
SCHOOL
BROOKDALE
HIGH
EAST
CENTRAL
LINCOLN
CLINTON AVE
ENCINAL
FERNSIDE
SOUTHERN PACIFIC
WESTERN
Playground
Park
Substation

1973
Oakland West, Ca 7.5 min, 1:24000
Photorevised from 1959


1953
Oakland East, Ca 7.5 min., 1:24,000
Photorevised from 1953
1559 IV SE (OAKLAND WEST)
BROADWAY & SAN PABLO 1.5 MI.
SF-OAKLAND BAY BRIDGE 4.3 MI.
OAKLAND (BROADWAY) 1.5 MI.
47'30"
470 000 FEET
4183
4181
4180
OAKLAND
ALAMEDA
SAN ANTONIO
PIEDMONT
Davie Stadium
Lakeview
Lakeside Park
Crocker Highlands Sch
Glenview Sch
Cleveland Sch
Oakland High Sch
McChesney Jr High Sch
Sequoia Sch
Fruitvale Sch
Bret Harte Jr H S
Bella Vista Sch
Court House
Central Res
Franklin Sch
Booth Memorial Hosp
Manzanita Sch
San Antonio Park
Roosevelt Jr High Sch
Garfield Sch
Hamilton Jr High Sch
Allendale Sch
Brookdale Park
Coast Guard Alameda Base
Hawthorne Sch
Whittier Sch
Oakland Hosp
Sanborn Park
Jefferson Sch
Library
PO
Government I
Dry Dock
Dry Docks
NAVAL RESERVE SHIPYARD
Fruitvale Sta
Fremont High Sch
Reserve Training Center
McKinley Park
Haight Sch
City Hall
Alameda High Sch
Porter Sch
Edison Sch
Melrose Sch
Gas
Substation
Water
Piling
Jackson Park
Theater
Lincoln
BM 11
BM 12
BM 15
BM 17
BM 30
WT
TIDAL CANAL
SOUTH SHORE
BROOKLYN BASIN
SOUTHERN PACIFIC
TRANSIT
WESTERN PACIFIC
SAN LEANDRO
GRAND AVE
LAKESHORE AVE
MANDANA BLVD
LONGRIDGE RD
TRESTLE GLEN
INDIAN RD
PARK BLVD
WESLEY AVE
MACARTHUR BLVD
FRUITVALE AVE
LINCOLN AVE
LAKE AVE
BROOKDALE AVE
FOOTHILL BLVD
35TH AVE
38TH AVE
23RD AVE
19TH AVE
14TH AVE
10TH AVE
7TH AVE
5TH AVE
1ST AVE
SCHOOL ST
FREEMAN ST
ROSEDALE
FAIRFAX
HIGH
ALAMEDA
EAST
SAN LEANDRO
HERMOSA
ENCINAL
CLINTON AVE
PARK
CENTRAL
LINCOLN
SOUTH SHORE
CLEMENT
NIMITZ
EAST
SOUTHERN
PACIFIC
TRANSIT
WESTERN
FREEMAN
ROSEDALE
FAIRFAX
HIGH
ALAMEDA
EAST
SAN LEANDRO
HERMOSA
ENCINAL
CLINTON AVE
PARK
CENTRAL
LINCOLN
SOUTH SHORE
CLEMENT
NIMITZ



1980
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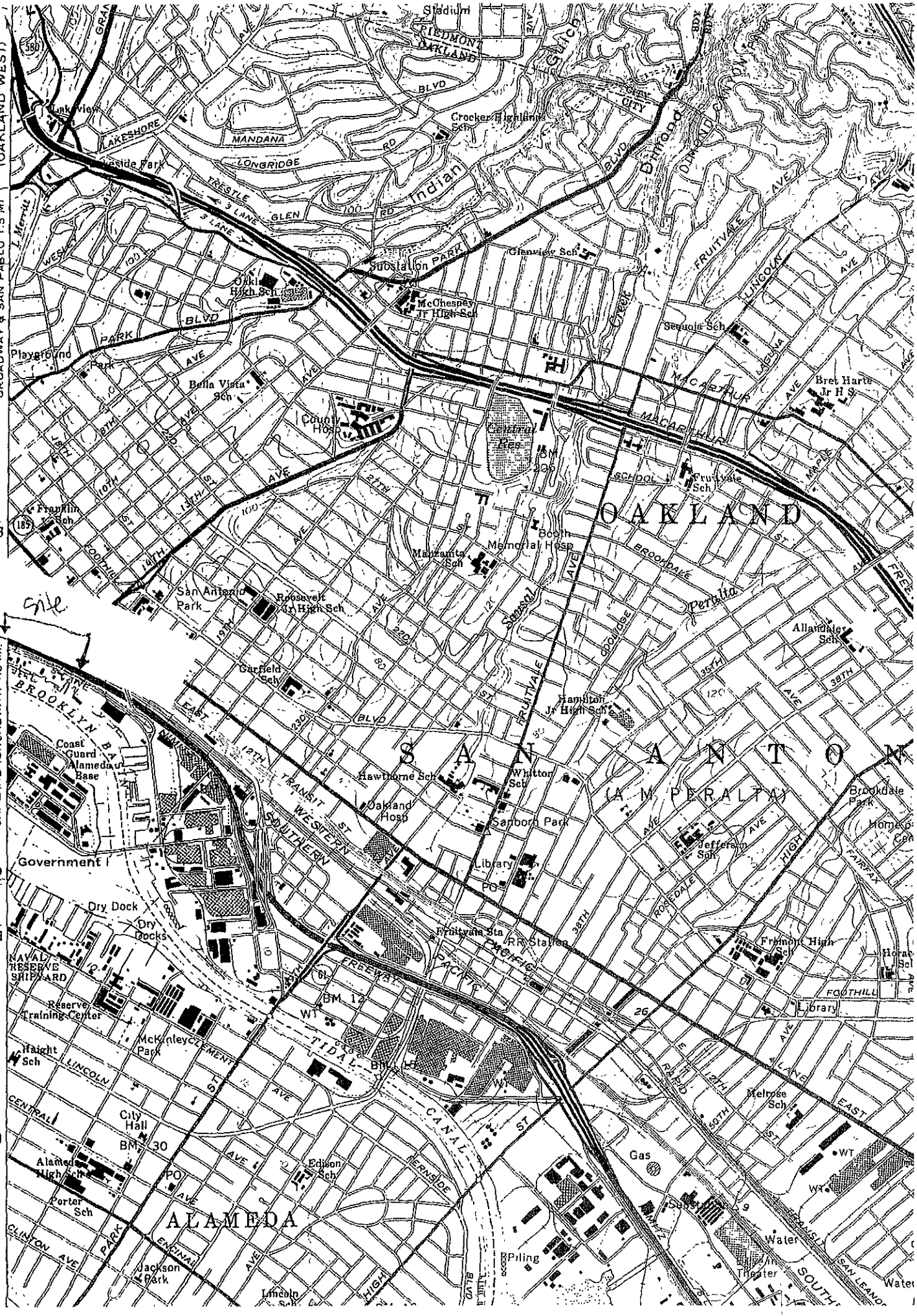
Oakland East CA 2.5 minute, 1:24,000
Photorevised from 1959
1559 IV SE
(OAKLAND WEST)
BROADWAY & SAN PABLO 1.5 MI
SF-OAKLAND BAY BRIDGE 4.3 MI.
OAKLAND (BROADWAY) 1.5 MI.
470 000 FEET
4183
4181
4180
OAKLAND
ALAMEDA
SAN LEANDRO
Stadium
PIEDMONT
OAKLAND
Lakeview
Crocker Highlands Sch
Glenview Sch
Sequoia Sch
Bret Harte Jr H S
Fruitvale Sch
Booth Memorial Hosp
Manzanita Sch
Roosevelt Jr High Sch
San Antonio Park
Garfield Sch
Hamilton Jr High Sch
Allendale Sch
Brookdale Park
Hawthorne Sch
Whittier Sch
Oakland Hosp
Sanborn Park
Jefferson Sch
Library
PO
Fruitvale Sta
RR Station
Fremont High Sch
Horace Sch
Melrose Sch
Coast Guard Alameda Base
Government
Dry Dock
Dry Docks
NAVAL RESERVE SHIPYARD
Reserve Training Center
McKinley Park
Haight Sch
City Hall
BM 30
Alameda High Sch
Porter Sch
Edison Sch
Jackson Park
Lincoln Sch
Piling
Water
Gas
Substation
Library
Theater
Franklin Sch
Bella Vista Sch
Playground
Park
Oakl High Sch
McChesney Jr High Sch
County Hosp
Central Res
BM 200
Mandana Sch
Peralta
Sausal
Indian
Glen
Trestle
Longridge
Mandana
Lakeshore
Broadway
Park
Foothill
Fruitvale
Macarthur
Brooklyn
Estuary
Transit
Southern
Pacific
Freeway
Tidal
Canal
Encinal
Central
Clinton
Lincoln
Foothill
Fairfax
Rosedale
Alameda
Grand
Lake
Bay
Water
Piling
Theater
Gas
Substation
Library
PO
BM 12
BM 30
BM 200
WT
Sale

Historical Fire Insurance Maps of the Site

Environmental Data Resources, Inc.

"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Karen Smith
Iris Environmental
1615 Broadway
Oakland, CA 94612

Order Date: 10/30/2001 **Completion Date:** 10/31/2001
Inquiry #: 697904.1S
P.O. #: NA
Site Name: Port of Oakland - Embarcadero Cove
Address: 1275-1441 Embarcadero
City/State: Oakland, CA 94606
Cross Streets:

2015150RJC 510-834-4747

Based on client-supplied information, fire insurance maps for the following years were identified

1903 - 2 - maps	1964 - 1 - map
1911 - 2 - maps	1965 - 1 - map
1950 - 1 - map	1967 - 1 - map
1952 - 1 - map	1969 - 1 - map
1953 - 1 - map	
1957 - 1 - map	
1959 - 1 - map	
1960 - 1 - map	

Total Maps: 14

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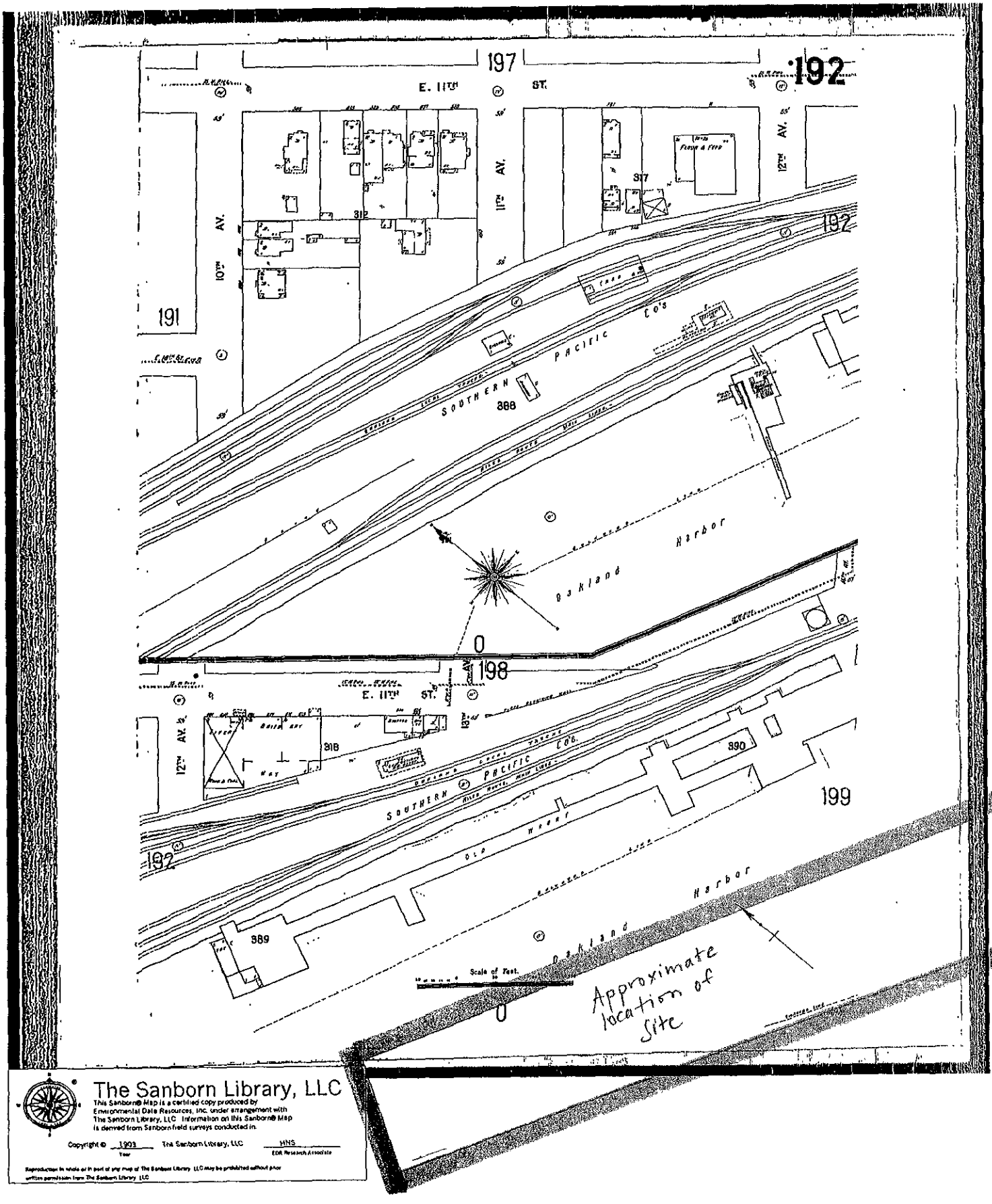
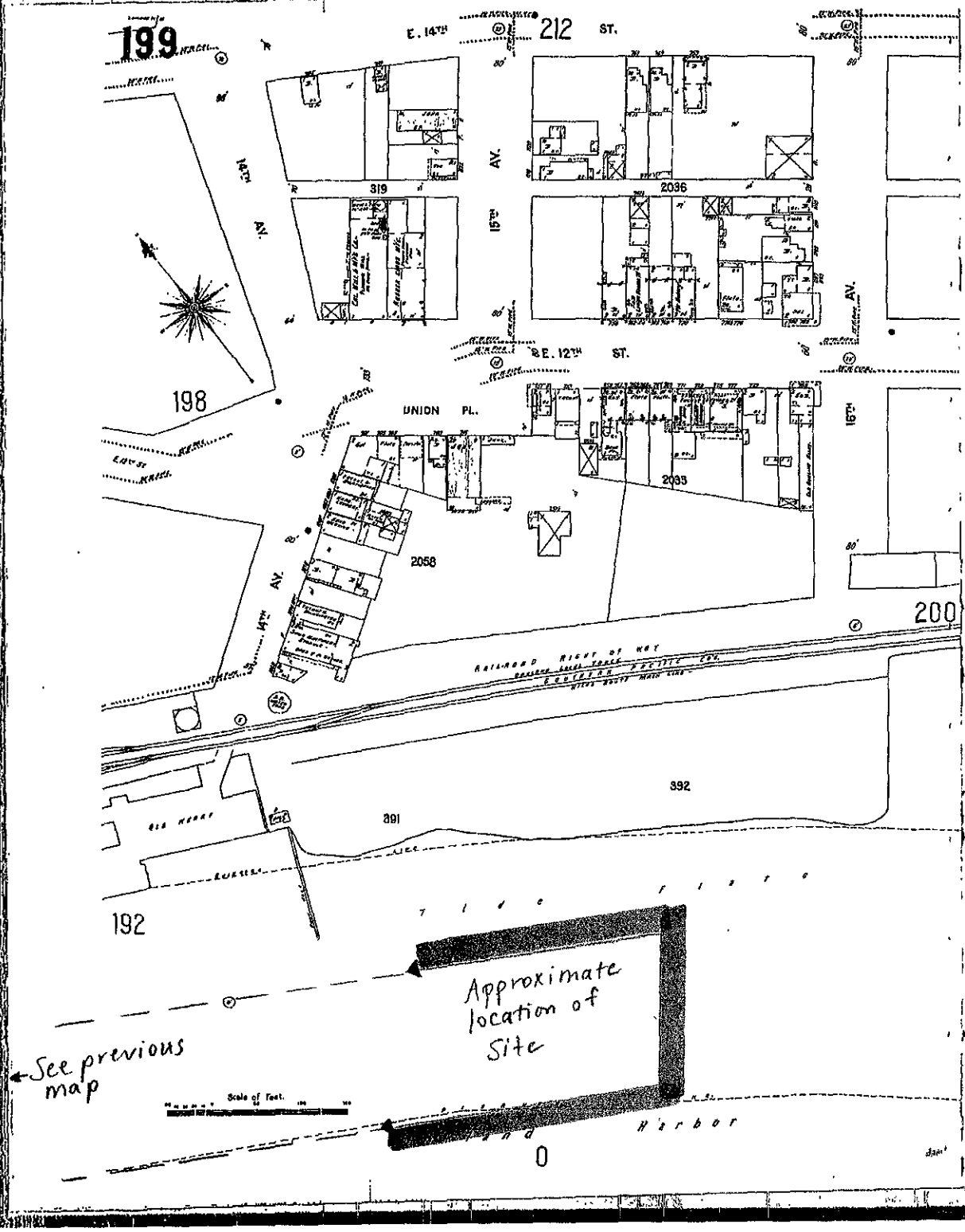
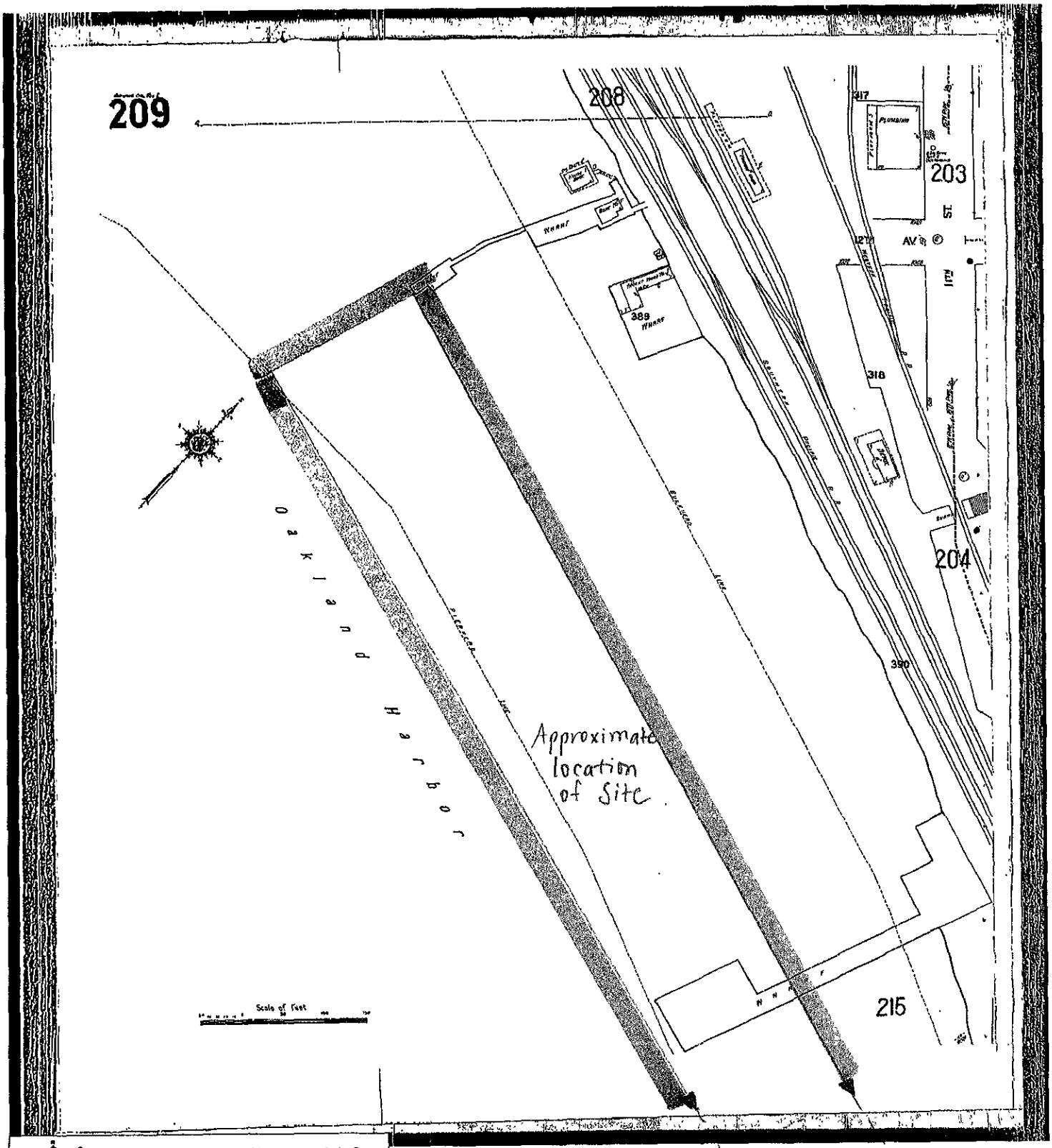
Iris Environmental (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.







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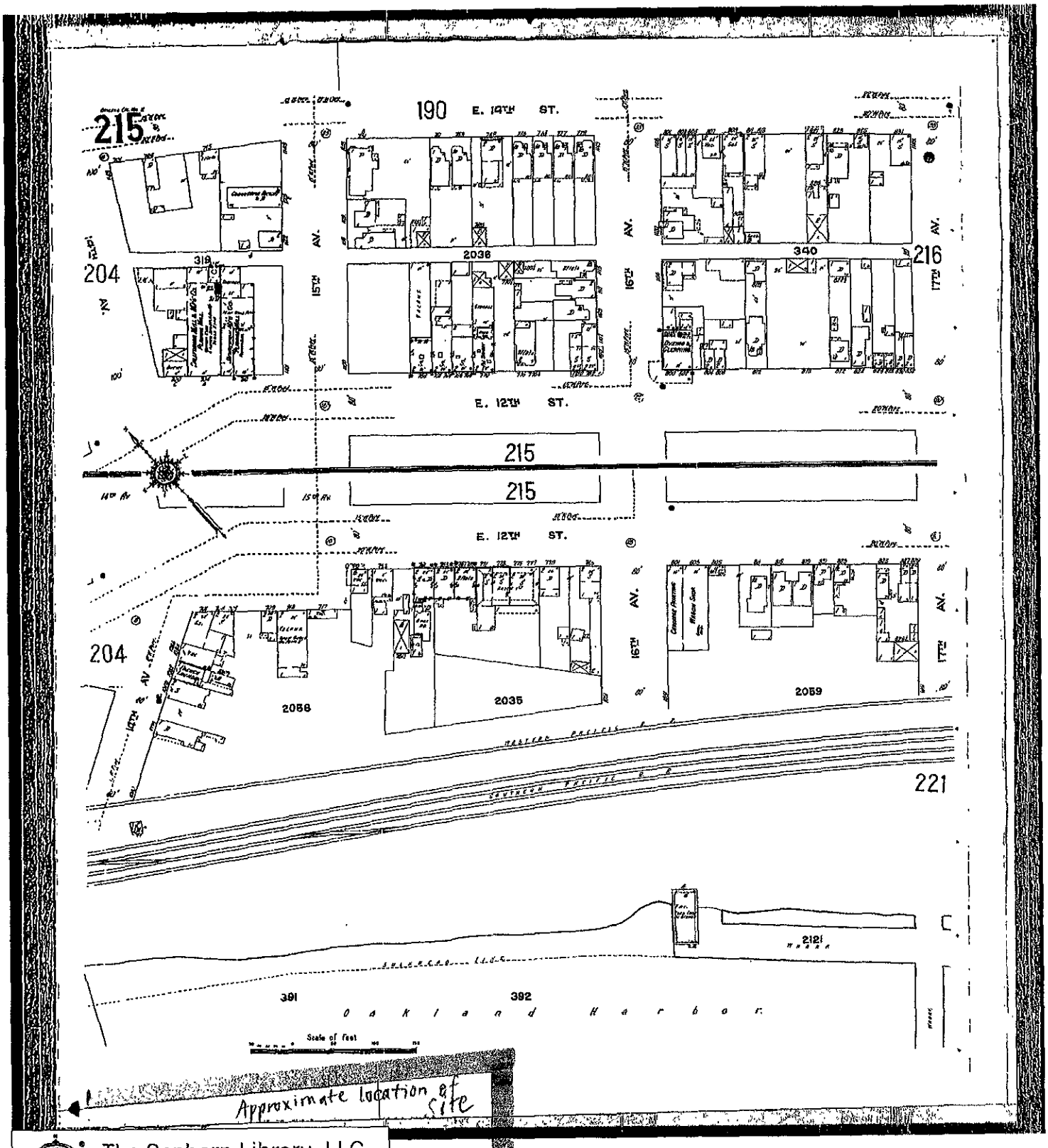

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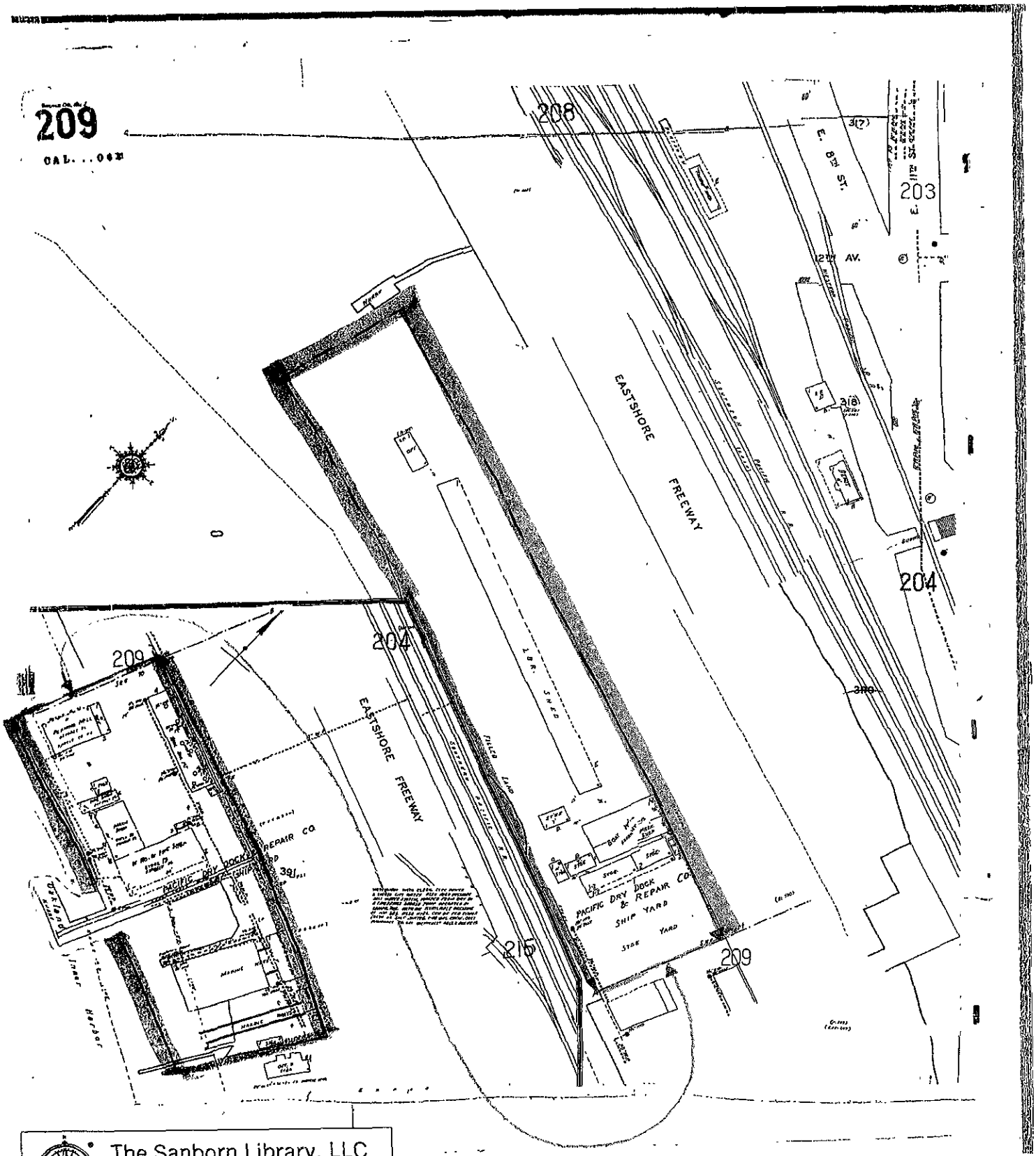
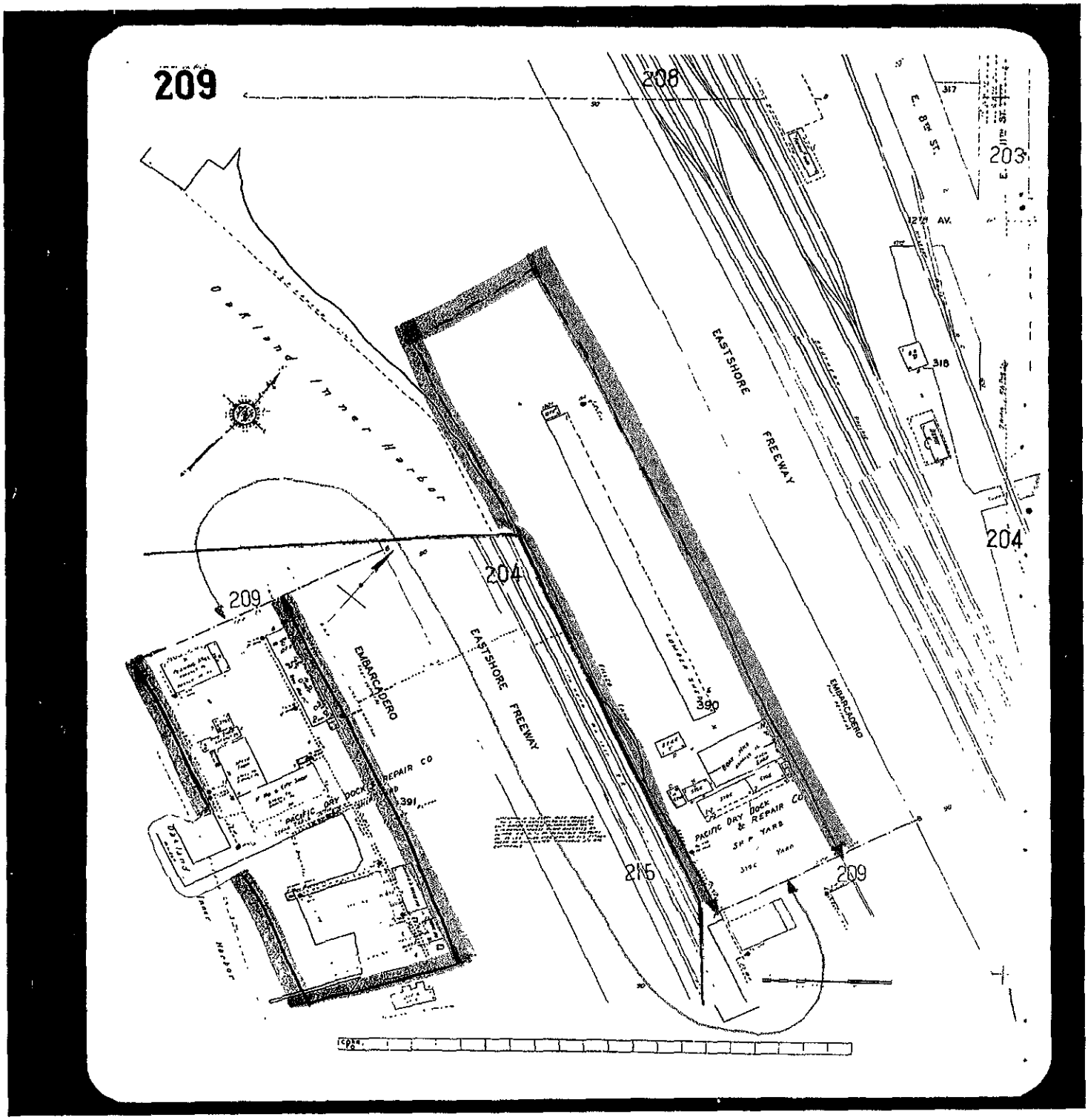
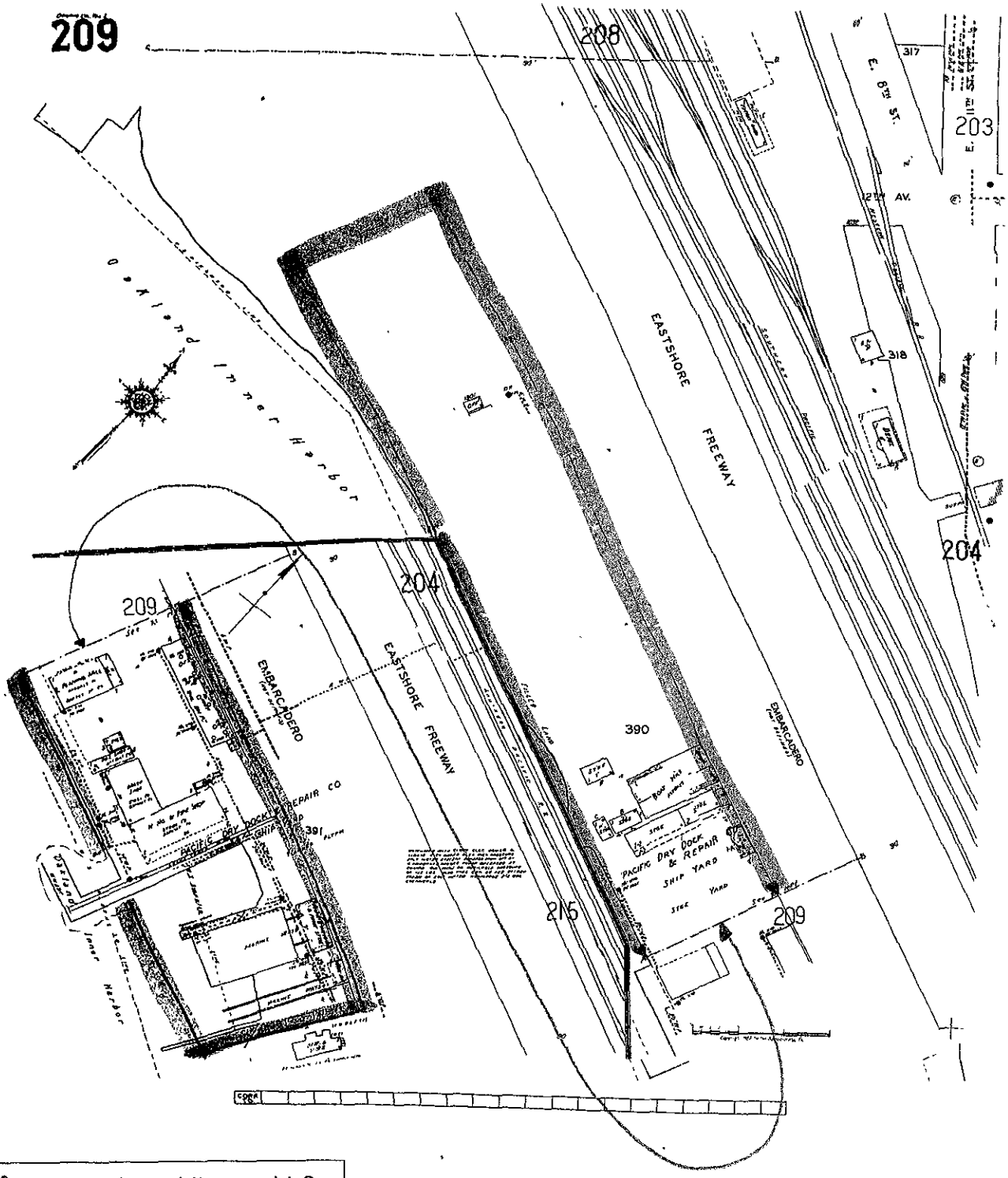
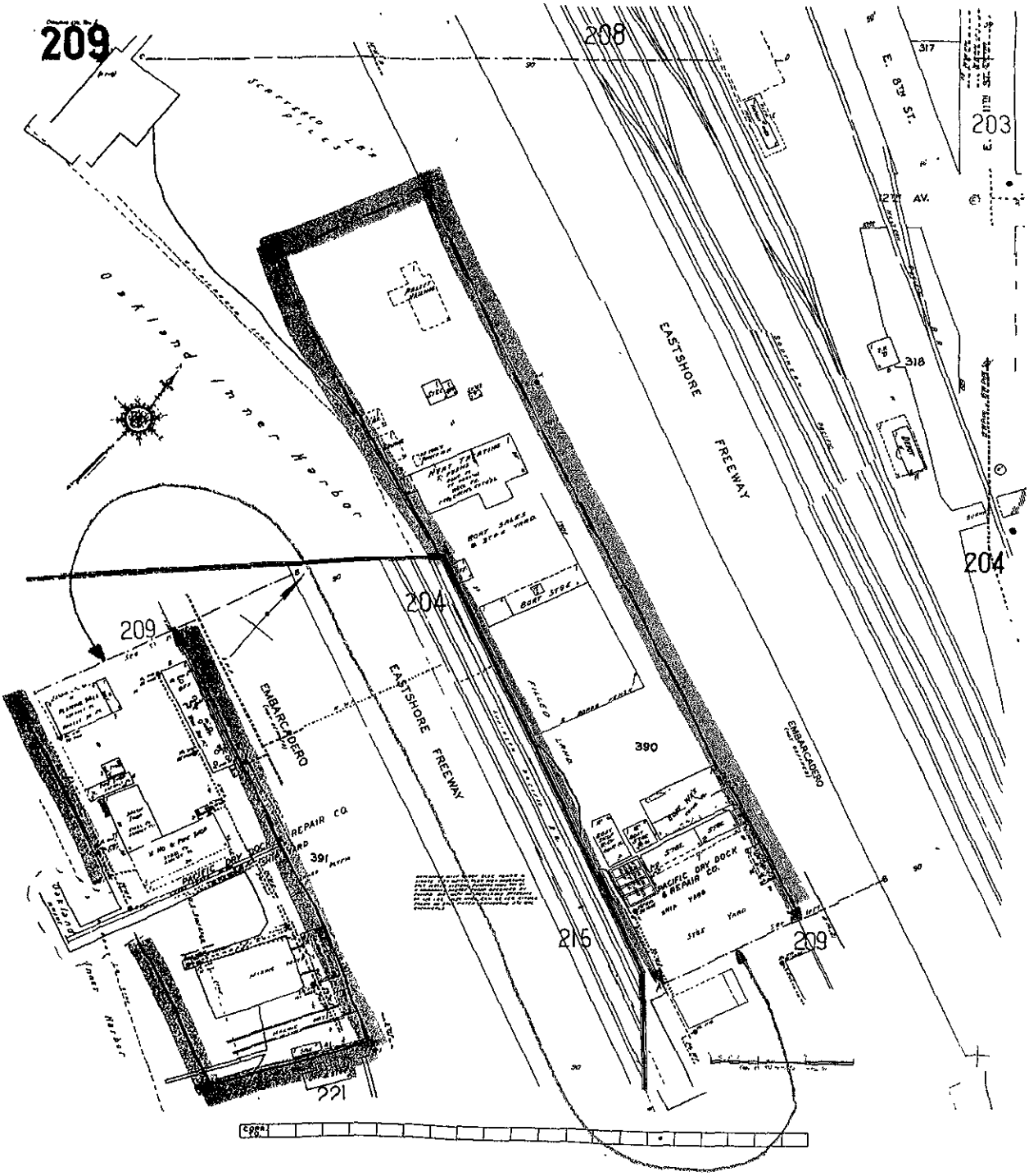
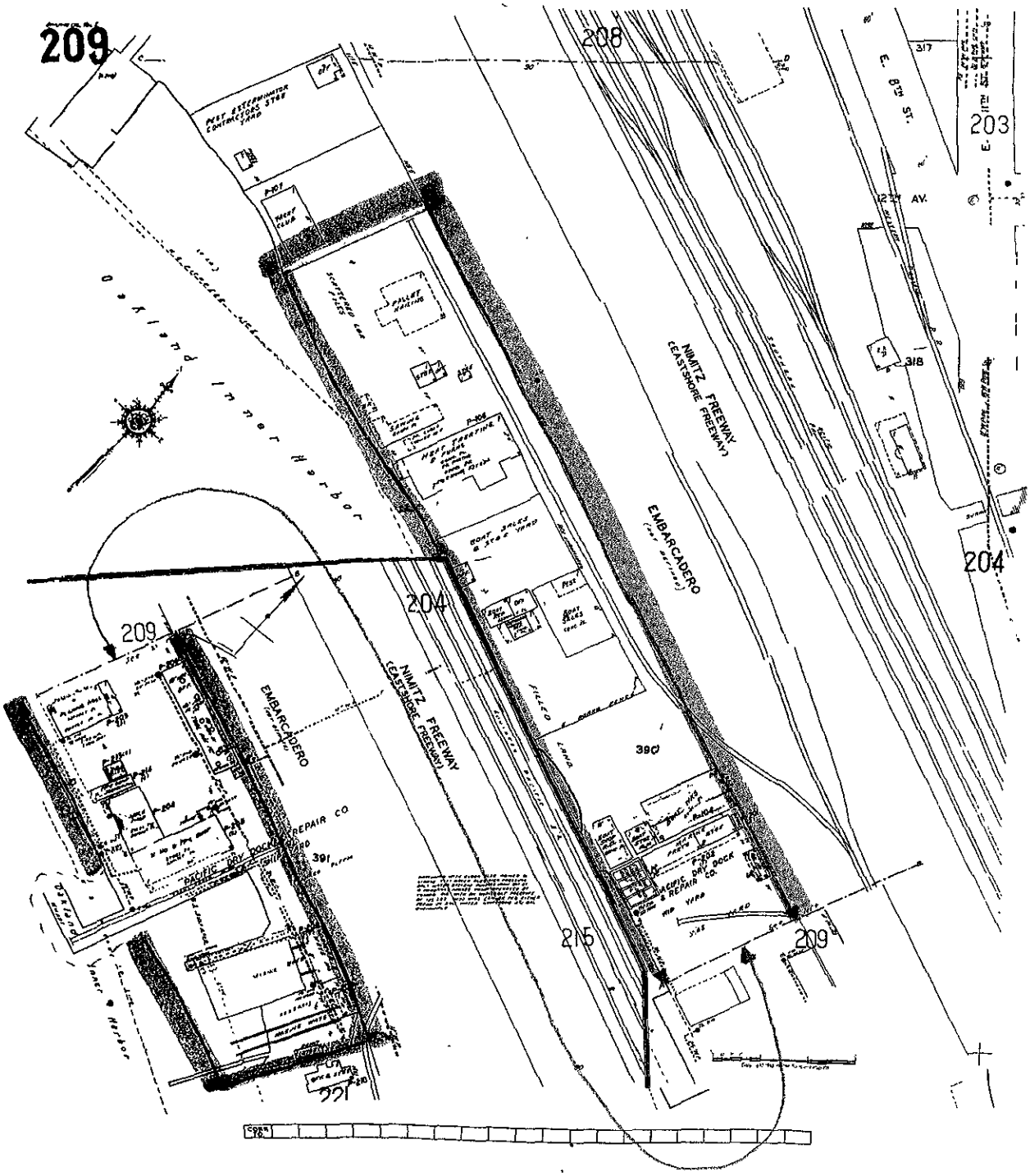
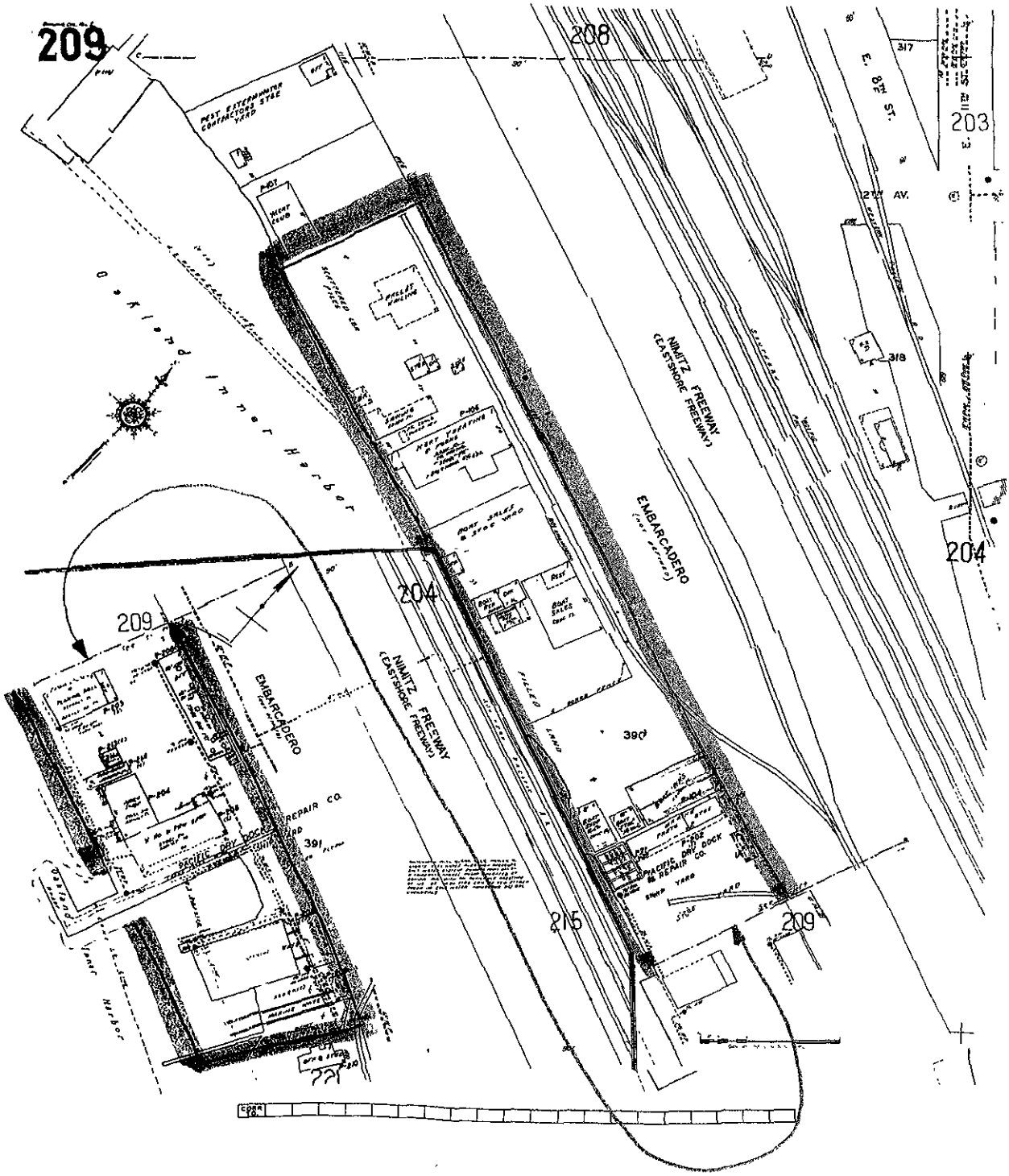


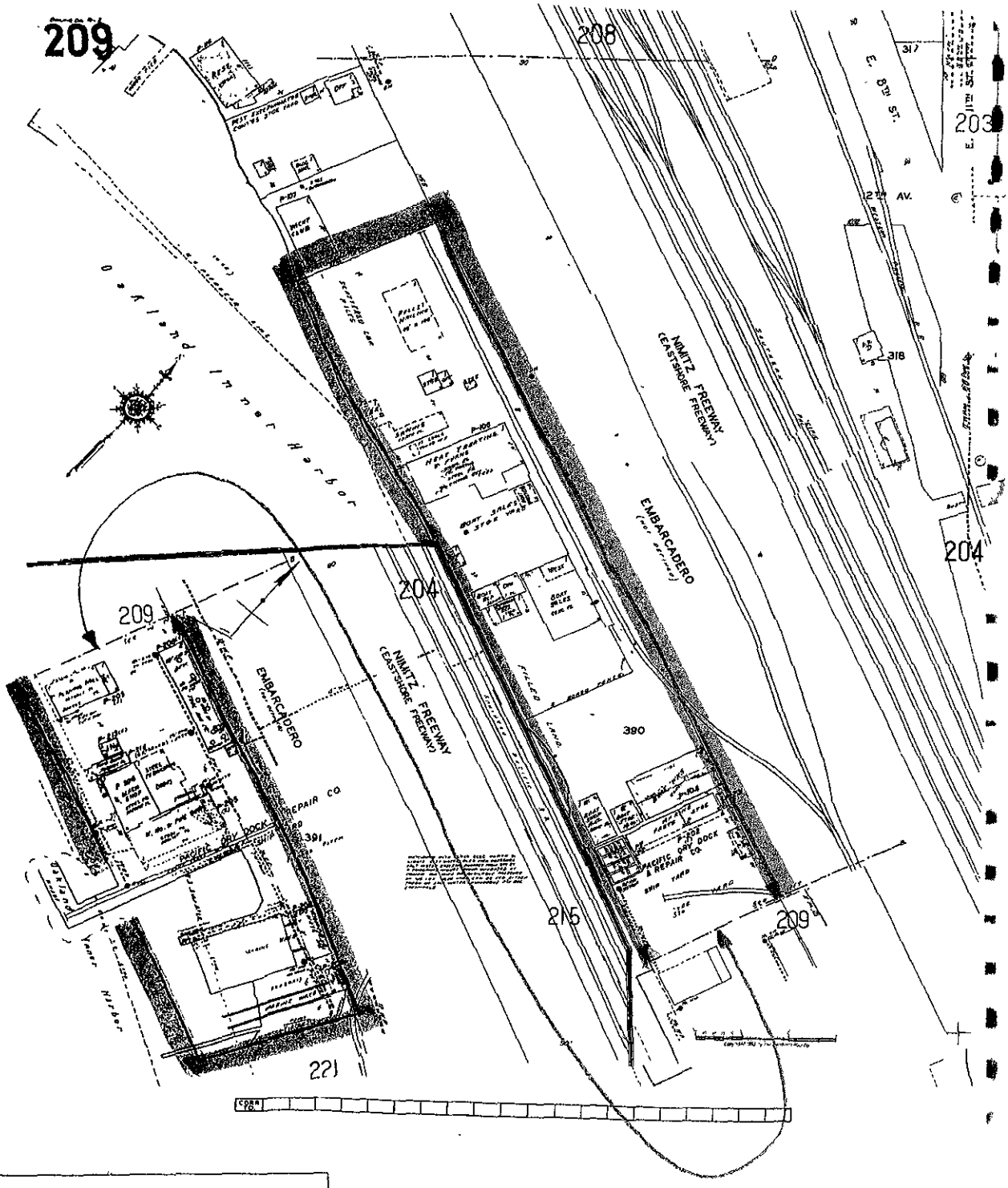


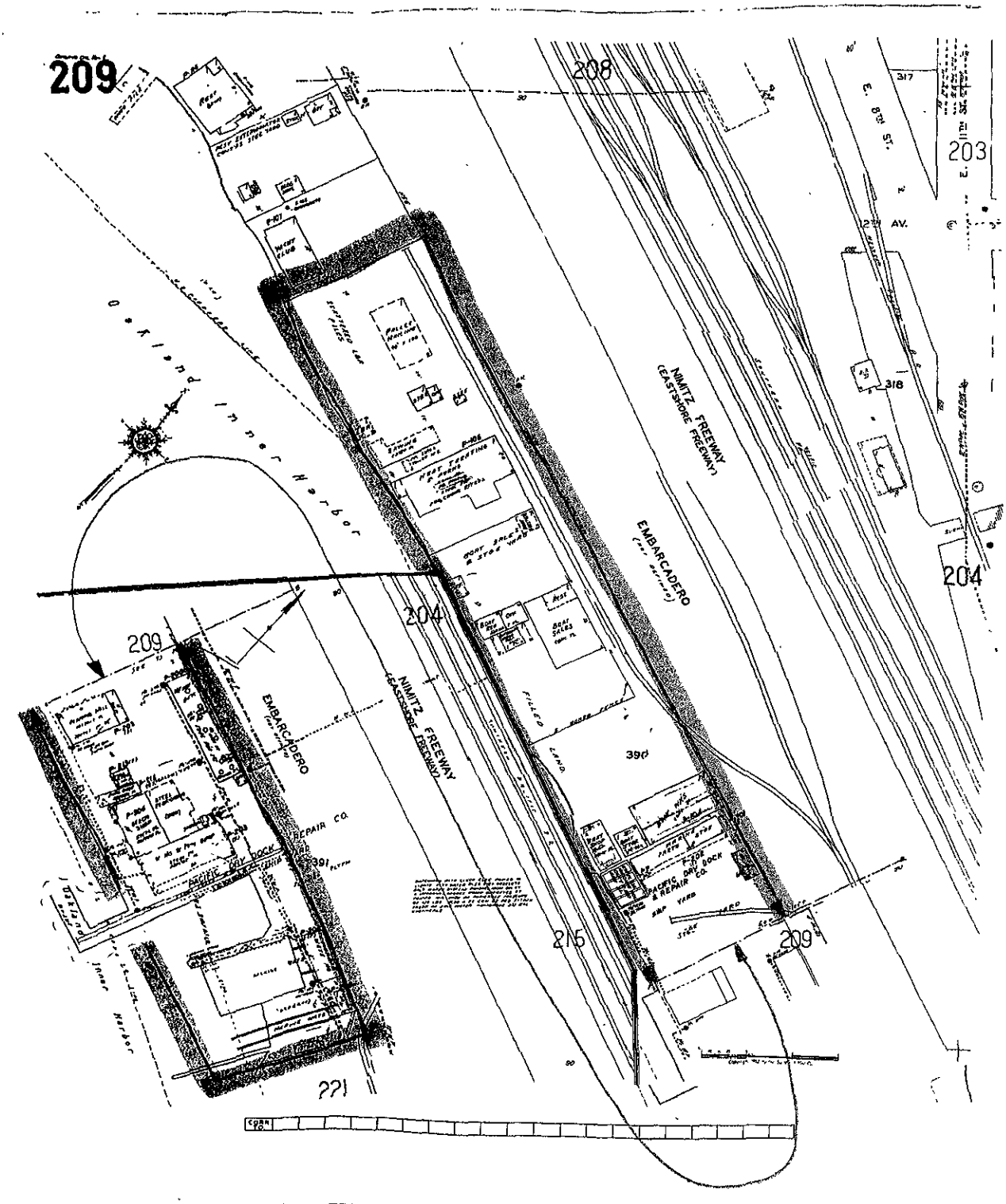


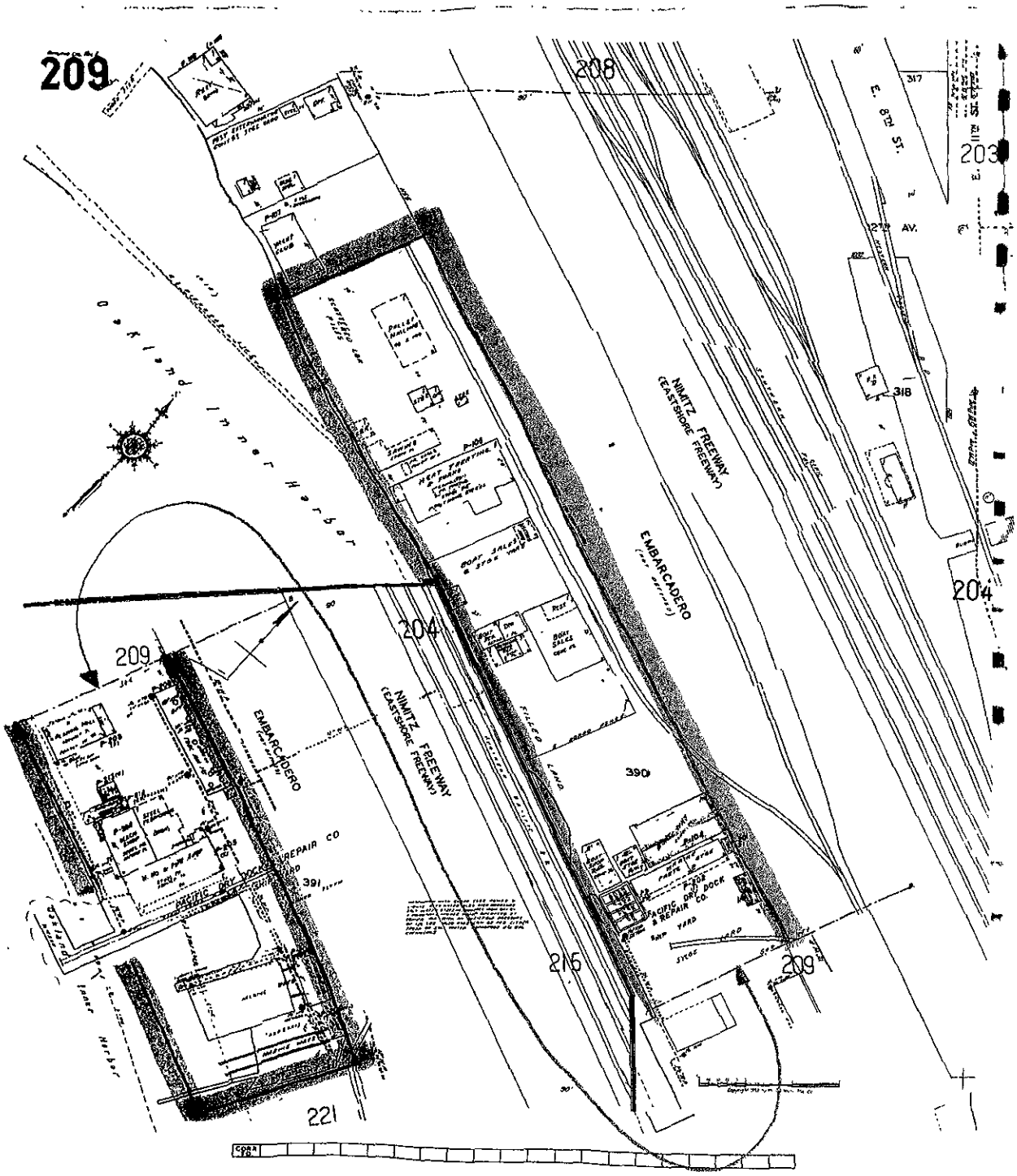


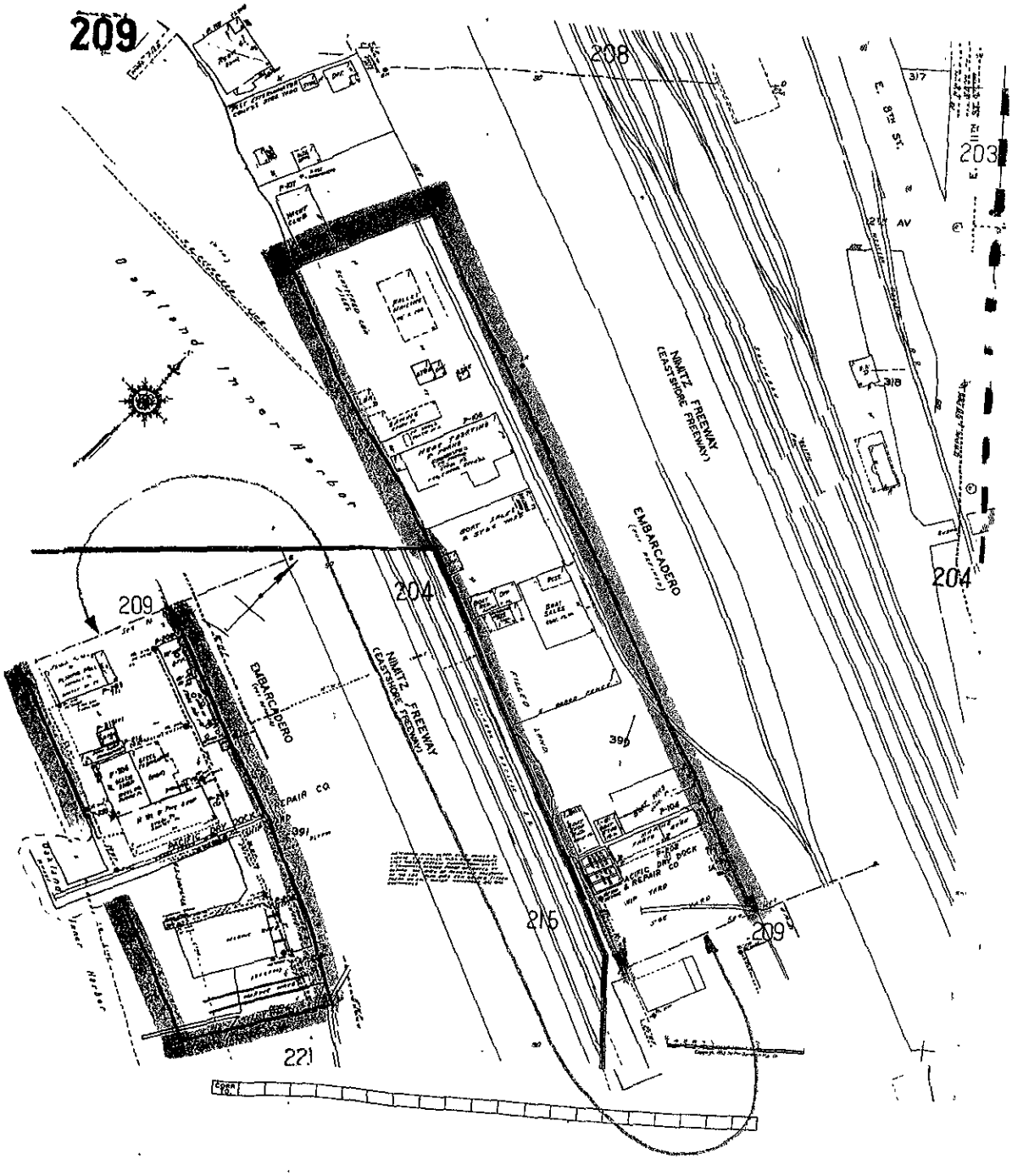












Historical City Directories listing the Site

Fidelity National Information Solutions
5060 Shoreham Place, Suite 300, San Diego, CA 92122-5903 tel 800.733.7606 858.450.6100 fax 858.450.6166
www.fnis.com

FIDELITY
NATIONAL INFORMATION SOLUTIONS™

PERTAINING TO:
PORT OF OAKLAND - EMBARCADERO COVE
1275-1441 EMBARCADERO
OAKLAND CA 94606

REPORT NUMBER:
444207/767743

PREPARED ON:
11/13/01

ON BEHALF OF:
IRIS ENVIRONMENTAL
1615 BROADWAY # 1003
OAKLAND CA 94612

If you have any questions or comments regarding this report, please contact Fidelity National Information Solutions, Inc. customer service at 1-800-767-0403 (formerly VISTA Information Solutions, Inc.), locally at 858-450-6100, or fax us at 858-450-6195. Thank you for your order.

FIDELITY
NATIONAL INFORMATION SOLUTIONS™

Overview of the FNIS Multi-Library City Directory Search.

City Directories have been published for many cities and towns across the United States since the 18th Century. Originally a list of town residents, the City Directory became a tool for locating individuals and businesses in a particular urban or suburban area. For each address within an area, City Directories list the name of each resident or, if a business operates from that address, the name and type of business. This historic overview of occupants of a given property is a valuable tool for companies involved in assessing the historic prior use of any residential or commercial property.

While the geographic coverage of City Directories is comprehensive for most major cities, many rural areas and small towns may not be covered. ASTM E1527-00 specifies that a "review of City (Street) Directories at less than approximate five year intervals is not required by this practice." (ASTM E1527-00, Section 7.3.2.1) In accordance with the above ASTM guidelines, the Fidelity National Information Solutions City Directory Search provides information for the area of interest at approximately five-year intervals.

Fidelity National Information Solutions City Directory research methodology includes searching various libraries and other sources throughout the United States, so as to provide the best chronological coverage possible. For this reason, several libraries may be utilized for one site, to ensure we provide the best possible coverage. Fidelity National Information Solutions City Directory searches include the subject property address and the next closest addresses published. In rural areas, these adjacent properties may be undeveloped. In such case, where no address has been assigned to the adjacent properties, only the subject property will be searched.

The FNIS Multi-Library City Directory search includes the following:

- Overview of the Fidelity National Information Solutions search
- City directory document
- Copies of the City Directory pages for your subject property and adjacent properties (if requested)

The Fidelity National Information Solutions City Directory search reviews the following resources in multiple libraries throughout the United States:

Polk City Directory	Johnson City Directory
Cole Criss-Cross Directory	Price & Lee City Directory
Luedder City Directory	Fitzgerald City Directory
Haines Criss-Cross Directory	Robinson City Directory
Bresser Criss-Cross Directory	Hill City Directory
Wright City Directory	Various County Specific Directories

	[illegible]	94605 CONT	
	[illegible]	[illegible]	4
	[illegible]	37 8151	4
	[illegible]	70 5407	4
	[illegible]	33 5465	4
	[illegible]	39 7839	+7
	[illegible]	39 [illegible]	
♦	[illegible] 11 RES	[illegible]	

ELVESSA 94605 OAKLAND

WEALTH CODE 8.9

10705	♦JONES Kimberly	638 1218	
10710	♦GROSSI William S	632 2752	+7
10800	♦JUMEL Lawrence	562 8909	9
10801	♦TOMPKINS Rosemary	568 3832	
10833	XXXX	OO	
10901	♦KEY Leonard	562 5030	
10950	BELL Jennifer	635 1623	3
	MF DIR Wm	635 1623	3
10995	XXXX	OO	
11135	♦CURRYRE P J Jr	638 7879	
11151	♦BURT Leroy W	638 5929	
11212	XXXX	OO	
11230	♦ALPHA EQUIP CO	562 8102	
11250	♦CAMPF Jimmy Jr	562 7150	
11330	♦YAHEN Helen	635 0780	9
11375	♦GRID Dan	636 0307	
♦	1 BUS 15 RES	1 NEW	

ELWOOD AV 94610 OAKLAND

WEALTH CODE 4.8

300	♦DONAN Ann M	839 6375	3
307	♦HURLEY A F	834 9346	
	PARKINSON John	834 9348	
310	♦MORA Vincent	444 3023	
312	♦MURPHY Kevlyn M	OO	+7
318	♦LEE Suelene	OO	
320	♦HAMPTON Wilma	OO	
324	XXXX	OO	
332	♦CHAY Willie	OO	
333	XXXX	OO	
336	XXXX	OO	
342	♦ARNOLD Cerry	832 5777	6
371	♦ADAMS David	OO	
373	♦LEE Edward	OO	
375	♦MOYAL Aaron	OO	
379	♦JACOB Michael	OO	
385	STEWART L	268 0592	
	♦STEWART D	268 0592	
401	XXXX	OO	
403	XXXX	OO	
407	♦ADAMS Jack M Jr	836 2508	
419	♦HOWELL Glenn	OO	
420	♦MIKOLAVICH Daniel	OO	5
423	♦LAND Lowell	OO	6
425	♦SMITH Julie	OO	6
429	AIKELE Mark	465 1952	
	♦TOUSEY John	OO	5
430	♦MCGEE Susan	839 2648	5
433	♦DEDOSSA Gen E	832 7926	
437	HOWARD Ellen	451 3798	8
	♦MCCARTHY P	53 1175	1
438	XXXX	OO	
441	♦HARDY Jana	OO	
444	XXXX	OO	
445	♦IVERSON Terry	OO	
446	BACH C	834 7227	0
449	XXXX	OO	
451	XXXX	OO	
452	DALZIEL Bake	763 2832	6
462	♦ASH WILL&ASSOCIATES	444-5622	1
	♦ENGEL PETER	465-8420	6
	♦TRANK MARKETING	893-3656	9
465	XXXX	OO	
485	♦HARTLEY Claudia	763 5855	5
	♦HOOVER TESS EA	444-0061	6
	♦LINDQUIST K LAC	834-6248	6
	MURPHY Michael A	834 8640	8
495	LATLER Steve	451 8242	+7
	♦PILNICK LAURA MFCC	465-0653	2
	TORSIELLO Peter	465 1557	
	♦WAHOSSI	893-6150	+7
♦	7 BUS 44 RES	3 NEW	

ELYSIAN PL 94605 OAKLAND

WEALTH CODE 7.0

1	MAHONEY Hugh	636 0494	8
5	IRVIN Frank E	635 1519	
6	HOWELL A	638 9529	2
10	FOX Jas V	635-3642	
♦	0 BUS 4 RES	0 NEW	

ELYSIAN FIELDS DR 94605 OAKLAND

WEALTH CODE 7.0

21	XXXX	OO	
22	FIORE Jack F	638 8626	
35	XXXX	OO	
52	INGRAM Elma	638 0901	+7
70	♦FRAUSTED B G	638 0907	
74	♦FERREIRA D L	638 1711	
82	SATTERTHWAITE L H	635 8792	
95	XXXX	OO	
107	SAMPSON A	569 1231	8
115	XXXX	OO	
133	♦STARKS Fred L	638 6335	
198	CAPERS Joe	635 5554	+7
199	SAUNDERS Calvin	568 8283	
230	HARMON Gloria	632 3225	
	HARMON H Mahlon	632 3225	
259	HENDERSON Larry A	587 8669	+7
265	♦BROWN Chas	639 7739	4
275	MARSETTE Wm A	569 2230	
287	BENTON Calvin MD	568 8743	3
299	♦SATTERFIELD Frances	568 1577	
301	XXXX	OO	
311	♦MUS B	632 7952	
320	♦CORREIA John W	638 7606	
330	XXXX	OO	
347	♦HENDRICKS Carmen	633 1694	
350	♦YOFFYTH Jack	635 5143	
363	♦GOLSON Alfred P	569 4110	
398	♦TATE Francis	568 7008	3
400	♦MEYER Etta	635 9097	
401	♦PHILLIPS Mickey L	568 4768	
445	WOLFE I	636 9100	0

	ELYSIAN FIELDS DR	94605 CONT	
520	♦SCOTT Wm J	632 6411	
540	THROWER Jewell	635 3817	
550	XXXX	OO	
560	♦BOLTWOOD J M	562-3088	
590	♦GORDON Lonnie R	568 6013	
610	♦MCNEELY Warren	638 0951	5
♦	0 BUS 37 RES	3 NEW	

EMBARCADERO 94606 OAKLAND

WEALTH CODE 1.0

105	♦DISCOUNT CLUB	465-4901	4
	♦SUNSET WHOLESALE CO	465-4901	4
	♦SUNSET WHOLESALE CO	834-6271	4
308	XXXX	OO	
321	XXXX	OO	
325	OAKLAND Stokes	893 6877	4
351	♦CAMPBELL BARBARA	465-1093	9
	♦CONTL GLASS INC	444 5277	4
	♦GOLDEN ST OIF SL MAN	465 1093	9
	♦GOULD LORNE E CMS	465 2527	9
	♦INTL CARGO GEAR BUR	465-2527	4
	♦JACK S ENGINE SUPPLY	465-8890	+7
	♦MINKWITZ PETER	465 2527	6
	♦NAUTICUS SURVEYORS	465 2527	6
364	XXXX	OO	
370	♦FIRST STOP	835 1706	6
380	♦JEWEL S ON THE SQUARE	763 4422	+7
400	XXXX	OO	
401	XXXX	OO	
449	XXXX	OO	
4570	XXXX	OO	
485	♦THUM ARTS	271 8031	4
	♦THUMHART FRED	271-8031	4
490	XXXX	OO	
495	♦ALLSTARS CAFE&SPORTS BAR	451-8255	+7
	♦OAKLD CAFE&SPRT BAR	451-8255	6
499	BUILDING		
	♦BAKER PATTY	208-3004	+7
	♦BOARDWORKS	832 2228	
	♦BRIGANDI JOE	444 3115	4
	♦CHIANG JEANNE	893-1212	2
	♦CLEMENS C FAUXREAL	839-8802	
	♦COCHRAN RICHARD	834-9816	5
	♦CUSTOM CRAFT CO	835-4430	+7
	♦DEFINED DESIGN	272-0819	1
	♦DIKENDFN ENGRAVERS	835-4430	6
	♦FIASCO	268-3748	5
	♦FIFTH AVENUE MARINA	834-9815	1
	♦HARPER RAYMOND ASC	444-4803	4
	♦INSIGHT OF SIGNS	832-2218	6
	♦M&M DRILLING&SHORNG	444 2034	1
	♦P D Q PACKAGE DLVRY	834-7900	2
	♦PHOENIX IRON WORKS	465-8900	6
	♦PORITSKY S M	763 1781	
	♦S O F T	839-3399	3
	♦S V PRODUCTIONS	272 9608	8
	♦SILVA E A	763 8752	
	♦SILVA E A	763-5248	6
	♦SILVEIRA J W CO	834 9810	
	♦SILVEIRA J W DVLP	834 9811	
	♦SILVEIRA J W INVST	834-9814	
	♦SKYLINE MOTORS	834-9813	
	♦SMALL OWNRS TREATMT	839-3399	
	♦VICTOR ELECTRIC	452-4088	+7
499	. . . .		
555	XXXX	OO	
601	XXXX	OO	
603	♦PHILBRICK DON BOAT	893-9443	0
625	XXXX	OO	
639	XXXX	OO	
645	♦FINANCL FOUNDATIONS	452 2088	6
	♦FINANCL NEWS&VIEWS	452 2009	9
	♦FURNITURE LIQUIDATN	251 2222	6
	♦LEVY&ASSOCIATES	763-4540	5
	♦NATL FRNTR LIQDTRS	251-2222	6
901	♦LIQUID CARBONIC	451-4100	
1000	BAUML R	277 9254	2
	♦OYSTER REEF	836-2519	
	♦REEF THE	836 2519	2
	STANPHILL Tony R	452-0214	3
1103	XXXX	OO	
1107	XXXX	OO	
1111	♦ARK THE	893-5800	
1115	XXXX	OO	
1155	♦BLUEWATER CANVAS	839 1991	+7
	♦INTEGRE MARINE LTD	465 6060	9
	♦TRAILER BOAT SALES	763-1964	6
1201	♦BARCLAYS SEAFOOD	261-3287	
	♦HUNGRY HUNTER	261-3287	
1221	XXXX	OO	
1285	♦HARRISONS MARINE CT	535-6160	
	♦HARRISONS MARINE CT	535-6161	9
	♦HARRISONS SEARAY	535-6160	
	♦SEARAY	535-6160	9
1295	CLARK Michael	536 1044	3
	DIFFENDERFER John	533 7418	
1301	XXXX	OO	
1307	XXXX	OO	
1311	XXXX	OO	
1313	XXXX	OO	
1755	♦EXECUTIVE INN	536-6633	3
	♦EXECUTIVE INN	536-9316	+7
1759	XXXX	OO	
1801	♦MOTEL 6	436-0103	5
1817	XXXX	OO	
1820	♦MACBALL POOL COVERS	534-0274	
	♦MCBALL INDUSTRIES	534-0278	
	♦WEST CST LAMINATING	534-0944	
1822	♦A B C SECURITY SRV	436-0668	1
1830	♦A V I SYSTEMS INC	535 1020	4
1831	XXXX	OO	
1840	♦BARAR PIROOZ&ASSOC	536-3538	6
	♦PIROOZ BARAR&ASSOCS	536-3538	6
1841	XXXX	OO	
1851	♦ENVIRONMTL&SAFETY	536-6444	4
1853	♦CONCEPT MARINE ASSOCIATES CMA	533 7600	+7
	♦DANIEL MANN JOHNSON&MENDELHALL	536-7837	+7
1855	APARTMENTS		
	BERRY Robert Lyle	261 6320	2
	LENNOX Barry B	261 9919	6
	PARMELEE Seldon	532-6694	6
	SCHUMACKER R W	534 5952	+7
	WEST B M W	533 3324	
1855	. . . .		
1885	XXXX	OO	
1900	♦ALMDA CO HLTH ADMIN	535-6087	6
	♦ALMDA CO HLTH HOME	535-4975	6
	♦BUSLER TIMOTHY C	437-6200	4
	♦CA ST ATOMBL ASNAAA CLAIMS AV	436-5011	9
	♦GLAVINOVICH GARY P	437-6200	1
	♦HINSHAW THOMAS	437-6200	+7
	♦LABRIE PAULA D	437-6200	+7
	♦LORRAINE MARIA C	437-6200	4
	♦MACMORRIS JOHN W	437-6200	6
	♦MANDELL LORI	437-6700	6
	♦MARTINEZ C B	437-6200	4
	♦MICHAEL STANLEY J	437-6200	4

	EMBARCADERO	94606 CONT	
	♦MIZUNO BARBARA K	437-6200	4
	♦N S I HOME HEALTH SERVICES INC	835 5930	+7
	♦N S I NURSING SERVICES INTL	835-5930	+7
	♦PORT DELI	436-4040	9
	♦PRESTON STEFFEN	437 6200	6
	♦SKERS GEORGES H	437-6200	
	♦STEVEDORING SERVICES AM OAKLD	535-1110	+7
	♦STINSON SHAWN G	437-6200	
	♦VELEZ MARK P	437-6200	4
1924	XXXX	OO	
1931	XXXX	OO	
1935	XXXX	OO	
1940	♦SEAWORKS INC	532-4880	4
1942	♦FAMILY HM COMPANION	261-4663	6
1944	♦DOUGHERTY JACK ATTY	261-8188	6
	♦HAYES AND MITCHELL	261 8188	6
	♦HAYES DEBRA A ATTY	261 8188	6
	♦MITCHELL DANL ATTY	261-8188	6
1946	♦CA SOUTHEAST ASIA	536-1987	3
	♦CARMEL PAC BUILDERS	436 6161	3
	♦FRANCISSEN J ATTY	437-6336	5
	♦HARRISON JACK ATTY	437-6336	
	♦HARRISON&FRANCISSEN	437-6336	
	♦POTASH STEPHEN J	261-1570	
	♦POTASH&CO PUB RLTNS	261 1570	
	♦SOUTHEAST ASIA BSNS	536-1987	9
1950	XXXX	OO	
1951	XXXX	OO	
1955	♦METRO YACHT CLUB	536 8564	5
1960	XXXX	OO	
1970	XXXX	OO	
1989	XXXX	OO	
1990	XXXX	OO	
2000	♦A F S C M E CNCL 57	839 3791	4
	♦ALMDA CO HLTH ALCHL&DRUG DIV	567-8100	+7
	♦ALMDA CO HLTH BLLNG	835-4940	6
	♦ALMDA CO HLTH REFGE	835 6985	6
	♦CHILD DEVLP PROJECT	839-0213	8
	♦COURTS KATHLEEN	832 5272	2
	♦GEMARK JANITORIAL SERVICE	835-4468	+7
	♦JOHNSON ROBERT ATTY	832-5272	2
	♦MITCHELL K E ATTY	832 5272	
	♦MORRISON JOANNE E	832 5272	2
	♦ROBINSON BARI S	832-5272	+7
	♦RUBICON PROPERTY SV	834-4700	1
	♦TAMARO THERESE W	832 5272	6
	♦WHITE COURTS	832-5272	
	♦WHITE JOS T JR ATTY	832-5272	
2100	BUILDING		
	♦ADVANCED ENGINE	437 8990	3
	♦BURR L L ATTY LAW	893 7877	3
	♦CAREER EXPO	436-3978	0
	♦ENVIRONMTL MNG	832-3305	6
	♦GORDON SHELLEY ATTY	835-1452	9
	♦LOGICAL OPTIONS	436-3992	+7
	♦MCCARTHY S M ATTY	836-6183	3
	♦RIEGG GARRETT LAW	535 2553	6
	♦SONOMA PACIFIC CO	261 1843	
	♦STAN FLOWERS CO	261 9894	3
	♦SULLIVAN ASSOCIATES	535-2383	6
	♦SULLIVAN GROUP THE	535-2580	
	♦SULLIVAN MICHL ATTY	535-2580	
	♦WAITE R M INC	535 2588	1
2100	. . . .		
2301	APARTMENTS		
	ARNOLD N MFCC	534-6763	+7
	CROSS Larry	532 7576	2
	GOLDSBERRY Mary	261-2943	2
	LEFEBVRE C A	532 4563	+7
	LEWIS Jas J	536 2341	6
	LEWIS Jerry	436 0547	5
	MADISON Garry	532-5500	6
	MILLNER E	533 1334	4
	MITCHELL Michael	534 2088	+7
	SKAGGS William	536 1069	3
2301	. . . .		
2400	♦COMMERCL DELIVERY SERVIE	532-4022	6
	♦PARK TILDEN MOVERS	832-2170	6
	♦REGENCY ANTIQUE	534-0603	6
♦	144 BUS 54 RES	23 NEW	

EMBARCADERO W 94607 OAKLAND

WEALTH CODE 1.0

1	APARTMENTS		
	HERNANDEZ Kim	832 2002	
	HERNANDEZ Ramiro	832 2002	
	HOLLOWAY K C	451 8545	+7
	LUCICH E Michael	834-3223	2
	MASTERSON Robert H	763 7669	5
	NGUYEN Binh T	832 3031	4
	VANZEE Rick H	763-9336	2
1	. . . .		
3	APARTMENTS		
	FONG Lettie	444-6342	
	FONG Nathan	444-6342	
	HOFINGER Fred	451-6721	5
	LYONS Ruth	444-8238	2
	MESA T	465 1027	+7
	MATTO Edgar	452-0609	+7
	BING Don	832 1340	3
	STEWART James Col	451 2412	6
	TAYLOR Paula	763 5002	4
	WALSER Alfred	465 7111	3
	ZIMMERMANN T K	451 8005	5
3	. . . .		
5	APARTMENTS		
	CHAN Paul	893-7232	+7
	GORI S J	451 2061	+7
	HARRIS James T Jr	763-2891	6
	HERNANDEZ Carlos	465 7034	+7
	♦JACK LONDON COURT	444 3376	8
	KELLEY T	893 7229	6
	LASSMAN Raymond	835 4128	2
	MILLER Bryan	452 3727	5
	PAUL Michael	893 7046	5
	RUFFOLO Craig	444-6449	6
	SERT Levant	834 2066	5
	TSANG Ernest	452 0303	2
5	. . . .		
7	PORTOBELLO CNDMNMS		
	BRELAND James	451 5683	6
	BRETT Wm H	832 0338	
	BROOKS Rudolph E	763-7842	+7
	KARIMABADI M Dr	835 1104	2
	LAU Harry	891 9203	2
	NIELSEN Thomas P	452 1342	3
	O'Shaughnessy Paul	208 3677	+7
	♦PORTOBELLO HOMEOWNR	465-9643	3
	SANDS T	836-4664	6
	VENKATESH A	465-9048	5
7	. . . .		
11	BUILDING		
	♦BERENFELD K ATTY	834 3800	2
	♦BURKE&KESSLER A PRFSNL PRTNRSHP	444-8100	+7

	EMBARCADERO W	94607 CONT	
	♦CONDIE R S ATTY	272-0200	
	♦CUSTOM MRTG&LOAN	465 8282	
	♦DANNA SAILING CO	451 7000	
	♦ECLECTUS SOFTWARE	444-6605	+7
	♦FIELD ACCOUNTANCY CORP	874-1458	+7
	♦JORDAN ASSOCTS INC	763-2400	
	♦KESSLER JOHN DAVID ATTY	444-8100	+7
	♦KESSLER NATHAN ATTY	444-8100	+7
	♦LEE RICHARD J ATTY	272-0200	
	♦MCKEANY FLAVELL CO	832-2866	
	♦MEIER COMRCL INS	893-1222	4
	♦MEIER RICHARD W	834-3800	3
	♦METRO TRAVEL	287 3935	4
	♦OKIRA&ASC INC	839-0667	
	♦READY DANIEL J ATTY	834-7587	5
	♦RYAN&TABOR ATTYS	444-5350	4
	♦TABOR ALLAN M ATTY	444-5350	4
	♦VIDEO MAKERS WRKSHP	451-3606	6
	♦WALKER GREGORY ATTY	451-6070	
11	. . . .		
18	♦CARRIES	451-2333	6
370	XXXX	OO	
372	XXXX	OO	
380	XXXX	OO	
384	♦AMHEALTH MDCL GROUP	465-9565	6
	♦K D I A RADIO AM	251 1400	5
	♦K D I A RADIO AM	444-1310	5
	♦VESPER SOC	444-7774	6
444	♦JACK LONDON BAR	832-6637	6
	♦JACK LONDON INN	444-2032	6
	♦JACK LONDON INN	763-9784	9
	♦MO'S JACK LONDON BAR	832-6637	+7
	♦MOE'S JACK LONDON BAR	832-6637	+7
495	XXXX	OO	
499	XXXX	OO	
525	♦BEVERAGES&MORE	208-5126	6
1101	♦FRANCIS REBAR FABRICATION	444-5188	+7
	♦SCHNITZER STEEL	444-3911	5
♦	36 BUS 43 RES	16 NEW	

EMBARCADERO COVE 94606 OAKLAND

WEALTH CODE 1.0

1	♦EMBARCADERO COVE	532-6683	9
	FRASER B	534 7906	3
	LAGIER Robert	533 5981	2
7	XXXX	OO	
9	♦BRITISH MARINE&INDS	834 2757	0
	♦PERKINS DIESL ENGNE	834-2757	1
11	XXXX	OO	
13	♦NOVOTNY MACHINERY	436-6937	5
14	♦PAC MOTOR TRANSPORT PACER DIV	835-7000	+7
15	XXXX	OO	
17	♦VAUGHAN WM E ATTY	532 1186	
18	♦PALMER&ASSOCIATES	536-0800	+7
19	♦NUAIR EXPRESS	533-6287	+7
25	XXXX	OO	
27	♦HAVILAND ASC ARCHTS	532-6996	
	♦HAVILAND PERRY A	532-6996	
	♦PERRY A H AIA	832-6996	
29	♦SUPERIOR YACHT SLS	534-8492	3
35	♦BRUNK LEASING CO	535-1385	4
	♦CHANEY WALTON&MCCALL	534-3100	+7
43	XXXX	OO	
45	♦ALSCHULER GEO ATTY	436-6601	6
	♦COOPER LEE ESQ ATTY	261-5066	
	♦COOPER&THOMPSON LAW	261 5066	
51	♦QUINNS LGHTHSE REST	836-2050	
53	♦FLOAT A LOAN	836-5626	5
55	XXXX	OO	
♦	19 BUS 8 RES	4 NEW	

EMERALD 94609 OAKLAND

WEALTH CODE 4.0

4101	♦HANNIBAL CONSTR CO	653-8581	9
	♦ONEIL OWEN ASSOCTS	653-8601	
	♦POSTEN DESIGN SYSTM	653-8914	9
4103	MARTIN Melanahe	547 8212	+7
4105	XXXX	OO	
4106	SULLIVAN M	658-3394	
4108½	MYERS J K	428-0238	
4109	♦IMRIE P J	652-2900	
4111	♦HABIGER Emil K	653-4143	
4112	CRIPE Brett	547-3928	5
4113	TAYLOR P	654-6889	
4118	BORTON Rand	601 0253	1
4119	SMITH S	653 6258	6
4120	ESCHENBURG Susan	547-4862	0
	HOLLOWAY John	652 1558	5
	PSOAS M	547-4760	6
	SANFORD S	420-8162	6
4124	WILLIAMS E J L	652-9052	+7
4135	♦BEBEE Jim	655 1078	
	♦BEBEE Lorraine	653-9751	2
	♦BEBEE Lorraine	655 1078	
4139	XXXX	OO	
4140	♦NELSON Dennis	653 7848	1
4146	XXXX	OO	
4148	XXXX	OO	
4151	ADRIANO Aurora	653 2794	0
	SMITH Wm H Jr	652 5912	8
4155	XXXX	OO	
4157	XXXX	OO	
4159	XXXX	OO	
4161	XXXX	OO	
4169	MAGIDOFF Dickie	653 8721	5
4170	XXXX	OO	
4173	MUSSACK Jerry	597 1907	+7
4174	XXXX	OO	
4175	XXXX	OO	
4179	♦WILLIAMS Gail	653-9887	6
	♦WILLIAMS Rick	653 9887	8
4180	XXXX	OO	
4183	UMBACH A C	652 1316	6
♦	3 BUS 37 RES	3 NEW	

EMERALD WAY 94547 HERCULES

WEALTH CODE 8.0

130	♦PROBITY FINANCE	799-4567	9
175	JASSO Raul	799-5043	3
♦	1 BUS 1 RES	0 NEW	

EMERIC AV 94806 SAN PABLO

WEALTH CODE 1.4

1311	GARCIA Adolfo
1320	♦ROJAS Jose
1321	XXXX
1322	XXXX
1327	DELEON Alvarado Esteban
1329	♦MORENO Celso
1334	CADENA Jorge
1336	♦JACKSON Raymond
1400	XXXX
1401	XXXX
1404	♦GONZALES Patricia
1412	♦SANDOVAL Roman
1414	♦WILSON Lee
1420	♦DIAZ Roy
1491	♦RIOS Juan
1493	♦MONIGAN Timothy
	WALKER John
1495	♦MEDINA Martin
1497	♦CONTRERAS Juan
1498	XXXX
1499	♦RAMIREZ Juventino
1501	♦FERREIRA Manuel L
1504	♦CABRERA Andres
1509	♦SOUSA Pedro
1513	♦OCHOA Lillie
1514	♦PATINO R
1520	♦SHERMAN Charlotte
1524	DEGUZMAN Gerardo B
1525	♦RICO Roberto
1527	MONTANCES Leonie
	♦MONTANCES Tito
1528	WATSON Tommy
	♦WOMACK George
1529	♦POTTIER Janet
1531	XXXX
1532	XXXX
1533	XXXX
1536	♦FLORES Juan
1540	♦COOPER W L
1600	XXXX
1601	♦ALVAREZ Jose
1609	♦VALDIVIA Alfonso
1612	♦BIS Alfredo M
	♦BIS Edna
1613	♦YANEZ Fabian
1619	♦SERRANO Jose R
1621	♦CERVANO Edgardo
1624	♦FORD Melvin
1629	♦MARTINEZ Albert Jr
	♦MARTINEZ Lorriana
1630	XXXX
1700	XXXX
1717	XXXX
1720	MENDOZA R
1721	FARIA Manuel
1722	♦JIMENEZ Ramon
1723	♦PHILLIPS James
1726	♦PEREZ Arturo
1734	XXXX
1735	♦GEPHART Marion
1738	♦MAGARINO Jons
1743	XXXX
1744	♦LEE Yuet Ying
1745	XXXX
1748	XXXX
1751	♦OCHOA Jesus Jr
1754	DUNN Elizabeth C
1755	♦GARCIA Vidal
1800	XXXX
1807	SMITH Robert B Sr
1808	♦LEIVA Felipe
1811	XXXX
1813	♦LEWIS Clinton
1814	♦HALL Ronald
1817	♦LINDSEY Hattie
1900	RUGGIERO Oscar
1901	♦LIVINGSTONE C
1909	XXXX
1912	♦BAUMGARDNER Eve
	MOORE Phoebe
1913	♦SEGOMARSINO Jos
1914	♦PETERS Shannon
1916	♦JOHNSON Bud
1919	HASKELL Don
1922	♦SANCHEZ Jaime
1923	♦MCCOLLUM Joseph
1929	♦CORDOVA Sally
1930	♦LOERA Pedro
1935	♦HUNT Leland
1938	♦ALMEIDA Antonio D
1953	READING David
	♦SWEENEY Mary
2000	XXXX
2001	♦BARAJAS Javier
2002	♦TENORIO Roberto
2004	♦PENA Jose
2005	XXXX
2010	♦MAGANA Victor
2011	XXXX
2015	♦NEAL Eleanor
2019	♦GOMEZ Benito
2020	♦MEYERS Kenneth
2024	XXXX
2028	♦SAE Chao Chiem Y
2100	XXXX
2101	XXXX
2109	♦RAMIREZ Julio
2110	♦MOCINO Alejandro
2112	GARCIA Pedro
	♦PLANCHON Terese
2115	BATTON Emmett
	BATTON Paulina
2122	♦MORA Benjamin
2132	♦GOMES Tony
2133	XXXX
2201	♦LUTTERMAN Lela
2205	♦FERRINHO Marga
2206	XXXX
2207	♦PLANCHON Paul
	♦PLANCHON ROO
2208	XXXX
2210	♦MIDENCE Maria E
2214	♦RODRIGUEZ Jose
2215	XXXX
2218	♦ALL CAR REPAIR
	ERDOGAN Ahme
2316	♦REED Leroy
2318	FUQUA Leatrice
2326	SAETEURN Naic
2332	NGUYEN Vinh
2344	♦TORRES Ignacio
2345	XXXX
2356	♦DELA Juan
2358	♦RUSSELL Carolyn
2364	RUSSELL Kenbo
	♦SEVELL Walter
2377	YBARRA Frank
2419	XXXX
2428	♦HITZENHAMMEI
2431	♦HOF Victor

_ SOBRANTE, CALIF 1803

D#	COOL Joel	222 6200 +0
D#	COOL Joel	222-8362 7
D#	CCIII Nancy S PHO	223 4112 7
D#	*DEAN BETTY TAX SERV	222-1880
D#	DELGADO Reb	222-7070 4
D#	*ELECTARC SECURITY	222-0878
D#	*GOLDEN ST AWARDS	222-0333 +0
D#	KING Patricia Anne	223-2722 +0
D#	LIETZKE Alan	223-8001 5
D#	LYON Jeffrey	222-3716
D#	LYON Sarah	222-3715
D#	*SAN FRAN EXMNR DEL	223-8268 +0
D#	STELLE David	223-7687
D#	STELLE Roddie	223 7687 2
D#	*STONES KNIT SHOP	223-4741 6
D#	TURNER Don	223-8642
D#	TURNER Kay M	223-8642
D#	VANNESS Doise	222-2930 +0
D#	*WALNUT ASSOCIATES	222-1948 9
D#	WONG Jan	222-2621
D#	WONG Tom	222 2621
•	6 BUS 16 RES	6 NEW

LSTON AV 94602 AKLAND

700	SACRAMENTO Catarino	530 0208
701	XXXX	00
705	XXXX	00
707	XXXX	00
710	XXXX	00
714	TANG Hoy Yu	530 7160
715	SEXTON Grellen H	530 8501
720	HANK Dean	482-2784
	HANK Jeff	482-2784
721	XXXX	00
726	CHEUNG R	531 2373 +0
727	JOHNSON Ann	482-3185
	JOHNSON Donald	482-3185 7
738	XXXX	00
739	YOKOMIZO M	530-7850
744	SILGE Martin	530-5460
745	*HESED COMMUNITY	482-8573 9
750	XXXX	00
751	XXXX	00
755	OLKOWSKI Edw M	531-6949
757	BROWN Geo A	530 9181
757	JALER D K	530-6074 5
763	SAPIR Leah	530-5142
	SAPIR Morris	530-5142
800	XXXX	00
801	XXXX	00
806	XXXX	00
807	BRODY Joel R	531-6566 5
	VANPETTEN Melani	531-6566 5
814	XXXX	00
815	XXXX	00
822	NTOSHO Kazuko	530 8608
823	HIRSCH Michael	482-1452
827	XXXX	00
835	XXXX	00
839	XXXX	00
840	XXXX	00
900	OLSEN Harold	482 5510
909	MCINTIRE L	530 7602 7
910	XXXX	00
911	VOHNAGELGEN Mimi	530-5035 9
	VOHNAGELGEN Owen	530 5035
918	LOW Gregg	482-5335 9
	*PINNACLE CONSTR SRV	531-7307 +0
	SHEPARD Jim	482-5335 9
923	XXXX	00
926	FISHMAN Neal	531-8020 9
928	XXXX	00
930	XXXX	00
934	XXXX	00
935	HATFIELD Morris F	530 4731
936	CUTLER Neil	482 4363 +0
938	XXXX	00
940	XXXX	00
941	MCLEAN Bruce W	530 7347 +0
949	LOWENTHAL Terry	482-4223 +0
600	XXXX	00
001	NELSON Joshua	482-1854
	NELSON Larry E	530 6814
	NELSON Noel	482-1854
009	XXXX	00
015	FRIED William H	531-2237 +0
018	SALT Floyd	530 2676 1
021	SCHMIDT Richard R	530 8171
024	WESTOVER M	482-0133 9
027	SCHOWALTER Elly	530-2937
	SCHOWALTER Fred	530-2937
	SCHOWALTER Fred	530 0947 8
030	SAMUEL Josef	530 6660
033	SMITH Donald F	530 5399
036	LEONG Laurence R	530-1896
041	XXXX	00
•	2 BUS 10 RES	6 NEW

LSTON CT 94602 AKLAND

16	KRAUS Fred J	530-1856
17	XXXX	00
21	XXXX	00
26	XXXX	00
•	0 BUS 4 RES	0 NEW

L TORO RD 94501 LAMEDA

100	BUHAIN Barry	523-4928 +0
	BUHAIN Ellen	523 4928 +0
102	RISPER Lee	769-9563 6
104	FREEBORN Dwayne	521-7969 9
	FREEBORN Susan	521-7969
106	PAPULIAS D	769-0419
	PAPULIAS J	769 0419
108	WILLIAMS Jerry	769 8692 +0
117	XXXX	00
•	0 BUS 9 RES	3 NEW

L TORO WAY 94564 INOLE

1656	XXXX	00
1659	BURDLCKI David	724 9673 9
1666	ANDERSON Fred G	724 1624 3
1669	XXXX	00
1678	WANSICK Don	724 5966 +0
1679	GOMEZ Alfred D	724-4827 3
1688	XXXX	00
1689	XXXX	00
1696	XXXX	00
1699	XXXX	00
1717	SORVETTI J J	724 2726 3
1757	MAITRE Jean J Rev	724-3681 6
1767	XXXX	00
•	0 BUS 13 RES	1 NEW

ELVERTON DR 94611 OAKLAND

6650	*DATA SALES CO	339-9800 8
•	1 BUS 0 RES	0 NEW

ELVESSA 94605 OAKLAND

10705	JONES Kimberly	638 1218 5
10710	XXXX	00
10800	JUNIEL Lawrence	562 6909 9
10801	TOMPKINS Rosemary	568-3832
10833	RHEA Linda	562 8057 +0
10900	XXXX	00
10901	KEY Leonard	562-5330
10920	XXXX	00
10950	PENDERGRASS B Jr	638-1146
10980	XXXX	00
10985	XXXX	00
10995	BATTEUX E W	638-1123
11135	CUDDYRE P J Jr	638-7879
11151	BUNN Leroy W	638-5929 1
11160	XXXX	00
11177	BROWN H D	632-8476
11210	*ALPHA EQUIP CO	562-8102
	MILLER Lawrence E	562-2322
11250	CAMPE J Henry Jr	562-7150
11255	GOINES Mark	632-3133 +0
11266	XXXX	00
11282	XXXX	00
11310	TAYLOR Jack B	632 0388
11330	WREN Helen	635 0788 9
11375	GINN Ora	635-0307 7
•	1 BUS 24 RES	2 NEW

ELVIRA PL 94546 CASTRO VALLEY

ALSO SEE EAST BAY DIRECTORY

4350	XXXX	00
4351	BROWN Heber	357-0567
•	0 BUS 2 RES	0 NEW

ELWOOD AV 94610 OAKLAND

300	*SECOND SIGHT CORP	839-0497 +0
307	HURLEY A E	834-9346
	PARKINSON John	834-9346 4
308	XXXX	00
310	MORA Vincent	444-3023
312	XXXX	00
316	XXXX	00
320	XXXX	00
324	DANA Elizabeth	763-1684 4
328	XXXX	00
332	XXXX	00
333	XXXX	00
336	XXXX	00
342	MADANY Roland G	465-6942 6
371	XXXX	00
373	XXXX	00
375	MOYAL Miriam M	465 2228 6
	MOYAL Rina R	465-2228
379	CAMPBELL Dianne	444 0762
	CAMPBELL Harold H	444-0762
385	STEWART L	268-7848 +0
	STEWART R	268-7848 +0
401	XXXX	00
403	XXXX	00
407	ADAMS Jack M Jr	836 2606
419	HAFFE Sydelle	763 6753 5
	WARD David	763 6753 5
420	BENSON S	444 8653 3
	JANNER Marlene	444-8653 2
423	XXXX	00
425	LIPPERT Cristiana S	444-3769 2
429	AIKELE Mark	465 1952 6
	AIKELE Mark	465-5725 9
	TOUSEY John W	465-1952 4
430	XXXX	00
433	DEROSIA Geo E	834-7926
437	HOWARD Ellen	451 3798 8
438	XXXX	00
441	XXXX	00
444	OW Mitchell	834-9051 +0
445	FULMER Gary L	832 5484
446	BACH C	834-7227 +0
448	XXXX	00
451	XXXX	00
452	CHAVEZ G	839 5836 9
	*HASSLER WM M ESQ	836-0692 +0
462	BAKER W Perry	832-8643
	*GOLDEN ST APPRAISRS	839-5327 8
	*MERRITT RSDNTL SERV	444-3632 8
465	GONZALES Alberto	763 8515 4
	HORN K L	452-3177 4
485	DONALDSON Michael R	834-2718 4
495	*COFFEE CORP	763-4409 +0
	TORSIELLO Peter	465-1557 6
•	5 BUS 49 RES	7 NEW

ELYSIAN PL 94605 OAKLAND

1	XXXX	00
5	IRVIN Frank E	635 1519
6	PETERSON Delmont	562-0889
10	FOX Jas V	635-3642
•	0 BUS 4 RES	0 NEW

ELYSIAN FIELDS DR 94605 OAKLAND

21	SPITZEL Albert	635 7814
22	FIORE Jack F	638-8626
29	KISER James M	635-7446 +0
	KISER Lone A	635 7446 +0
35	XXXX	00
40	XXXX	00
41	BUTLER Thomas A	638 1075
45	WOODROME B L	568 6810
48	XXXX	00
52	INGRAM Crystal	638-4303 8
70	FRAMSTED B O	638 0907
73	XXXX	00
74	FERREIRA D L	638 1711
77	XXXX	00
78	XXXX	00
81	XXXX	00
82	SATTERTHWAITE L H	635 8792
86	XXXX	00
90	XXXX	00
94	XXXX	00
98	CAPERS Joe	638 0301 +0
	CLARK Jason	635 9831 +0
101	SIMPSON A	569-1231 9
102	NEPSTAD Gary	430 1595 7
108	TASHJIAN E P	635 8458 9
115	XXXX	00
125	DITMER D M	569-1872
130	XXXX	00
133	STARKS Fred L	638-6335
145	XXXX	00
168	XXXX	00
180	XXXX	00
183	WILLIAMS Donald	635-0972 +0
190	WATERS Stephen	562-2492 9
199	SAUNDERS Calvin	568 8283
200	WHITTAKER Abe	632-3241 3

ELYSIAN FIELDS DR 94605 CONT

201	XXXX	00
230	HARMON Gloria	632 3225
	HARMON H Mahlon	632 3225
248	XXXX	00
251	XXXX	00
259	MOORE R E	568 4478
260	XXXX	00
265	BARNWELL Linda	635 4750 9
	BARNWELL Stan	635 4750
270	XXXX	00
271	XXXX	00
279	MANNETTE Wm A	569-2230
280	XXXX	00
287	XXXX	00
290	XXXX	00
298	XXXX	00
299	SATTERFIELD Frances	568 1577 6
301	XXXX	00
310	XXXX	00
311	MIMS B	632 2952 5
320	CORREIA John W	638 7808
321	XXXX	00
330	XXXX	00
331	FARLEY Raymond M	562-5054
339	XXXX	00
340	XXXX	00
347	HENDRICKS Clinton	633 1698 6
350	KOEPPLR Jas B	635 5143
355	XXXX	00
360	XXXX	00
363	GOLSON Alfred P	569 4110
380	XXXX	00
390	DODSON Frank	569 0300
	DODSON Lois	569 0300
	WRIGHT Doris	569 0305 9
398	XXXX	00
400	*MEYER COMPANY THE	569-8600
	MEYER Ezra	635 9097
401	PHILLIPS Mickey L	568-4766 3
422	XXXX	00
435	XXXX	00
448	WOLFE I	636 9100 +0
500	XXXX	00
510	XXXX	00
520	SCOTT Wm J	632 6411
530	XXXX	00
540	THROWER Jewell	635 3817 7
550	MAUSZ Margo	568 4930 +0
	MAUSZ Margo R	568 6011 +0
560	BOLTWOOD J M	562 3088
570	XXXX	00
580	XXXX	00
590	GORDON Lonnie Jr	568-6015
	*WESTRN PUBLISHING	568 1036 +0
600	XXXX	00
601	XXXX	00
610	MCNELY Warren	630 0951
•	2 BUS 91 RES	3 NEW

EMBARCADERO 94606 OAKLAND

105	*MIGHAL INTL CORP	465 3344 +0
	*ROBERTS RUD MFCC	465-3344 +0
	*WASTE CNSLDTN&DSPSL	839-5006 +0
	*WESEX	465 6696 +0
	*WEST CST BUYING SRV	465-6696 +0
308	XXXX	00
321	*PAC DRY DOCK&RPR CO	893-7020 5
325	*OAKLD STROKES	893 6877
361	*CAMPBELL M D	465 1093 9
	*FAY ROLLOND F INC	465-2527 9
	*GLASS GUYS THE	235-1400 0
	*GOLDEN ST DIESL MRN	465 1093 9
	*GOULD LORNE E	465-2527 9
	*INTL CARGO GEAR BUR	465-2527 9
	*LALLY R J CAPT	465-2527 9
	*TAURUS MARINE	465-7050 +0
	*UWE JAECKEL INC	268-1776 9
364	XXXX	00
380	XXXX	00
400	XXXX	00
401	XXXX	00
1578	SHERMAN H	452 1111
475	XXXX	00
485	XXXX	00
490	XXXX	00
499	BUILDING	
	*BOARDWORKS	832-2228 3
	*CLEMENS C FAUXREAL	839 6809 6
	*CONNERS JAMES	835-4825 +0
	*COURTLAND DESIGNS	839 6886 6
	*DIKENDEN ENGRAVERS	836 2023 6
	*FELDENHEIMER THOMAS	834-7901 2
	*FIELDHOME CORP	834-7900
	*FIELDHOME PDO	834 7900
	*HENSON DOLLIE	834-7907 6
	*HILL JAMES T	893-8535
	*INSIGHT DESIGNS	832-2218 8
	*PORITSKY S M	763 7781 4
	*SHAMROCK MARINE	839 0461 4
	*SILVA E A	763-6752 2
	*SILVA E A	763 3249 8
	*SILVEIRA J W CO	834 9810 2
	*SILVEIRA J W DVLP	834 9811
	*SILVEIRA J W INVST	834-9814
	*SKYLINE MOTORS	834 9813
	*SMITH DENNIS	268-1229 5
	*SNYDER BILL	271-0320 9
	*STROMQUIST EBEN	893-8869 3
	*TOGUS CO	835 4452 8
	*WENNERSTROM JUSTIN	893-8635 2
	A *M&M DRLLNG&SHRNG	444 2034 7
499		
555	*WESTRN ECNMC DEVLP	268-8107 5
601	XXXX	00
603	*PHILBRICK DON BOAT	893 9443 +0
625	XXXX	00
639	XXXX	00
845	*ENGINEERED STRUCTRE	893-4734 +0
	*STAY COLD MFG CO	893-4734 +0
801	*LIQUID CARBONIC CRP	451-4100
1000	APARTMENTS	
	BLAKE Steven W	832-7305 +0
	CARRARA Leon	763 1632 9
	DAVIS Miles	465-6938 2
	GREEN Ric	465-2246 +0
	*INVESTMNT SECURITY	465 3087 +0
	OYSTER Reef	836 2519
	SANDS Roger	465 0938 2
	STOREK Glenn A	832 4120 4
	VICK Stephen J	839 4993 3
1000		
1103	*CAPRI RESTAURANT	839 4800 2
1107	XXXX	00
1111	*ARK THE	893-6900
1116	XXXX	00
1155	*BOAT&MOTOR MART	839 0673 5
	*INTEGRE MARINE LTD	465 6060 9
1211	*BARCLAYS SEAFOOD	261 3287
	*HUNGRY HUNTER	261-3287 4
1221	XXXX	00
1285	*BAYLINER BOATS	535-1101 +0
	*SKI CHALLENGERS	535-1101 +0
	*SPECTRUM BOATS	535-1101 +0
	*SUMMIT MARINE CHTRS	535-1101 +0
1295	DIFFENDERFER John	533 7418 7
	ELLIS William	534 3545 +0
	HAAS Bryan	532 4227 +0
	HAAS Sandy	532 4227 +0
	HANSON Steven E	533 6126 2
1301	*GANGPLANK COFFEE SH	533-8642 +0
	*HARRISONS MARINE CT	436-0212 8
	SEA Ray	436 0212 +0

EMBARCADERO 94606 CONT

1307	XXXX	00
1311	XXXX	00
1313	XXXX	00
1311	XXXX	00
1363	*BOAT PLACE THE	536 0134 8
	FRUEH Fred	261 6633 7
	*MADDEX MARINE MKTNG	261 0889 5
	*MAJESTY MARINE	436-4863 9
	*STALLION YACHT SLS	436 4863 9
	*THE BOAT PLACE	536 0134 8
1441	*PAC DRY DOCK&RPR CO	839 4020 2
	*POTOMAC	261-1440 4
	*YACHT POTOMAC	261-1440 1
1601	XXXX	00
1701	XXXX	00
1755	XXXX	00
1759	XXXX	00
1801	*APPLE INN	436 0103 7
1817	XXXX	00
1820	*MACBALL INDUSTRIES	534 0274 1
	*MCBALL INDUSTRIES	534-0275 7
	*WEST CST LAMINATING	534-0944 1
1822	*WILLMARK SCRTY INC	532 6260 +0
1830	XXXX	00
1831	XXXX	00
1840	*A R M S A	436-4725
	*AUTONNIC RESEARCH	436 4725
	*CONSTRN SV INS AGCY	534 2000 5
	*CONTRCTRS LCNS INFO	532-3600
	*ECONOMY BOND&INS SV	532-6001 +0
	*ILEX DEVLP CORP	532 2345 +0
	*LICENSE INFORMTN SV	532-3600 4
1841	XXXX	00
1851	XXXX	00
1853	*METRO YACHT CLUB	536-7450 9
1855	PARMELEE Sally	532 6694 8
	SESS Thomas H	261 8007 8
	WEST Bill W	533 3324 6
1865	XXXX	00
1900	BUILDING	
	*BAY AREA INTERCNNCT	261 4900 +0
	*CA ST AUTOMBL ASSN	436 3011 8
	*CARRIER AIR CONDG	536 5706 7
	*CARRIER AIR CONDG	536-5000 7
	*CARRIER AIR CONDG	536-5250 7
	*GILLES&NICORA ATTYS	436-5208 +0
	*HORTON MICHL J ATTY	261-0771 7
	*HORTON&WHITELEY	261-0771
	*LEWIS BROWANII&ASCTS	536-0500 7
	*POT BELLY DELI	436 4040 8
	*PROPERTY MNG SYSTEM	534-4700 +0
	*WEADON RHEM&ASSOC	536 4686 +0
	*WHITELEY ROBT ATTY	261-0771 +0
1900		
1924	XXXX	00
1931	XXXX	00
1935	XXXX	00
1940	XXXX	00
1944	*ERICKSEN ARBUTHNOT	534-8300 +0
1946	*FAIRHILL FOODS	436-8600 +0
	*G&C HOLDING CO	436-8600
	*GILLESPIE&ASSOCTS	436 8600 9
	*PAC INDMSN C OF C	536-1967 9
	*POLIS MRTG&INVST CO	436 0133 8
	*POTASH JEREMY W	261-1570 9
	*POTASH&CO PUB RLTNS	261-1570
	*RYAN THOMAS&ASCTS	436 3877 +0
	*WATERPACK CO	436-8600 +0
1950	XXXX	00
1951	DOYLE Thos	436 0342 3
	FRASER B	534 7906 +0
	FULLER Shawn	535 2673 9
	HAYTER W H	532 6631 6
	MCCANN Nancy	535 2671 9
	*WINGS SEA	534-0100 9
1960	XXXX	00
1970	XXXX	00
1969	XXXX	00
1990	XXXX	00
1995	*DOCKCAFE	532-7869 +0
	*PRODUCERS SEAFOOD	533-5314
	*U&G TRADING CO	533-0752 8
2000	*C P P PINKERTON	532-7711 9
	*CUSTARD INS ADJSTRS	436-0276 9
2100	*CAREER EXPO	436-3976 +0
	*CRAIG BRUCE ENTPRS	534 2110 9
	*GREAT LKS DRLG&DCK	436 0663 9
	*LINN N KENT ARCH	534 1331 +0
	*SONOMA PACIFIC CO	261-1843
	*STARCRAFT ROOF SERV	535 2580 6
	*SULLIVAN ASSOCIATES	535 2503 8
2400	*ATLANTIC LOBSTER CO	532-4477 6
	*GREAT ATLNTC LOBSTR	532-4477 6
•	118 BUS 61 RES	39 NEW

EMBARCADERO W 94607 OAKLAND

1	APARTMENTS	
	ANDERSON John W	268 8806 +0
	BOCKIUS Dick	893 7522 9
	BROOKE Kyle	763 4402 8
	DANIEL John E	832 0121 7
	DURR Paul R	268 8100 +0
	FLAMING L	835 4765 +0
	FORD John I	836 2621 +0
	HERNANDEZ Angelo	835 1728 +0
	HERNANDEZ Kim	832 2002
	HERNANDEZ Ramon	832 2002
	LIBRERO Ted	268-9792 3
	MATSUNO Reno H	839 6413 8
	SIEGEL Leslie	839 6413 8
	SIU David	835 7589 6
	SUTHERLAND J	761 3895
1		
3	APARTMENTS	
	ARGYROS George	268 0576 8
	BENEDICT Margaret H	835 2032 6
	BRADFORD Patty	834 4116 +0
	DENTON Jerry A	452 3034 9
	EUBANKS Bob	763 5280
	GRAY Robt B	893 5528 3
	HUDSON John	451 6144 +0
	JOHNSON Boyd A	763 9181 7
	LEWIS George E	893 1131 9
	LUCAS Dave	893-1477 9
	MOORE Kurt	763 6163 +0
	SHEM Bill	893 0509 8
	STROUD Michael T	465 4362 7
	WILSON Jim	451 5520 9
3		
5	APARTMENTS	
	ADAMS Bob	763 8464 +0
	BARBER Donald	465 4278 +0
	BARTH Theodore J	834 3817 +0
	BRELAND James	451 5683 5
	BRENA Raul	465 6240 +0
	FRELMAN Gerald R	763 7255 +0
	GORDON Stephen	839 0753 9
	HALLING Connie	834 9995 7
	HOFINGER Fred	451 6721 +0
	PEMBERTON G Hy	465 6240 +0
	ROSS Bronwen	465 4735 +0
	ROSS Michael I	465 4735 +0
	ROWE Kenneth	893 3286 9
	STAN Agatha	836 2041 +0
	SORENSEN Russell Jr	451 3093 +0
	SORENSEN Roberta	451 3093 +0
5		
7	PORTOBELLO CNDMNMS	
	ANDERSON Daniel E	465 6558 9
	ANDREASEN Al	465 1638 6
	BEEDE Jack H	836 0273 +0
	BRETT William	832 0338
	COSTA J M	272 0428 9
	CURRY J L	835 8761 +0

THE HAINES CRISS CROSS DIR

EMBARCADERO

EMBARCADERO 94606 CONT

45 XXXX 00
51 QUINNS LIGHTHOUSE 535-3090 3
53 XXXX 00
55 VICTORIA STN RSTRNT 532-1430
105 FORD MOTOR COMPANY 444-0300 3
107 //// 00
121 PAC DRY DOCK&RPR CO 893-1020 +5
325 OAKLD STROKES 893-6877 7
351 XXXX 00
364 XXXX 00
370 XXXX 00
380 IVEYS 00
LONDON STATION 451-7325 4
STEAK H BURGER 451-7325
384 BANK OF AM VERSATLR 273-5112 +5
LYAMA SAASSOCIATES 836-4726 +5
400 XXXX 00
401 XXXX 00
444 JACK LONDON INN 444-2032
449 XXXX 00
457B SHERMAN R 535-3286 4
461 STUDIO 33 832-4305 3
466 JACK LNDN INST PRNT 835-4373 3
485 XXXX 00
490 XXXX 00
499 BUILDING
BOARDWORKS 832-2228 3
CLOUD 465-2522 +5
COURTLAND DESIGNS 465-7782 +5
D&D TRUCKING 839-1996 2
FELDENHEIMER THOMAS 834-7001 8
FIELDHOME CORP 834-7900 7
GINN T 763-6949 +5
HILL JAMES T 893-6635
LYNCH THOMAS D 536-1124 +5
LYNCH TOM 835-4447 3
MARTIN S 763-6195 +5
MR BUILD 835-4447 +5
PORITSKY S M 763-7781 4
SHAMROCK MARINE 839-0481 4
SHEFFIELD ROBT 832-7864 9
SILVA E A 763-0505 1
SILVA E A 763-6782 2
SILVEIRA BILL J 835-9874 2
SILVEIRA J W CO 834-9810 2
SILVEIRA J W OVLP 834-9811
SILVEIRA J W INVST 834-9914
SKYLINE MOTORS 834-9913
SMITH DENNIS 268-1219 +5
STOFER CLAUDE 465-2522 +5
STROMQUIST EBEN 893-8669 3
WENNERSTROM JUSTIN 893-8635 2
WOOD TOYS&PLAY THNG 839-0191 4
A MAN DRLLNG&SHRNG 444-2034 2
499
555 WESTRN ECHNC DEVLP 268-8107 +5
601 XXXX 00
602 HUSHNG D BOAT RPR 893-5421 4
624 XXXX 00
639 METAL STUD FORMING 452-1578 4
645 METAL FRAMING DIV 839-0690 0
MIDLAND ROSS METAL 839-0690 0
BUDBRSTRUT 839-0690 3
901 LYQUID CARBONIC CRP 451-4100
1009 APARTMENTS
DAVIS MILES 465-6936 2
FOSTER BOB 465-4685 2
JOHNSON HEWELL 835-5858 2
LIBRERO MIGUEL 763-1739 2
MOSHER JOHN 839-4697 4
OYSTER REEF 638-2519 0
SAMOS ROGER 465-6936 2
STORER GLENN A 532-4120 4
VICK STEPHEN J 599-4093 3
YOUNG ANDREW 534-2104 4
1000
1103 CAPRI RESTAURANT 839-4800 2
1107 XXXX 00
1111 ARK THE 893-5900
00
1115 XXXX 00
1155 BOAT&MOTOR MART 839-0678 +5
OCEAN YACHTS INC 488-6060 +5
PINKUS BOB MARINE 839-5202 4
1211 BARCLAYS SEAFOOD 261-3287
HUNGRY HUNTER 261-3287 4
1221 XXXX 00
1285 B M W MARINE POWER 436-4647 4
1295 HANSON STEVEN E 533-8126 2
1301 GANGPLANK 261-1015 9
1307 XXXX 00
1311 EMPIRE SAILING 839-5300 4
1313 XXXX 00
1331 XXXX 00
1362 XXXX 00
1363 BELL MARINE 436-4663 4
LAND N SEA CRAFT 534-2628 4
LAND N SEA YACHT SL 534-2628 4
MADDEX MARINE MKTNG 261-0999 +5
STAR MARINE ELCTRNC 534-7827 +5
VIKING YACHTS 534-2628 4
1441 PAC DRY DOCK&REPAIR 839-4020 2
POTOMAC 261-1440 4
YACHT POTOMAC 261-1440 4
1601 XXXX 00
1701 GORDON A D CO 436-7556 4
REOM HARRY 261-9362 4
1755 DIGITAL MICROSYSTMS 532-3885 4
1759 CAMPBELL M G 533-7681 +5
GOLDEN ST DSL MRN 533-7681 2
1801 PIER 8 MOTEL 436-0103 4
1817 XXXX 00
1870 MACBALL HOUSTREA 534-0274 1
WEST COAST LAUNDTNG 534-0844 1
1822 ELLIS JAMES&ASC 436-0666 3
1830 BAY AREA CAB 843-9918 4
BAY AREA CAB 527-5000 4
BAY AREA CAB 5&H5 536-3066 2
BAY AREA CAB CO 536-3000 1
ELLIS JAMES&ASC 835-2007 4
1831 XXXX 00
1840 C W&W 261-5321 4
COMPUTER SCH OAKLND 532-3600 +5
CONSTRN SV INS AGCY 834-2000 +5
CONTRACTORS LICENSE 532-3600 4
LICENSE INFORMTN SV 532-3600 4
STANDARD BRSS FNDRY 261-5321 3
SUPPLEMENTAL SERVS 532-1239 4
1841 XXXX 00
1851 DON WILSON YCHT SLS 532-0747 2
EVANS RICHARD M 261-5992 3
MEHA EDWARD 534-8309 3
WILSON D YACHT SALE 532-0747 2
1853 ROSENDIN ELECTRIC 536-1007 3
1855 MARYLAND DANIEL MD 261-5262 4
MELTZER RICHARD 261-9767 4
1924 XXXX 00
1931 XXXX 00
1935 XXXX 00
1940 PROJECT DEVLP ABC 436-3737 +5
1942 BRENNAN&ASSOCTS 532-0122 +5
1944 ROEDINGER ONO THE 535-1076 +5
1948 COMPUTER SHARING SV 763-8318 +5
1950 XXXX 00
1951 BROOKS SAM L 534-9369 4
DOYLE THOS 436 0342 3
NELSON RON 533-4371 +5
WADE JAS R 532-1610 0
1960 XXXX 00
1970 XXXX 00
1989 XXXX 00
1990 XXXX 00
1995 DOCKCAFE 261-1502 4
DOCKSIDE FSHRMNS SV 534-0795 7
PRODUCERS SEAFOOD 533-5114 0
SANFRAN BAY FISHRMN 533-1357 +5
2100 SONOMA PACIFIC CO 261-1843 6

EMBARCADERO 94606 CONT
NO # FRATES KEN 533-3937 +5
★ 1 BUS 1 RES 23 NEW

EMBARCADERO COVE 94606 OAKLAND

SEE EMBARCADERO

EMERALD 94609 OAKLAND

4103 AMARAL ANTHONY 653-7386 4
JONNI 653-7386 1
WESTWOOD L 652-7247
4105A FORBATH TED 658-6484 +5
4106 SULLIVAN M 658-3394 2
4108 KAIPER BRUCE 652-6210 2
4108H STONE B 428-0238 0
4109 WARE J A 652-2900
4111 HABIGER EMIL K 653-4143
4112 BICKFORD ELINOR 654-9958 4
BICKFORD ELINOR 654-9648 4
4113 TAYLOR P 664-8599 1
4118 READ PAUL I 655-1903 3
4117 CRAMER D L 658-6051 +5
SMITH BOB 658-9051 +5
4118 XXXX 00
4120 DAMRON D A 654-4222 +5
WISHNER N T 655-1940 3
4124 APARTMENTS
BROWN M 655-2112 +5
COLLIN B 658-5911 +5
DEGRANT T 652-2033 +5
4 DELGIORGIO EDITH 655-1128 9
LABEAUVE C 653-3611 4
NORMAN FREDRIK 654-3216 +5
4124
4126 XXXX 00
4127 SANDERS WM S 864-6084
4132 XXXX 00
4135 STAATS HARVEY 856-3952
4139 SANCHEZ FRANKLIN 856-4652 6
4140 XRIEGER L J 653-9470 2
ORSHAN C L 653-9470 2
4145 XXXX 00
4145 MCGUIRE THOMAS M 655-3271 4
4148 HITCHCOCK J 654-5763 2
4151 JACKSON EUNICE A 652-5912 4
OCONNOR MYRON J 652-4108
WALLSTROM GEORGE 653-9901 +5
4155 ZIEGLER ERIKA 655-6624
4156 XXXX 00
4157 XXXX 00
4159 FORAN M P 652-8199 4
LANDE JOHN 652-8199 4
BRUNDAGE BARBARA S 655-2014 3
4161 XXXX 00
4163 XXXX 00
4164 XXXX 00
4165 XXXX 00
4165 XXXX 00
4167 ZECK ELIZABETH A 428-9010 +5
4168 JOLLY B 864-2522 0
4169 MARTHA MY DEAR 859-3388 +5
4170 XXXX 00
4173 VETTER JOHN 655-2617
4174 XXXX 00
4175 MOON L L 655-8390
4179 KIRKPATRICK MARVIN 658-7348
4180 INGRAM DAN 652-5754 +5
4183 EDWARDS JAS J 652-9909 4
4184 XXXX 00
4191 CATANGAY MICHAEL P 658-3066
★ 3 BUS 56 RES 12 NEW

EMERIC AV 94606 SAN PABLO

1311 ALVAREZ HUGO 232-1606 +5
1321 DINGUS IRON WORKS 234-5938
1401 BELCHER GLADYS 294-4814
1493 VAZ LUIS 237-2226 +5
1499 XXXX 00
1500 BALES K L 232-4545 +5
1501 FERREIRA MANUEL L 235-6656 8
1504 MALONE DELBERT L 232-0907 7
1505 SOUSA PEDRO 233-2744 0
1513 XXXX 00
1514 PATINO CONSTRUCTION 232-8131 9
PATINO REBECCA 237-6282 9
1520 XXXX 00
1524 FRAGA JOSE V 233-7845 8
1527 XXXX 00
1529 SORSTENG DEL 232-7775 7
1531 GOMEZ FEDERICO 234-2846 3
1532 CASTANEDA ROBERTO 234-8730 +5
1533 XXXX 00
1536 XXXX 00
1540 COOPER W L 233-3144
1600 STEVENSON KENNETH 233-5410 4
1601 ALVAREZ JOSE 237-3150 2
1609 XXXX 00
1613 XXXX 00
1618 MCQUINN SELDON D 233-8351 2
1619 SERRANO JOSE R 232-9440
1621 WALLER MARY 232-3636 9
1629 MARTINEZ ALBERT JR 233-4822
MARTINEZ LORRIANE 233-4822 0
1720 PEREZ MANUAL 237-6478 9
1738 MAGARRO THOS 235-9251 0
1743 XXXX 00
1744 FURLOW MARION 232-1080
1745 XXXX 00
1746 GARCIA MANUEL M 232-4460
1764 XXXX 00
1800 REANO JULIUS 232-5853
REANO VIRGIE 232-5853
1807 SMITH ROBERT B SR 233-5096 +5
1808 XXXX 00
1811 XXXX 00
1813 LEWIS CLINTON K 233-5591
1814 XXXX 00
1815 XXXX 00
1900 RUGGIERO OSCAR 232-6809
1901 XXXX 00
1909 CROW ARCHIE C 234-9303 4
1913 XXXX 00
1914 CAMPBELL T JR 232-6669 2
1918 JOHNSON BUD 236-1042 +5
1921 XXXX 00
1923 XXXX 00
1925 SANGENT H 233-1308 4
1938 ALMEIDA ANTONIO C 234-5426
1941 SCHRIMPSHER D C 235-8880 0
1953 READING DAVID 237-5645 2
2000 XXXX 00
2001 XXXX 00
2002 CARROLL CINDY SUE 232-2651 4
2005 CONTRERAS JESUS 232-0384 4
2010 XXXX 00
2011 AVALOS JUAN 238-8226 +5
2019 XXXX 00
2019 GOMEZ S O 233-0695 4
2024 XXXX 00
2029 XXXX 00
2100 XXXX 00
2101 DILLARD HERMAN 234-1050
2109 XXXX 00
2112 XXXX 00
2116 BATTON EMMETT 233-8163 8
2133 XXXX 00
2203 XXXX 00
2206 XXXX 00
2207 PLANCHON PAUL 235-1156
PLANCHON ROOFING CO 235-4056

EMERIC AV 94606 CONT
2208 RAMIREZ TRINIDAD P 236-6475 +5
2215 XXXX 00
2316 REED LEORY 236-0133 0
2318 XXXX 00
2325 HARP ALTA 234-7537
2332 MOORE GEO D 236-6641 4
2344 XXXX 00
2345 PEREIRAS CARPT CLNG 237-2047 +5
2356 XXXX 00
2385 ELMS MARK 236-6322 4
2393 RYNNING PAULA 234 3361 4
2411 XXXX 00
2419 CROSS WILLIAM A 235-8915 8
2428 XXXX 00
2431 RUNQUIST LETHA 237-5310
2500 JONES ELLIE 237-9668 +5
2512 BOYD GLENN W 232-1603 0
2522 ERDMAN THOMAS 233-2436 6
2525 XXXX 00
2531 KINDRICK ROY C 706-9291
★ 4 BUS 93 RES 10 NEW

EMERSON 94610 OAKLAND

3618 APARTMENTS
BANKS WM H JR 530-6517 1
COLLINS GARTH 531-4089 0
CRISMAN ROBT 531-9610 3
RYDOLPH HOWARD 530-0388 +5
WHITE RICHARD L 531-6141 2
3615
3622 MANEY JOHN JR 482-3875 8
3626 XXXX 00
3705 XXXX 00
3707 XXXX 00
3709 XXXX 00
3711 SORRO DANAE 530-2109 2
3718 XXXX 00
3719 APARTMENTS
BALFOUR J M 531-6741 +5
CHEUNG B 482-3927 3
FIELSCHMIDT JOSEPH 530-3381 3
LOVE R J 530-1479 4
NYQUIST M 531-9286 +5
3719
3755 STARK DAVID 531-6384 2
★ 0 BUS 18 RES 3 NEW

EMERSON 94703 BERKELEY

2001 XXXX 00
2008 BASTIEN B 845-7484 4
DAVIS ANDY 548-2454 1
LLOYD ED 848-6502 3
MILLER L A 848-6502 3
NAM D 644-3363 +5
2017 DINDERA S 841-6408 +5
2019 BIANCO DAVID 644-0493 +5
KAWAKAMI MARK 644-0493 +5
MARKUS RUSSELL 644-0493 +5
2021 XXXX 00
2022 BROWN CLARA M 848 0549 6
2025 FRANCISCO E BOND 548-7109 +5
HEDGE LENA 843-9163 0
TIDWELL LURELLA MRS 841-7973
2030 PARTEE ELIAS 841-9351 2
2033 XXXX 00
2036 XXXX 00
2037 MCKINNEY GEO W 845-5123
2042 KAPLAN JAN 548-1953 1
2043 XXXX 00
2044 XXXX 00
2048 PACE S 845-5666
2068 WAIGHT M 845-6790 2
PITTS GRAN R 549-9078 +5
2061 WILLIAMS EDW 845-1828
2068 XXXX 00
2085 BARRIENTOS JOHN F 548 3774
2068 TAYLOR NORMA JEAN 841-4729
2070 XXXX 00
2071 SHIPRUCK LES K 549-0287 3
WOOD J 549-0287 3
2075 BROWN STEVEN 849-3935 4
2078 COLLINS HENRY N 841-6541 9
COLLINS NANCY 841-6541 4
MALEK M L 849-3017 2
2080 XXXX 00

ZIP CODE 94705

2103 XXXX 00
2106 KIGBEY DAVID A 540-7186 7
2109 MARGEN PAUL H 549 2889
2111 LENT BARBARA 841-7682 1
2118 TAMBAKOS LOUIS 841-7682 1
2118 XXXX 00
2119% DAVIDSON P M 644-3462 4
2121 MACNAIR THOMAS 548-3603 4
2126 DELAPPE P 843-6148
2129 COOPER LYNN 848-4683 1
2130 XXXX 00
2132 BUSS RICHARD W 845-2641 +5
2137 APARTMENTS
BECK KENDELYN R 841-5668 7
CLOUER ROBERT 843-6701 9
CORNELL J 843-8049 1
KATZ ELI 548-0808 4
WORDEN SALLY 841-3584 2
2137
2140 XXXX 00
2141 BATCHELDER GERALD 843-6060 2
KESSNER LYNN S 843-6060 1
2143 XXXX 00
2144 XXXX 00
2147 APARTMENTS
CHUN KEUM S 841-3193 4
RAGLER M 644-0801 +5
SUI SHI I 841-2847 3
WU CHUANG CHUN 845-6052 +5
YEUNG SAULUN 841-0884 +5
2147
2148 XXXX 00
2154 ALLEN LINDA S 845-7277 +5
2168 MILLER GREG 548-8421
★ 0 BUS 67 RES 12 NEW

EMERSON AV 94525 CROCKETT

10 VALITON R A 787-1360
11 DEASON GEO 787-1245
30 WOODFORD W C 787-1460
40 XXXX 00
45 HOORENMAN W J 787-1692
50 AITA R V 787-2803
68 OUTMAN TIM 787-1848 4
★ 0 BUS 7 RES 0 NEW

EMERSON WAY 94610 OAKLAND

3765 BORAWSKI WM 531-6831 1
★ 0 BUS 1 RES 0 NEW

EMERY 94608 OAKLAND

4060 LYSNE RON 547-9228 4
MOBILE EQUIPMNT RPR 653-7085 4

EMERY 94608

4082 RONS BACK TIRE CENTR
★ 3 BUS

EMERY BAY OAKLAND

2 LORCES JOI
PRAN ARAI
REYNOLDS
8 MULHORN
16 YAMAMOTO
18 WEBSTER
22 ANDERSON
28 VILLA RICC
30 XXXX
34 XXXX
38 XXXX
39 FLASHMAN
40 XXXX
41 CHOW STE
42 SILVA RICI
45 PERSON C
46 NORLIONI
48 XXXX
57 FOX WALI
60 XXXX
62 PAC BEMI
63 XXXX
64 GREEN RI
GREEN RI
68 BLASDEL
86 WEST LE
70 TONER TI
72 ZEIDAN J
74 XXXX
76 PILLSBUF
78 XXXX
80 JONES T
85 SINGH R
86 GOLDEN
88 WOOD D
WOOD D
92 ASHLEY
94 SOONG M
95 LINDQUI
96 XXXX
★ 1 BUS

EMERYVIL

NO # ANDERS
NO # GREEN
NO # MORGA
NO # SMALL
NO # STOCK
★ 0 BU

EMMA DF

2586 PRIDGI
2589 ROTE
2590 SKELL
2594 XXXX
2595 XXXX
2598 XXXX
2601 XXXX
2602 MARY
2606 XXXX
2610 XXXX
2613 HEAR
2614 PROC
2618 DEUE
PERR
2619 PETE
2622 SCHI
SCHI
2625 WESI
2626 XXX
2630 HOW
2631 XXX
2634 FAIR
2637 XXX
2638 XXX
2642 XXX
2643 XXX
2649 FOS
2650 XXX
2654 LAU
2656 XX
2661 XX
2664 XX
2667 HAR
★ 0

EMPIRE OAKLA

9101 XX
9104 WA
WE
9115 X
9121 X
9221 X
9231 BR
9310 X
9321 AL
9322 RI
9401 GA
9404 RO
9411 LA
LA
9414 EI
9421 X
9506 A
9511 C
9521 I
9522 I
9531 S
9540 H
9541 D
9551
9556 E
9561 V
9606
9607
9614
9615
9621
9631
9632
9638
9647
9656
9665
9670
9671
9679
9704
9714
9715
9724
9734
9735
9745
9752
9765

94605 CONT

00
562-0776 8
00
838-3421 8
00
669-4110
00
569-0300 6
569-0332 6
632-2077 6
835-9097+9
568-4766 8
00
00
636-0800 6
569-5900
569-1412
568-0914
632-8411
00
00
562-0845
562-0945
562-3085 3
632-2800+9
00
562-9320 8
568-6401 6
638-0951
5 NEW

) 94606

444-2632 6
638-2844+9
452-1851 5
465-8092 6
838-8311+9
451-3477 8
465-0803+9
893-6789 8
832-0476+9
835-8356+9
465-0835 7
832-8693 8
832-0885 8
465-0835+9
835-5582 7
465-1068 7
444-9278 8
834-6734+9
465-3641 8
835-4119+9
839-3180 7
832-3244 7
836-3396 8
451-2417+9
465-0395 8
893-1467 5
465-8960 6
452-4020 8
783-5126 6
839-8311+9
835-1508 7
783-3895 5
465-2668 8
00
783-4126 8
836-0307+9
465-1330 6
839-4718 7
835-2625+9
444-2206 8
451-2324 6
783-5280 7
451-6840+9
783-2176+9
839-2144+9
783-4967 8
834-9783 7
834-1619+9
466-0706 6
839-9381 7
465-3183+9
893-0827 5
835-5322 8
451-8654 6
834-2084 8
465-4721 7
444-3647+9
835-5229+9

465-4400+9
444-3024 7
783-1036+9
834-6865+9
834-8581+9
444-8184 8
838-4327 7
465-0884+9
834-2198+9
783-5652 6
783-3826+9
835-8183+9
835-2518 8
783-3817 6
834-3476+9
465-1290+9
832-1770+9
834-1038+9
832-2849 6
783-3034+9
834-0967 7
783-6595 8
444-8051+9
451-9072+9

485-3079 8
835-0676+9
783-1689+9
783-4825 6
835-5959+9
893-8840 5
832-0338+9
834-8629+9
835-1218+9
783-6575 6
838-3082 7
835-5110+9
465-0236+9
451-7056 8
451-7986 8
465-2869 8
783-2739 6
465-3310+9
893-7052 8
465-2939 8
834-6477+9
838-3050 5

EMBARCADERO 94606 CONT

PIETRAS JOHN 444-8959+9
PRITCHARD LEON 834-4672+9
RAWLS KEN 835-6784+9
300 REDMON GENE 893-8051 6
STEINER PETER 832-5126+9
104 SWENSON J C 444-6010 8
300 WRIGHT J J 893-8376 6
7 8 XXXX 00
11... ...BUILDING
★ BACHARACH ALVIN H 893-8544 8
135★ BANKERS LIFE CO 836-4138 5
★ BARFIELD&CO 444-8858+9
★ CATO JOHNSON ASSOC 839-2711+9
226★ CUSTOM FINCL CORP 465-8282 6
225★ CUSTOM LEASING CO 465-8265 5
★ CUSTOM TRAVEL 465-8285+9
★ DANNA SAILING SCHL 261-3844 8
★ DON WILSON YACHT SL 444-8717+9
★ HARBAUGH ROBERT T 893-5063 5
220★ HURD MEYER MITCHEL 783-2121 7
★ KALDVEER PETER&ASC 839-1680 7
140★ KELLEY COLIN C 444-1778 6
★ MADSEN SVEIN LTD 834-1800+9
★ MEYER HERMAN C 783-2121 5
★ MITCHELL DANIEL L 783-2121 6
★ OWEN J A 834-2295 6
100★ PORTOBELLO 465-4900 5
100★ PORTOBELLO MARINA 444-8719 5
★ SVEIN MADSEN LTD 834-1800+9
202★ TRE FAC BROKERS INC 835-3210 8
★ TRIAD FINANCL CORP 465-1943+9
140★ WICKERSHAM JAMES 465-8686 6
★ WILSON D YACHT SLS 444-8717 5
11 ...
13★ BAY AIR MAINTENANCE 532-2321 5
14★ TAYLOR LEASING 534-5700+9
15★ RUSTY SCUPPER THE 465-0106 5
17 VAUGHAN WILLIAM E 532-1786 8
10★ BENJAMIN PAUL H 535-0182 8
★ DOBRIN MICHAEL PR 533-1688+9
19★ HERMANSKY JOHN 832-1500+9
★ JACKSON CAROLYN C 633-4787+9
★ RAHM ADVERTISING 832-1500 8
★ RESOR JAMES C 832-1500+9
★ STRAIN RICHARD A 532-1500+9
21 FOSTER SCOTT 532-6381+9
★ SAILORS WORKSHOP 533-4221 7
25★ SCHWAHL DONALD V 261-5000+9
27★ AUGUST BRENT K&CO 532-3215 4
29★ GAMERSTON&GRN LUMB 534-6464 8
31★ AITKEN JAMES B 836-1700 6
★ COUSTEAU AITKEN INC 836-1700 5
★ HAVILAND ASSC ARCHT 532-8888+9
★ HAVILAND PERRY A 532-8888+9
35★ BLUMENFELD MICHAEL 261-4100+9
★ DENT LARRY B 261-4100+9
★ FARROW HAROLD R 261-4100+9
★ FARROW SCHILDHAUSE 261-4100+9
★ PERLMAN SHERI L 261-4100+9
★ PLUTZIK ALAN R 261-4100+9
★ RENK THOMAS S 261-4100+9
★ WILSON LIONEL J 261-4100+9
★ ZIMMERMAN ALAN P 836-1100 4
37★ CANOY COTTAGE 834-0481+9
43★ SEA TRUCK APPAREL 534-1814 8
46★ TANK HOUSE THE 532-8488 6
65★ VICTORIA STH RSTRNT 532-1430 3
321★ MERRITT SALES CO 893-7020 4
★ MERRITT SHIP REPAIR 893-7020
325★ OAKLD STROKES 893-6577 7
361★ CAPITAL FLASHER CO 836-0851+9
★ CAPITAL SUPPLY CO 836-0851 8
★ FLASHER CO THE 836-0851
364 XXXX 00
380. ...BUILDING
★ A F T OAKLAND 836-0990+9
★ ALBERTS STEAKH BRGR 451-3925+9
★ AMER FED OF TEACHRS 893-0280+9
★ AMER FED OF TEACHRS 836-0990+9
★ C D S DISTRIBUTING 893-0280+9
★ CALIF FORTH OF TCHR 836-3760 8
★ CHIQUITA BRANDS 451-9717 4
★ COONEY STUDIO 451-8680+9
★ COUNTY SEAT STORES 834-3624+9
★ D G ASSOCIATES 836-2322 8
★ IVEYS RIBS&SPIRITS 862-1910 4
★ JOSES BARBER SHOP 444-0744 8
★ MOUSER ROBERT A 834-1315 8
★ NORTHN CALIF MARINE 836-4844+9
★ RAGDOLL ENTERPRISES 835-0368 8
★ SENTRY SECURITY SV 451-7325 4
★ STEAK N BRGR ALBERT 465-8172+9
★ TRANSMEDIA INC 836-0990+9
380 ...
384 XXXX 00
401★ KAISR SAND&GRAVEL 465-2345 6
444★ JACK LONDON INN 444-2032 4
★ MARLENES CATERING 465-0281+9
★ MARLENES COFFEE SHP 465-0281+9
448 XXXX 00
457 XXXX 00
481 HABLIG BEATRICE 465-7205 8
486★ DECORATIVE ARTS LTD 893-6394 5
485 XXXX 00
499 BUILDING
★ ALL CONTAINER SERV 451-0303 8
★ BAC ENGINEERING 832-2228 8
★ BARKER EDWARD C&ASC 465-1443+9
★ EAST TEXAS MTR FRGT 783-2790+9
★ FELDHEIMER THOMAS 834-7801 7
★ FIELDHOME CORP 834-7900 7
6★ HILL JAMES T 893-8835 2
★ MICRO DESIGNS INC 465-1881 8
★ MORGAN&MORDUS 444-2034 8
★ OBRIEN JAMES D 834-4953+9
★ PANCOAST RICHARD 834-3340+9
★ PETERS DAVID 832-5115+9
★ PETRANEK KENNETH 832-3967 8
★ SHEFFIELD ROBERT 832-7864+9
★ SILVA E A 783-8752 8
★ SILVEIRA J W CO 834-9810
★ SILVEIRA J W DVLPMT 834-9811
★ SILVEIRA J W INVSTM 834-9814
★ SKYLINE MOTORS 834-8813
★ SPANGLER K 835-8888+9
★ STROMQUIST EBEN 893-8869
499
555★ GOULD WALLY&CO 893-6869
801 XXXX 00
826★ PAC YACHT SALES 465-9800+9
YOUNG GENE D 465-9899 2
839★ CARA TRNSPRTN 451-4492 7
845★ SUPER STRUT 839-8690 4
★ SUPERIOR STRUT&HNGR 839-8690 4
901★ LIQUID CARBONIC CRP 451-4100
1000 XXXX 00
1103★ P B CONSTRUCTION 465-9640+9
1107 XXXX 00
1111★ ARK THE 893-6900
1115 XXXX 00
1135★ JOHNSON&JOSEPH CO 832-5420 4
★ MAR INDUSTRIES INC 832-5420
1211★ BARCLAY JACKS 261-3297 5

EMBARCADERO 94606 CONT

1295 XXXX 00
1301★ GANGPLANK 261-1016+9
1307 XXXX 00
1311★ SEAHORSE YACHT SALE 261-0600 6
1313 XXXX 00
1383★ STEVES MARINE INC 534-6700 3
1441★ CROWLEY LNCH&BOAT 839-4020 2
★ PACIFIC DRY DCK&RPR 839-4020 6
1601 XXXX 00
1765★ CALIF MILLING CORP 532-8630 6
★ DOMASCO BAKERS SPLY 532-8630 8
1769★ A 1 BOAT REPAIRING 532-8766
★ LANI KAI MARINA 261-8532 5
1817 XXXX 00
1820 XXXX 00
1830★ PAK WELL CNSMR PRDS 532-4936 6
1936★ POWER&SAIL ASSOCTE 534-1904 3
1937★ CHRIS CRAFT PARTS 534-1650
★ MARINE PANTS CO 534-1650
1950 XXXX 00
1951 GALLO STEVE 536-3064+9
★ GREEN LUTHER O 534-6484
MYERS GORDON 534-4883+9
★ SIGN BROKER THE 533-1208+9
1960 XXXX 00
1970 XXXX 00
1989 XXXX 00
1990★ FORTY PLUS CALIF 534-4154 2
1995★ BAYTRONICS CORP 261-0100 5
★ DOCK CAFE 261-1502 4
★ DOCKSIDE FISHERMN SV 534-0795 7
★ FISHERMENS OVLPMNT 533-5314+9
2100★ SONOMA PACIFIC CO 261-1843 6
NO #★ PACIFIC WEST CHEMCL 535-0889
NO #★ PINEAPPLE SAILS 444-4321 6
NO #★ QUINNS LIGHTHOUSE 536-2050 3
NO #★ RICHARDS SAILMAKERS 444-4321 8
NO #★ SAILBOATS INC 536-6760 8
★ 149 BUS 135 RES 102 NEW

EMBARCADERO COVE 94606 OAKLAND

SEE EMBARCADERO

EMERALD 94609 OAKLAND

4103 WESTWOOD L 862-7247
4105A GOLDBERG B E 658-1729+9
4108½ SPRINGWATER J 655-0829+9
4109 IMRIE MARGERY 652-2900
4111 HABIGER EMIL K 653-4143
4112 XXXX 00
4113A MESSER PAMELA A 655-2937 9
A WEIMER RICHARD P 655-2937 8
4116 XXXX 00
4118 XXXX 00
4120 BENNETT B M 654-3078 7
FLACKUS FANNIE H 658-6243 3
ROBINSON E A 654-7983 4
TREISMAN R E 654-8077+9
4124.....APARTMENTS
DELGIORGIO EDITH 655-1126+9
GARRETT J 428-0240+9
1 OCONNOR MARY 658-3693 2
8 SHELDON P 653-4554 6
5 SINCLAIR A 428-1725 6
11 STERN D W 658-3334 8
5 WATKINS ALICE 652-8966 6
4124
4125 GIOVANNINI E 655-5018 5
4127 SANDERS WM S 654-6084
4132 REED DORLISTA 655-3896+9
4135 STAATS HARVEY 655-3952
4139 SANCHEZ FRANKLIN 865-4662 6
4140 KAIPER BRUCE 652-6210 6
4145 BROWN K 654-8608 7
4148 KASSOF SHERMAN 652-3917+9
KEMP N 654-1651+9
PISANI ROBERT 658-0500+9
4148 SULLIVAN M 658-3394 8
4151 APARTMENTS
EICHELBERGER D 658-8899+9
3 HENLEY E M 658-3378 8
JOHNSON M 652-7376+9
5 OCONNOR MYRON J 652-4109
WILSON JIM 654-8745+9
4151
4155 ZIEGLER ERIKA 655-6524
4156 XXXX 00
4157 XXXX 00
4159 FORAN M P 655-1796 7
LANDE JOHN 655-1796 8
4161 SCANTLEBURY J 653-8964 8
4163 EARLS STEVEN 658-8838 8
4164 WOLFE EILEEN 658-0806+9
A COSTELLO K 658-5535+9
A MASON P 658-5535+9
4165 KANTER ELLIOT 655-0843 7
4166A STOVER JEFFREY 654-9848+9
B CRAIG S 653-5018+9
4167 BRIGHT G 653-4699+9
4168 JACKSON CATHY 658-1982 8
4169 GROSSMAN WILLIAM 653-4676+9
SHANKEN LEVIA 653-4575+9
4170 VANDYKE DIANE 428-2655+9
A FORD F A 655-7582+9
4173 VETTER JOHN 658-2617
4174 XXXX 00
4175 MOON L L 655-8390 4
4178 KIRKPATRICK MARVIN 658-7348
4180 DILLINGHAM E MAY 652-2934
4183 XXXX 00
4184 XXXX 00
4191 CATANGAY MICHAEL P 658-3095 2
★ 0 BUS 64 RES 22 NEW

EMERALD AV 94577 SAN LEANDRO

821 PICCARELLI E 483-8084 3
824 VIEIRA GILBERT S 483-3183+9
827 PENNYCOTT ANTHONY 483-4937
830 BENSON ED 483-0620
835 MORANDO JAS 357-9204 7
840 SIMPSON R N 352-4027 4
843 KING JOHN D 483-2579
846 TEMPLE VAL E 483-4663
955 XXXX 00
958 GILLASPY DICK 483-3059
962 FAUSTINA EDMOND WM 483-4292
965 XXXX 00
966 MORAIS CARRIE 483-4484
971 TEMPLE MYRON 483-4671
975 SILVEIRA A P 483-4789
976 XXXX 00
979 XXXX 00
905 XXXX 00
905 WOLF S FRANK 483-4097
909 CORTI GIANFRANCO 352-4999 7

EMERALD AV 94577 CONT

910 XXXX 00
927 SMITH L O 480-1775
★ 0 BUS 22 RES 1 NEW

EMERIC AV 94806 SAN PABLO

1311 XXXX 00
1321★ DINGUS IRON WORKS 234 6936
1322 CLEVELAND MARGARET 235 5126 8
1327 XXXX 00
1328 FRAGA JOSE 237 0757 5
1329 PONCE JOS 234 5067 2
1332 CAMPBELL JAMES 237 8014+9
1334 EBERT GERALD E 234 2301+9
1336 JACKSON LEWIS 233 4543
1400 DUNN MARY M 237 6736 4
1401 BELCHER GLADYS 234 4814
1404 XXXX 00
1412 XXXX 00
1414 XXXX 00
1420 XXXX 00
1491 BEITER ABBIE 235 3416 3
1493 XXXX 00
1497 BRANDLEY MIKE 236-8622+9
1500 BALES KENNETH 234 2389
1501 FERREIRA MANUEL L 235-5956 8
1504 MALONE DELBERT L 232-0907 7
1513 XXXX 00
1514★ PATINO CONSTRUCTION 232-6131+9
PATINO REBECCA 237-6252+9
1520 XXXX 00
1524 FRAGA JOSE V 233-7646 6
1527 XXXX 00
1529 SONSTENG DEL E 232-7775 7
SONSTENG SHARON L 232-7775 8
1531 DANGERFIELD HARRY 234-2652 3
DANGERFIELD ROBBIE 234-2652 3
1532 XXXX 00
1533 XXXX 00
1536 XXXX 00
1540 COOPER W I 233-3144
1600 BETTENCOURT A M-MRS 233-2934
1601 XXXX 00
1609 REIS FRANK 235-9082
1612 MCQUINN SELDON D 233-8351
1613 XXXX 00
1618 MCWILLIAMS L 235-2006 6
1619 SERRANO JOSE R 233-9440
1621 ANDERSON A 233-0217+9
MILLER MARY 232-3895+9
1629 MARTINEZ ALBERT JR 233-4822
MARTINEZ LORRIANE 233-4822
1630 MIRANDA RAFAELA 232-0132 7
1700 XXXX 00
1701 XXXX 00
1705 GREEN GARY 233-0507
1717 CAMPBELL L 529-1596 7
1720 PEREZ MANUAL 237-6476+9
1721 XXXX 00
1722 XXXX 00
1723 XXXX 00
1725 RILEY KEITH A 232-5050+9
1734 BARNES HILDA 233-3121
1735 XXXX 00
1736 MALDONADO IGNACIO 236-8091 8
1743 GOODRICH GREG 235-9578+9
1744 FURLOW MARION 237-1060 3
1745 XXXX 00
1748 GARCIA MANUEL M 232-4460
1754 DANIELS DARNELL 233 5920
DANIELS MARIE 233-5920
1800 REANO JULIUS 232-5853
REANO VIRGIE 232-5853
1807 XXXX 00
1811 ELLIS PATRICIA 237-8798+9
1813 LEWIS CLINTON K 233-5591 5
1814 XXXX 00
1816 MCCULLOUGH M D 236-8382+9
1900 RUGGIERO OSCAR 232-6909
1901 XXXX 00
1913 BROWN ROSE 237-0515+9
1916 XXXX 00
1923 BALLY GEORGE A 236-9443 8
1935 SARGENT HELEN 233-9251 3
1938 ALMEIDA ANTONIO D 234-5426
1941 TRAVIS MEGAN 234-6391+9
1953 SWEENEY MARY L 237 4503 8
2000 HEDGES GINNY 237-8509+9
2002 BIGNESS HERBERT 233-9263+9
2005 SOLIS MARIA V 233-0695
SOLIS PEDRO 233-0695
2010 MINYEN ALAN 233-9940+9
2011 WORTHLEY C M 232-3203 4
2024 XXXX 00
2028 XXXX 00
2100 XXXX 00
2101 DILLARD HERMAN 234-1050
2109 REYNOLDS JONES E 233-3772 5
2110 XXXX 00
2112 FERNANDES AVELINO 235-2137+9
2115 BATTON EMMETT 231 8181 6
2133 XXXX 00
2203 XXXX 00
2206 CAULK BERTIE 233-1789
2207 PLANCHON PAUL 236 1158
★ PLANCHON ROOF&SDNG 236-4056
A LOW WARREN 234-9874
2208 XXXX 00
2215 BROSSARD DAVE 234-3865 8
SHOTT DANNY 234-3865 8
2316 GRAY JAMES H 233-3844+9
2318 HANCOX FLORENCE 235-7744 5
2326 HARP ALTA 234-7537
2332 XXXX 00
2344 HARTWICK FREDERIK 237 5461 8
2345 RODRIGUES BENTO 232-4745
2356 XXXX 00
2358 XXXX 00
2377 MOORE J 234 5193 8
2419 CROSS WILLIAM A 235-8915 8
2428 XXXX 00
2431 RUNQUIST LETHA 237-5310 4
2500 XXXX 00
2512 REED LEROY 236-0133+9
2522 FRDMAN THOMAS 233-2436 8
2526 XXXX 00
2531 KINDRICK ROY C 236-9291 2
★ 3 BUS 118 RES 20 NEW

EMERSON 94610 OAKLAND

3616 APARTMENTS
FONG D T 482-3018+9
FONG L M 482-1154 8
GRIEGO BERNARD 482-5860 8
7 HILL F B 482-1747 6
9 SIE YWAI OI 482-4769 6
3616
3622 MANEY JOHN JR 482-3975 8
3626 SNEED LARRY 482-1395+9
3705 LITKE JOEL-RABBI 482-1726 6

CASTRO VALLEY

ECTORY
352-1644+6
\ RES 1 NEW

UAKLAND

452-4636
UD
835-5191
444-3023
832-4533
CEL A 452-0243 5
444-5667 4
00
9 R HRS444-8319
00
H 451-6418 4
IANE 444-5242 5
00
893-8846
763-5663 4
451-4705 5
.OLD H 444-0762+6
444-8624+6
00
J J JR 832-5695 4
I JR 836-2506
.NNETH A451-7679
832-8676 3
00
) 832-7476
832-0129
00
E 832-7926
444-1556
836-3792+6
00
/ 832-1986+6
L 832-5484
G 451-1795
893-7923 5
465-9603+6
IN R 839-5375 4
R 832-2302+6
4 C 836-3382
839-6157 4
RY 832-8643 4
IN DEPTH839-6346 2
Z 834-9712
ZABETH L893-3621
465-0806+6
: 835-4375 5
MRS 452-2405
5
893-5912 5
R 893-1920 4
452-2503
RY E 452-1424
763-0951 2
....
49 RES 7 NEW

)5 OAKLAND

00
E 635-1519 5
LMONT 562-0889
562-0889 4
HAEL D 635-1670 3
5 RES 0 NEW

)R 94605 OAKLAND

ERT 635-7814 4
F 638-8626
JR 562-3354
HN T 562-0927 2
00
B 562-5200
C 569-7069
L 568-6810 4
632-1551
00
569-8167
638-4706
DO 568-0910 5
G 638-0907
N 562-5609
L 638-1711
HUR H 638-5898
PH 568-2976 5
TE L N 635-8792 5
00
00
00
00
562-7512 2
P 635-0746 3
00
N 569-1872
00
FORD W 635-9073 4
00
00
568-8674
00
ALVIN 568-8283 3
00
W H 569-7867
R R H 632-0583 4
569-9034
P 569-6849
ARREN 636-0296
A 569-4070
568-4478 5

..ELYSIAN FIELDS DR 94605 CONT..
*MOORE TOM REALTY 568-5171 5
260 ROSSI ROD 638-0368+6
265 FORDE A 568-8140
270 JOHNSON LEROY E 562-3324 5
279 MANNETTE WM A 569-2230
280 CHAUMETTE SERGE F 638-4997 5
290 HOGAN MICHAEL J MD 638-6704+6
310 STEWART J W SYMON 632-6756
311 ENGELMAN G C 562-8044
320 CORREIA JOHN W 638-7808
321 BEYDA LOUIS 568-7284
330 SCARPA LOUIS F 562-1182
331 FARLEY RAYMOND M 562-5054
339 GUITON HARVIE JR 568-5190 4
340 HAWKINS C E 562-9931 5
347 XXXX 00
350 SOLARI MARIO 569-8272
355 XXXX 00
360 MCCULLOUGH F L 562-2691
363 GOLSON ALFRED P 569-4110
380 TRIBBLE IKE 635-2665 4
390 DODSON LOIS A 569-0300 5
LEE DODSON CHILDRN 569-0332 5
398 BRUNO VITO 632-6197
400 XXXX 00
422 XXXX 00
448 WOLFE I 636-0600+6
WOLFE L 569-5900
500 MARTIN C H 569-1412
510 LEE DAVID L 568-0914
520 SCOTT WM J 632-6411
530 GAVAZZA MARIO 562-8930
540 XXXX 00
550 ROTNER DAVID L DR 562-0945
ROTNER GLEN 562-0945
560 BOLTWOOD J M 562-3086 3
580*OSCAR PRESCO&SONS 636-0137+6
601 SHERMAN M P 568-5401+6
610 MCNELY WARREN 638-0951
NO #*FEDERIGHI&CO RLTRS 569-5606 3
NO #*SEQUOYAH HIGHLANDS 569-5606 3
* 4 BUS 79 RES 5 NEW

EMBARCADERO 94606 OAKLAND

1....APARTMENTS
BAIRD RONALD E 893-6840 5
BEAMAN THOS S 444-2832+6
252 BOCKIUS D 452-1551 5
CRAWFORD H B 763-1788+6
365 DONALDSON DON 465-7650 5
DUFORD RANDALL 834-6708+6
251 EASTWOOD GORDON L 451-6467 5
FORREST H 836-0670+6
FOSSAN JEFF 763-2176+6
FOSTER HOWE S 465-9185+6
*GENL ELEC COMPUTER 763-0440+6
GUAGLIANONE SANDRA 465-9363+6
HENSON LARRY 834-7932+6
HOFINGER FRED F 465-3641+6
357 LOGAN SAML 465-1428 5
358 LOWRY SCOTT 893-4265 5
MACBEAN J A 834-5698+6
162 MORRIS ROBT C 465-7663 5
233 NEWMAN LEONARD 893-1467 5
OLSON WARREN R 465-8960+6
POLK MARK 465-6438+6
320 PRITCHARD P 452-0875 5
350 REMINGTON STEVE 835-5060 5
157 SMITH N 444-3641 5
SMITH WM 763-0709+6
250 SUTHERLAND J 763-3895 5
TODD BERT 763-0931+6
USHIJIMA GEO W 452-3497+6
WILLIAMSON DOROTHY 763-0336+6
WINTER STEVEN 465-5016+6
1.......................
2 XXXX 00
3....APARTMENTS
BERT JAS A 444-4153+6
240 BROCKHAGE JOHN W 763-0463 5
CARTER W N 465-8982+6
CRAIG ROBT 834-3847+6
GEBHARDT U 465-5694+6
HILL LINDA 452-1880+6
JOHNS FLORIDGE JR 465-3078+6
MONROE LEIGHTON 452-1880+6
138 MURRAY ARCHIE 832-6791 5
NORRIS P 835-8383+6
334 PACKER DUANE R 465-2593 5
PFAFFENBERGER A 763-6062+6
ROSENDALE P 835-4799+6
336 SAUNDERS E J 893-0827 5
234 SILVA INEZ 451-6654 5
SIMONIAN KARNIG JR 834-4084+6
SMITH CAROL 763-4032+6
WALTERS GEO W JR 763-4803+6
3.......................
5....APARTMENTS
BASKIND MARTIN 763-4384+6
214 BATHKE A L 832-5986 5
BIGHAM KENNETH 465-5691+6
BRADY R A 834-4218+6
215 BROWNE J D 452-1075 5
DOUGHERTY HOLLY 893-2454+6
HANSON NORMAN S 763-5652+6
HANSON STEVEN E 763-5652+6
136 LATIMER WARD 763-4065 5
LEWIS HARVEY 893-5047+6
226 MASTER AMAR K 465-8341 5
MEADOWS LINDA 834-8372+6
MURPHY TIMOTHY A LT763-1492+6
NELSON RAY 763-3617+6
127 OSULLIVAN JOHN L 893-7174 5
PFEIFFER RICHARD E 465-6773+6
RICKETTS G 834-6535+6
134 ROD VICTOR J 839-9381 5
SOBELL MARK 893-7591+6
333 STEEDMAN GEO T 452-1777 5
TRAMMELL MILTON L 835-5976+6
TWITO R 465-5272+6

..EMBARCADERO 94606 CO
331 HEIDNER CHAS R 834-
WILLIAMS IRA JAS 452-
5.......................
7....APARTMENTS
ALTER J C 763-
BAKER D G 763-
316 BENNER DOUGLAS 763-
BIGLER ROGER A 839-
BRACKEMYER ARLYN 465-
CLARK DON C 763-
CLARK RICHARD D 444-
*COMMUNCTNS CNSLTNTS836-
DEYOUNG PAT 763-
DURVAL GEO 832-
FERGUSON WM H 835-
GARRETT HOKE M 465-
JACKSON JERRY S 834-
KRIWINSKI H M 835-
LANGRIDGE RAY L 893-
LAZARUS KENT R 465-
MCRAE M 835-
MECUM F 465-
MIGA DENNIS 465-
314 *MULFORD DON 836-
REDMON GENE 893-
SAYLOR RICHARD L 834-
SHOEMAKER L 835-
SIXT JOHN W 763-
WILSON PAUL M 834-
WRIGHT J J 893-
7.......................
8 XXXX 00
11....BUILDING
*BACHARACH ALVIN H 893-
*BANKERS LIFE CO 836-
*BENNETT RICHARD C 763-
*COLOR DEPOVISION 763-
*CROUSE HINDS LGHTNG893-
225 *CUSTOM FINCL CORP 465-
*CUSTOM LEASING CO 465-
*DENMORLIN ENTRPRSES465-
*DON WILSON YACHT 444-
*GEORGE J FRANK 763-
*HARBAUGH ROBERT T 893-
220 *HURD IRVING J JR 763-
*KAUFMAN LAURENCE 763-
*KELLEY COLIN C 444-
*LOWNEY KALDVEER ASC839-
*MEYER HERMAN C 763-
166 *MINIETTA M P 763-
*MORRISON JACKSON E 763-
*OWEN J A 834-
*PISOR ELLIOTT M 763-
*PORTOBELLO 465-
*PORTOBELLO FOOD DCK451-
120 *PORTOBELLO MARINA 444-
*STUTO WACHTLER 763-
*THOMAS FRANK J 836-
*VADNEY LEROY F 763-
*WICKERSHAM JAMES 465-
*WILSON D YACHT SLS 444-
*WYSINGER BARBARA J 763-
11.......................
13*BAY AREA MAINTENANC532-
15*RUSTY SCUPPER THE 465-
17*PROCESS TECH CO 536-
VAUGHAN WILLIAM E 532-
18*GENESIS 535-
19*RAHM ADVERTISING 832-
*RESOR ANDERSON ADV 832-
21 DURANT D D 532-
25*PARRY GEO PTTRN WRK534-
27*AUGUST BRENT K&CO 532-
31*AITKEN JAMES B 536-1700
*COUSTEAU AITKEN INC536-1700
35*CORNET STEPHEN H 835-1100
*DENT LARRY B 835-1100
*FARROW HAROLD R 835-1100
*FARROW SCHILDHAUSE 835-1100
*RICHTER STEVEN A 835-1100
*ZIMMERMAN ALAN P 835-1100
37 XXXX 00
45*TANK HOUSE THE 532-
55*VICTORIA STN RSTRNT532-1430
321*MERRITT SALES CO 893-7020
*MERRITT SHIP REPAIR893-7020
351*FLASHER CO THE 836-0861
364 XXXX 00
380*ALBERTS STEAK SAN 451-7329
*AMER BOATING ASSN 763-4455
*COMNTY MNGMNT ASSOC465-
*COONEY MARTIN J 451-9717
*COONEY STUDIOS 451-9717
*JOSES BARBER SHOP 452-1010
*STEAK SAN BY ALBERT451-7329
384*GOATLEY MERLE D 835-3691
*H M S LIMITED 836-2772
401*KAISER SAND&GRAVEL 465-2245
444*JACK LONDON INN 444-2032
449*DUFFYS ENTERPRISE 893-0981
457*HARBOR ENGINEERING 893-0225
461*STUDIO THIRTY THREE832-4305
466*DECORATIVE ARTS LTD893-5394
485 XXXX 00
499....BUILDING
*B&C ENGINEERING 832-2228
*FOXX LYNN CORP 836-1789
5 *HILL JAMES T 893-8635
*OAKLD REHAB INC 465-9911
*SILVEIRA J W CO 834-9810
*SILVEIRA J W DVLPMT834-9811
*SILVEIRA J W INVSTM834-9814
*SKYLINE MOTORS 834-9811
*STROMQUIST EBEN 893-8869
*SUNSET FABRICATORS 452-2080
*UNITD PAC BUILDERS 836-0360
*WATSON ASSOCIATES 839-6290
499.......................
559*GOULD WALLY&CO 893-5859
601 XXXX 00
625 MILLER DALE D 893-7121
SOMMER GLEN 836-3952
*THRALL ED YACHTS 465-9600
YOUNG GENE D F 465-9899

..EMBARCADERO 94606 CONT..
ON TRUCKING 893-6011 5
PER STRUT 839-9690 4
SUPERIOR STRUT&HNGR839-9690 4
LIQUID CARBONIC CRP451-4100
DUSTY RHODES MARINE452-0400
RHODES DUSTY MARINE452-0400
SMITH T LEON 452-2036+6
WHITE STANLEY C 763-5127+6
WILLIAMS JOHN C 465-4658 4
HOPS ENTERPRISE 832-5350 3
HOFSCO INC 832-5351 3
STEAK DOCK 893-6700
XXXX 00
ARK THE 893-5900
*BURGE ROY L INC 451-7273 5
*JOHNSON&JOSEPH CO 832-5420 4
MAR INDUSTRIES INC 832-5420
*BARCLAY JACKS 261-3287 5
XXXX 00
GANG PLANK 533-8321 2
JOHNSON RALPH D 534-3400 5
*APRIL SMLL WRK BOAT534-6609+6
BOLAND RICHARD 534-2628 5
BROOKS RODNEY W 261-5528+6
*OAKLAND MARINA 533-0107
OAKLD YACHT SALES 261-0600+6
WHITMER BILL 535-2097+6
ZIG ZAG MARINE SERV534-5891+6
*CATALINA MARINE 533-9290
*STEVES MARINE INC 534-6700 3
*CROWLEY LNCH&BOAT 839-4020 2
*PAC DRY DOCK&REPAIR839-4020 5
*NATL EXPANSN JOINT 536-0935
*CAL MILLING CORP 532-8530+6
*DOMASCO BAKERS SPLY532-8530 5
*SUTTON INTERNATIONL532-5182+6
*WHEELER SERVICE CO 532-3330+6
*A 1 BOAT REPAIRING 532-9796
*LANI KAI HARBOR 261-6532 5
*E X O INTERNATIONAL261-6344+6
*PACIFIC HRDWD SALES261-6342
1820 XXXX 00
1830*DASCO INC 532-4936 2
*PAK WELL CNSMR PRDS532-4936+6
*ROCKMONT SALES CO 532-8327 2
*WALTERS ENGINEERING533-5900+6
1840*REXFORD PRE PAKT CO536-8300 2
*SAFEWY MEAT&EGG DIV536-8300
1841*WALTERS ENGINEERING533-9511
1851 FEIGE ELVIN H 261-1212
*KOMPIRA 532-4702+6
MULLER G 533-0181 3
*OAKLAND YACHT CLUB 533-6920
*PAC YACHT SVS DIVER536-4836 5
WOOLLEY JAS L DR 534-8012+6
1924 XXXX 00
1931*PARKER DIESEL RPR 534-1547
*STAR MARINE ENGINE 261-3510 4
1935*POWER&SAIL ASSOC 534-1904 3
1937*CHRIS CRAFT PARTS 534-1550
*MARINE PARTS CO 534-1550
1950 XXXX 00
1951*EMBARCADERO COVE 536-6760 2
*GAMERSTON&GRN LUMBR534-6464
*GREEN LUTHER D 534-6464
*QUINNS LIGHTHOUSE 536-2050 3
*SAILBOATS INC 536-6760
1960*EMSCO PLYWOOD 536-4733
1970 XXXX 00
1989 XXXX 00
1990*FORTY PLUS CALIF 534-4154 2
1995*BAYTRONICS CORP 261-0100 5
*CARYLS FISHERMNS SV534-0795+6
*DOCK CAFE 261-1502 4
*EVANS RADIO DOCK 534-7300
RUNNER L D 533-8314+6
2100*ACME PALLET CO INC 261-1843 4
*SONOMA PACIFIC CO 261-1843+6
NO #*PINEAPPLE SAILS 444-4321+6
NO #*RICHARDS&VANHEECKRN444-4321+6
* 144 BUS 125 RES 118 NEW

EMERALD 94609 OAKLAND

4103 VRANJOSH KATE 655-8514 3
WESTWOOD L 652-7247
4105 BASS TERRI 428-2345+6
DRISCOLL JOE 655-8610 5
4108 FLEMONS MICHAEL 652-1258 5
4108½ MCNEILL A 652-0620+6
4109 IMRIE MARGERY 652-2900
4111 HABIGER EMIL K 653-4143
4112 XXXX 00
4113A DEAN EDW T 653-5852 4
4114 SAMBAJON EINSTEIN 654-5837 5
4116 XXXX 00
4118 SHERBOURNE J A 654-4334 5
4120 FLACKUS FANNIE H 658-6243 3
MCKEOWN CLARA 655-0592 5
PERRY A 658-7589 3
ROBINSON E A 654-7983 4
4124....APARTMENTS
FRYE GRACE S 654-3878
11 FUJITA KOKO 654-8852 3
HALL L K 428-0240+6
1 OCONNOR MARY 658-3683 2
WATKINS ALICE 652-8966+6
4124.......................
4125 GIOVANNINI E 655-5018 5
4127 SANDERS WM S 654-6084
4132 JACKSON PAULINE 655-5783 5
4135 STAATS HARVEY 655-3952
4139 SANCHEZ FRANKLIN 655-4662+6
4140 KAIPER BRUCE 652-5210+6
4145 XXXX 00
4146 XXXX 00
4148 AARON JUDITH 428-1729+6
4151....APARTMENTS
1 ASHTON A IRENE 652-9210
2 GIRAULD J 655-1662
3 ENGEL E 655-5150 2
8 HUNTLEY V 655-1149 4

..EMERALD
6 MISCHN
5 OCONNO
4151.......
4155 ZIEGLE
4156 XXXX
4157 KATZ H
4159 OHNIMU
4161*BEEKER
4163 BOWDEN
4164 HORH R
A KAFER
4166A LEARY
4168 JOLLY
SHELTO
4169 XXXX
4170A WRIGHT
4173 VETTER
4174 XXXX
4175 MOON L
4179 KIRKPA
4180 DILLIN
4183 KRAPFM
4184 LEBLAN
4191 CATANG
* 1 B

EMERALD AV

821 PICCAR
824 VIEIRA
827 PENNYC
830 BENSON
840 SIMPSO
843 KING J
846 TEMPLE
855 GOLUB
858 GILLAS
862 FAUSTI
865 XXXX
866 MORAIS
871 TEMPLE
875 SILVER
876 XXXX
879 BELMES
905 XXXX
906 WOLF S
909 GULART
910 XXXX
927 SMITH
* 0 B

EMERIC AV

1311 WOOD H
1318 GILLIA
MEYER
1321*DINGUS
1322 CLEVEL
1327 XXXX
1328 FRAGA
1329 PONCE
1332 XXXX
1334 XXXX
1336 JACKSO
1400 DUNN M
1401 BELCHE
1404 LOUREN
1412 SANDOV
1414 XXXX
1420 XXXX
1491 BEITER
1493 XXXX
1497 BASNET
IODENC
1499 CHATHA
1500 BALES
1501 FRAZIE
1504 NICHOL
1513 JONAS
1514 PATINO
1520 XXXX
1524 FRAGA
1527 XXXX
1529 XXXX
1531 DANGER
DANGER
1533 THACKE
1536 XXXX
1540 COOPER
1600 BETTEN
1601 PARCHM
1609 REIS F
1612 MCQUIN
1618 MCHILL
1619 SERRAN
1629 MARTIN
MARTIN
1630 XXXX
1700 KLAUS
1701 DAVIS
1706 GREEN
1717 HARRIS
MORGAN
1721 XXXX
1722 NOE LA
1723 XXXX
1725 SHIRLE
1734 BARNES
1735 XXXX
1743 XXXX
1744 FURLOW
1745 XXXX
1748 GARCIA
1754 DANIEL
DANIEL
1800 REAND
REAND
1807 THORP
1811 BARRER
1813 LEWIS

94579 SAN LEANDRO

INT JOHN R 351-1623
.IND RICHARD 351-6088
IS RICHARD M 357-2681
IE ARTHUR JR 351-5171
. JOS F 483-3482
IS LOUIS B JR 351-4300
L EDMUND 357-4358
RSDORF HANS R 357-5871
NDES GLEN 357-9285
M MICHAEL J 351-5281+2
ETON V P 357-2243
WALTER 357-2757
AUSER A M 351-9083
R HAROLD 357-2026
JOHN 357-2856
JKA RYOJI 483-8483+2
G A 357-0250
AVN JENS 357-5378
DONALD J 357-4785
>S GLENN A 357-4533
'ON MARCEL 351-2081
IUEVA MARCIAL 357-4347+2
'ICHARD 357-6019
GH JOHN J 357-4655
IRD ROBT E 357-0356
DD AUGUST 351-0603
A KENNETH J 357-6851
ARTHUR J 357-0369
N THOS 357-8561
ALBERT 357-1523
TO CHARLOTTE 352-2985+2
E LESTER L . 357-4758
FIL L 357-0196
M MRS 357-0605
SON R J 351-2559
BENJ 357-0598
00
ION 357-1892
! GLEEN 357-8210
'ERRY 357-8291
INY 357-1390
, ALVIN 357-1586
EDW G 351-8420
R JOHN 352-1439
'S 44 RES 4 NEW

50 LIVERMORE

ERLYN C 443-0434
AMES W 447-0746
YD J 443-5924
ROBERT T 443-1278
4 JAMES 447-7245+2
)T ALDON 443-3891
IOHN D 443-4850
ALEXANDER 447-4535
:O 443-1230
I DANIAL J 447-6761
IACK S 443-4042
IOS 443-0880
LEON W 447-1523
PHEN E 443-1906+2
RLYN B 443-6865+2
ORGE 447-8775
ARLETON W 443-2352
NARVIN 447-7407
RUSSELL W 447-8310
F 443-0654
00
N 443-3169
CHARD 447-3425
BT L 443-4624
OHE 443-4867
ARD 443-1625
FRANK 443-3153+2
27 RES 4 NEW

610 OAKLAND

UL 452-4636
LD J 444-3689+2
ROY 835-5191
ENY 444-3023
H 832-4533
465-0276
G 444-5667
OKER MRS 465-2459+2
LOIS 465-5490+2
ILIP R MRS 444-8319
IE 832-8463
836-3411
N 834-9409
I 451-4705
893-8846
FRED A 832-4398
J 832-3853
'EN C 839-2319+2
EO BUSNS 465-7806+2
PERY SERV 832-5695
'DIA 832-5695
00
H JR 836-2506
N KENNETH 451-7679
KENNETH A 451-7679
832-8676
UCE 763-0974+2
D 832-7476
832-0129
00
J E 832-7926
444-1556
JOHN MRS 444-4947
LNN 836-3792
LROLD A 893-1905
F L 832-5484
) G 451-1795
832-3271
I 836-3763
452-3378
IPIA J 451-4533+2

..ELMWOOD AV 94610 CONT..
VOLTHER ANN E 835-8309
WANNAMAKER H C 836-3382
462 BAKER M PERRY 832-8843
*CHRISTIANS IN DEPTH 839-6346+2
*TAYLOR ROBT Z 834-9712
465 CRAWFORD F 834-6788+2
DAHLIN VIENNA 893-6253
KARSTEN ELIZABETH L 893-3621
485 MCLEAN CHAS MRS 452-2405
495....APARTMENTS
8 BRIDGEMAN E R 893-1920
1 JOHNSON HENRY 836-1279
6 MCCANN W C 452-2503
5 ROBERTS MAXINE E 452-3498
SCHMID A M 452-2351
4 SIMPKINS MARY E 452-1424
VANKAT E L 763-0951+2
495.....
* 5 BUS 52 RES 10 NEW

ELMOOD CT 94520 CONCORD

3989 FRANCE M R CAPT USA 686-0357
3990 BANG LAWRENCE P 682-3963
3991 WARD PATRICK H 685-1121
3992 BREWER A LUCILLE 685-0448+2
3993 MORRISSEY VINCE C 686-2923
3994 SUNDBORG CARL V 686-1797
3995 MARTIN BILL 689-8586
3996 DELANEY E 682-5310+2
HOUDE JEFF 689-4730+2
3999 ANDERSON DAVID D 686-3472
ANDERSON KATHERINE 686-3472
* 0 BUS 11 RES 3 NEW

ELYSIAN PL 94605 OAKLAND

1 RODRIGUES WILFRED E 568-2767
5 SUA U F JR 568-1091
6 PETERSON DELMONT 562-0889
10 XXXX 00
* 0 BUS 4 RES 0 NEW

ELYSIAN FIELDS DR 94605 OAKLAND

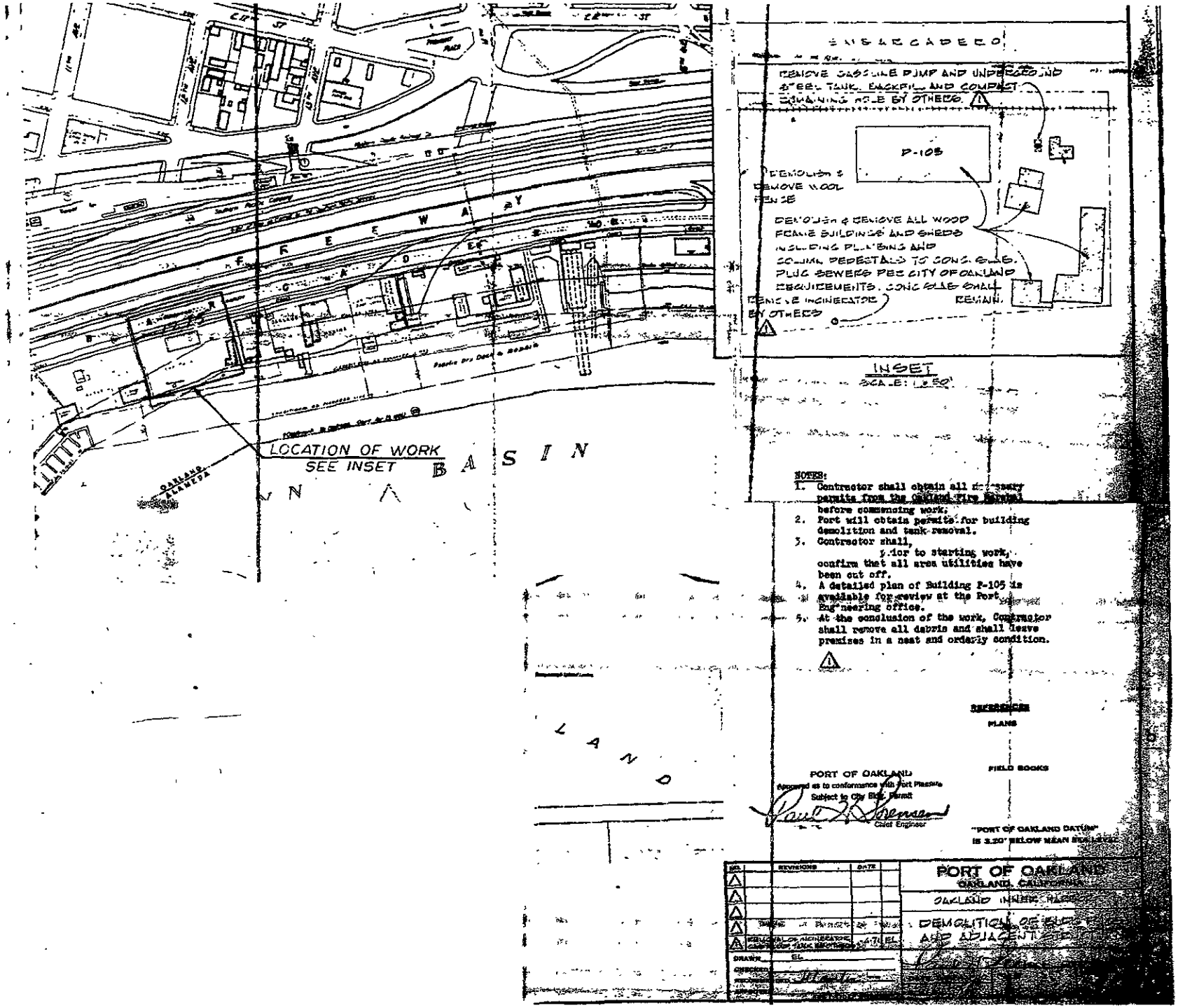
21 KLOSS WM B 569-2443
22 FIORE JACK F 638-8626
FIORE JOHN JR 562-3354
29 CULLETON JOHN T 562-0927+2
35 NASH ROBT C 569-7128
40 COONEY LEO B 562-5200
41 REYNOLDS W C 569-7069
45 BLUER HERBERT A 636-0179
46 CRONIN R J 632-1551
51 XXXX 00
58 KOHL VICTOR 569-8167
64 RICH JAS C 638-4706
65 CLARK JOHN S JR 638-3797
70 FRAMSTED B G 638-0907
73 BARANY IRWIN 562-5609
74 FERREIRA D L 638-1711
77 TOUSLEY ARTHUR H 638-5898
82 VALOOVINOS I F 632-7150
86 MCCALL ROBT F 568-5260
URCH LOUISE 568-5260
90 JOSEPH BENSON L 568-7000
94 SCHLOTTHAUER JAS J 569-0413+2
101 SCHNARTZ BURNHARDT 569-5631
102 BOYLE JOHN 562-7912+2
108 BROWN MINDY 635-1061+2
115 XXXX 00
125 DITTNER JAS N 569-1872
130 MCARTHUR ARTHUR F 569-7776+2
133 SCONYERS RICHARD C 562-4336
145*CALIF REALTY 562-3700+2
*PROFSSNL ECONOMC SV 562-3700
*SEVERNS ENTERPRISES 562-3700
168 ZERBE MARY E 632-2548
ZERBE T P 632-2548
183 PATTY WM J 568-8674
190 JAVEDAS UVELORA 632-7642
198 GARCIA JOHN 569-0613
199 SCHLATER CLETUS E 562-4807
201 AITKEN JOHN M 569-7867
215 NYE C ERIK 562-5760
230 ANDRUS BOB 569-9034
240 LENCI GEO P 569-6849
248 MANUEL J WARREN 636-0296
251 OWEN DAVID A 569-4070
259 MOORE T A PAPPY 568-4478
265 FORDE A 568-8140
FORDE JACK H 568-8140
270 JOHNSON LEROY E 562-3324
271 LEVESQUE ARTHUR J 632-3974
279 MANNETTE WM A 569-2230
280 MAGNUSON RICHARD 562-6210
290 OEANER RICHARD M 632-0428
293 LOWELL FRED JR 569-7287
298 HILL G F 562-9640
310 STEWART J W SYMON 632-6756
311 ENGELMAN G C 562-8044
320 CORREIA JOHN W 638-7808
321 BEYDA LOUIS 568-7284
330 SCARPA LOUIS F 562-1182
331 FARLEY RAYMOND M 562-5054
339 LEMAY THOS M 636-0346
340 BURRIS RAY A 562-8817
347 JACOBS E J 569-1388
350 SOLARI MARIO 569-8272
355 XXXX 00
360 MCCULLOUGH F L 562-2691
363 GOLSON ALFRED P 569-4110
380 CASEBOLT RALPH T 632-3132+2
390 PAGANELLI ANNE 568-7552
PAGANELLI RANSO J 562-4350+2
398 BRUNO VITO 632-6197
400 BRUNER LELAND W 562-1233
448 WOLFE I 636-0600

..ELYSIAN FIELDS DR 94605 CONT..
WOLFE L 569-5900
500 MARTIN G W 569-1412
510 LEE DAVID L 568-0914
520 SCOTT WM J 632-6411
530 GAVAZZA MARIO 562-8930
540 LESSA GEO J SR 562-9034
550 ROTNER DAVID L DR 562-0945
ROTNER GLEN 562-0945
560 BOLTWOOD C M COR 562-3086
601 GRAYDON BETTY J 638-7941
610 MCNELY WARREN 638-0951
* 3 BUS 81 RES 8 NEW

EMBARCADERO 94606 OAKLAND

27*MARINE CANVAS CO 536-6117+2
321*MERRITT SHIP REPAIR 893-7020
351*FLASHER CO THE 836-0861
457*HARBOR ENGINEERING 893-0225
461*STUDIO THIRTY THREE 832-4305
466 HAKES R E 452-3511+2
*HAKES R ORGAN REPR 452-3510+2
*ORGAN WORKSHOP THE 452-3510+2
468 BOZEMAN ROBT 835-4291+2
469*PACIFIC CST FLOORNG 832-0807+2
499....BUILDING
*BARNES&JONES INC 832-5626
*CHANNEL MARINE ENG 452-4269
*DISTELHURST R H 836-0919+2
*ERNST KATER COLUMN 832-5626
*FRAZIER ARTHUR R 452-4269
*GENERAL TRNSPRT EQPT 763-2833+2
*HICKMAN ENGINEERING 832-5626
*HILL JAMES T 893-8639+2
*NAVAS GILBERT A 444-1426+2
*SILVEIRA J W CO 834-9810
*SILVEIRA J W DVLPMT 834-9811
*SILVEIRA J W INVSTM 834-9814
*SKYLINE MOTORS 834-9813
*STROHQUIST EBEN 893-8869
499.....
555*GOULD WALLY&CO 893-5859
625*SEABREEZE YCHT CNTR 832-3951
YOUNG GENE D F 465-9899+2
639*CET TRUCKING 452-1200
845 XXXX 00
901*LIQUID CARBONIC CRP 451-4100
1000*DUSTY RHODES MARINE 452-0400
*RHODES DUSTY MARINE 452-0400
1103*STEAK DOCK 893-6700
1107*ALBATROSS YACHT SLS 893-6431
1111*ARK THE 893-5900
1115*BURGE ROY L 451-7273
1155*JOHNSON&JOSEPH ELEC 832-5420+2
*MAR INDUSTRIES INC 832-5420
*MIRRO CRAFT BOATS 832-5422+2
*SKIPPERS SUPPLY 832-5420
1285*EDWARDS HEAT TRTNG 261-5230
1301*GANG PLANK 533-8321+2
1307*WEBER&CO 536-3107+2
1311*INTERNATL MARINE SV 533-0107+2
MANSEAU JEAN A 532-2252
*OAKLAND MARINA 533-0107
*SMITH CLARENCE 533-6502+2
1313*CATALINA MARINE 533-9290
*WESTERN MARINE ELCT 535-1147
1363*PETERSON DICK CO 534-6700
1441*CROWLEY LAUNCH&TUG 534-1303
*CROWLEY LNCH&BOAT 839-4020+2
*PACIFIC DRY DOCK&RPR 534-1303
1601*NATL EXPANSN JOINT 536-0935
1755*CALO PET FOODS DIV 534-8788
*VICTORY DOG FOOD CO 534-8788
1759*A 1 BOAT REPAIRING 532-9796
*BAY MARINE ENGIN SV 261-6532
*LANI KAI HARBOR 261-6532+2
1817*PACIFIC HRDWD SALES 261-6342
1820*STAR WIRE SCRN DIV 534-7336
1830*DASCO INC 532-4936+2
*DAVIS SERVICE CO 532-4936+2
*ROCKMONT SALES CO 532-8327+2
*SUTTON INTERNATIONL 532-5182+2
1831*MCBROOM&CECCHINI 536-892D
1840*REXFORD PRE PAKT CO 536-8300+2
*SAFEWAY DRUG CENTER 536-8300
*SAFEWAY NON FOODS 536-8300
*SAFEWY MEAT&EGG DIV 536-8300
*SAFEWY PRODUCE DIV 536-8300
1841*WALTERS ENGINEERING 533-9511
1851....APARTMENT
AMARAL ANTHONY L 532-2664
BUSICK WM W 534-6800+2
FEIGE ELVIN W 261-1212
*OAKLAND YACHT CLUB 533-6920
STORM MALCOM R 536-0947
1851.....
1931*PARKER DIESEL RPR 534-1547
*STARMARINE 261-3510+2
1935 XXXX 00
1937*CHRIS CRAFT PARTS 534-1550
*MARINE PARTS CO 534-1550
1950*CALIF FOUNDRY 534-5040
*EMPIRE FOUNDRY CO 261-0171
1951....BUILDING
*EMBARCADERO COVE 536-6760+2
*GAMERSTON&GRN LUMBR 534-6464
*GREEN LUTHER O 534-6464
*NEUSTADT ROBT G 536-9569
*PARRY G PATTRN WRKS 534-3066+2
*S B I YACHT SALES 534-1904+2
*SAILBOATS INC 536-6760
*VICTORIA STN ASYRNT 532-1430+2
1951.....
1960*EMSCO PLYWOOD 536-4733
1989 XXXX 00
1990....BUILDING
*FORTY PLUS CALIF 534-4154+2
*PLASTICS DISTR INC 534-2815
*PYRO FOAM CORP 533-7244
1990.....
1995*DOCK REFRIGERATN SV 261-2160+2
*EVANS RADIO DOCK 534-7300
*MILLIES MARINE STR 532-0404

Drawing BB-3132


LOCATION OF WORK
SEE INSET
B A S I N
F R E E W A Y
OAKLAND ALAMEDA
REMOVE GASOLINE PUMP AND UNDERGROUND STEEL TANK, BACKFILL AND COMPACT REMAINING HOLE BY OTHERS.
P-105
DEMOLISH & REMOVE WOOD FENCE
DEMOLISH & REMOVE ALL WOOD FRAME BUILDINGS AND SHEDS INCLUDING PLUMBING AND SOCIAL PEDESTALS TO CONC. SLAB. PLUG SEWERS PER CITY OF OAKLAND REQUIREMENTS. CONC SLAB SHALL REMAIN
REMOVE INCINERATOR BY OTHERS
INSET
SCALE: 1"=50'
NOTES:
1. Contractor shall obtain all necessary permits from the Oakland Fire Service before commencing work.
2. Port will obtain permits for building demolition and tank removal.
3. Contractor shall, prior to starting work, confirm that all area utilities have been cut off.
4. A detailed plan of Building P-105 is available for review at the Port Engineering office.
5. At the conclusion of the work, Contractor shall remove all debris and shall leave premises in a neat and orderly condition.
REFERENCES
PLANS
FIELD BOOKS
PORT OF OAKLAND
Approved as to conformance with Port Practice
Subject to City Bldg. Permit
Chief Engineer
"PORT OF OAKLAND DATUM" IS 3.20' BELOW MEAN SEA LEVEL
NO. REVISIONS DATE
PORT OF OAKLAND
OAKLAND, CALIFORNIA
OAKLAND INNER HARBOR
DEMOLITION OF BLDG. P-105 AND ADJACENT STRUCTURES
DRAWN EL
CHECKED

APPENDIX C

Tables and Figures from Baseline Environmental Consulting's *Soil and Groundwater Investigation and Workplan* (August 2001)

This appendix contains the following tables and figures from the Baseline Environmental Consulting (2001) report:

SOIL AND GROUNDWATER INVESTIGATION AND WORKPLAN

GRAY & REYNOLDS DEVELOPMENT PROJECT

EMBARCADERO COVE
Oakland, California

AUGUST 2001

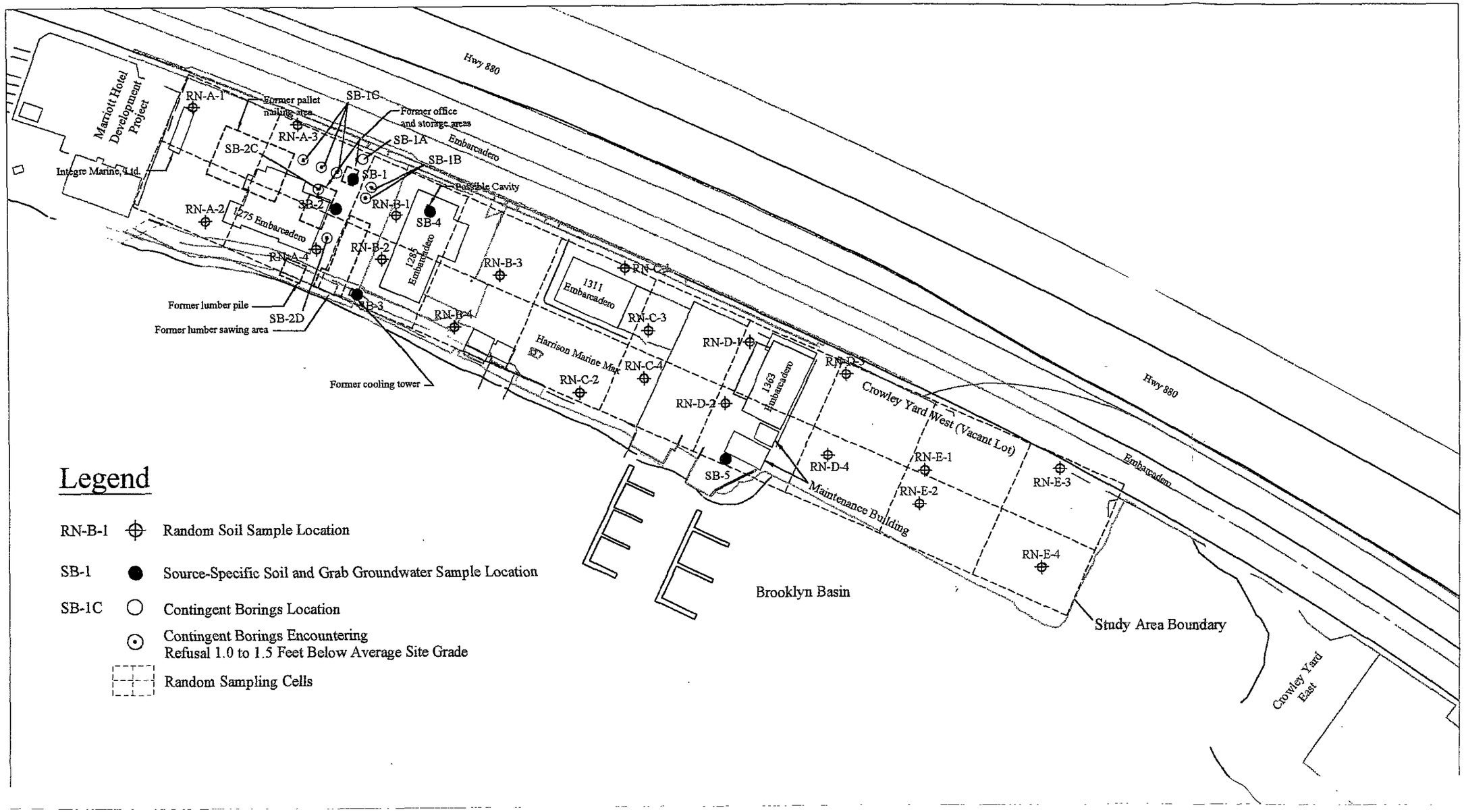
For:
Port of Oakland
Oakland, California

93879-30

BASELINE Environmental Consulting
5900 Hollis Street, Suite D • Emeryville, California 94608
(510) 420-8686

BORING LOCATIONS

Figure 2



Legend

RN-B-1	⊕	Random Soil Sample Location
SB-1	●	Source-Specific Soil and Grab Groundwater Sample Location
SB-1C	○	Contingent Borings Location
	⊙	Contingent Borings Encountering Refusal 1.0 to 1.5 Feet Below Average Site Grade
	▦	Random Sampling Cells

Gray and Reynolds Development Project
Oakland, California

0 120 Feet

Source Henshaw Associates 2001 and BASELINE

BASELINE

D Graphics 98379-30 Fig-2 BL dwg 5/31/01

TABLE 1
SUMMARY OF SOIL AND GROUNDWATER SAMPLE COMPOSITING AND ANALYSES
Gray Reynolds Development Project, Oakland, California
May 2001

Sampling Objective	Station ID		Sample Interval (feet)	Analysis: VOCs	SVOCs	TPH-d & TPH-g w/BTEX	Title 22 Metals	Hexavalent Chromium	Lead	PCBs	Pesticides	Tables
Random sampling for determining disposal options and risk to construction workers	Comp A	RN-A-1	1.5 - 2	X	X	X	X		X	X		2, 3, 4, and 5
		RN-A-2	1 - 1.5	X					X			
		RN-A-3	0.5 - 1	X					X			
		RN-A-4	1 - 1.5	X					X			
	Comp B	RN-B-1	1 - 1.5	X	X	X	X		X	X		
		RN-B-2	1 - 1.5	X					X			
		RN-B-3	1.5 - 2	X					X			
		RN-B-4	0 - 0.5	X					X			
	Comp C	RN-C-1	1 - 1.5	X	X	X	X		X	X		
		RN-C-2	0.25 - 0.75	X					X			
		RN-C-3	1 - 1.5	X					X			
		RN-C-4	1 - 1.5	X					X			
	Comp D	RN-D-1	0.5 - 1	X	X	X	X		X	X		
		RN-D-2	1 - 1.5	X					X			
		RN-D-3	1.5 - 2	X					X			
		RN-D-4	0.5 - 1	X					X			
	Comp E	RN-E-1	0.5 - 1	X	X	X	X		X	X		
		RN-E-2	1.5 - 2	X					X			
		RN-E-3	0 - 0.5	X					X			
		RN-E-4	0.5 - 1	X					X			
Random sampling for determining disposal option and risk to construction workers	Comp P1	RN-A-1	1.5 - 2								X	
		RN-A-2	1 - 1.5									
		RN-A-3	0.5 - 1									
		RN-A-4	1 - 1.5									
		RN-B-1	1 - 1.5									
		RN-B-2	1 - 1.5									
		RN-B-3	1.5 - 2									
		RN-B-4	0 - 0.5									
		RN-C-1	1 - 1.5									
		RN-C-2	0.25 - 0.75									
	Comp P2	RN-C-3	1 - 1.5								X	
		RN-C-4	1 - 1.5									
		RN-D-1	0.5 - 1									
		RN-D-2	1 - 1.5									
		RN-D-3	1.5 - 2									
		RN-D-4	0.5 - 1									
		RN-E-1	0.5 - 1									
		RN-E-2	1.5 - 2									
		RN-E-3	0 - 0.5									
		RN-E-4	0.5 - 1									
Random sampling for determining residual risk after excavation	Comp F	RN-A-1	4.5 - 5	X	X				X	X		6, 7, and 8
		RN-A-2	4.5 - 5						X			
		RN-A-3	4.5 - 5	X					X			
		RN-A-4	4.5 - 5						X			
	Comp G	RN-B-1	4.5 - 5	X	X				X	X		
		RN-B-2	4.5 - 5						X			
		RN-B-3	4.5 - 5	X					X			
		RN-B-4	4.5 - 5						X			
	Comp H	RN-C-1	4.5 - 5	X	X				X	X		
		RN-C-2	4.5 - 5						X			
		RN-C-3	4.5 - 5	X					X			
		RN-C-4	4.5 - 5						X			
	Comp I	RN-D-1	4.5 - 5	X	X				X	X		
		RN-D-2	4.5 - 5						X			
		RN-D-3	4.5 - 5	X					X			
		RN-D-4	4.5 - 5						X			
	Comp J	RN-E-1	4.5 - 5	X	X				X	X		
		RN-E-2	4.5 - 5						X			
		RN-E-3	4.5 - 5	X					X			
		RN-E-4	4.5 - 5						X			
Source-specific sampling to investigate potential presence of constituents based on historical site information	SB-1		0.75 - 1.25			X						9 and 10
			3 - 3.5		X	X						
			grab groundwater		X	X						
	SB-2		1 - 1.5			X						
			4 - 4.5			X						
			grab groundwater		X	X						
	SB-3		0.5 - 1					X				
			3.5 - 4					X				
			grab groundwater		X			X				
	SB-4		1 - 1.5	X	X					X		
			4.5 - 5	X	X					X		
			grab groundwater	X	X					X		
	SB-5		0.5 - 1	X	X							
			4 - 4.5	X	X							
			grab groundwater	X	X							
Contingent sampling based on field observations	SB-1A		0 - 0.5			X						
			5 - 5.5		X	X						
			grab groundwater		X	X						
	SB-1B		1 - 1.5			X						
	SB-2C		0 - 0.5			X						
			3 - 3.5			X						

Notes:
VOCs - Volatile organic compounds
SVOCs - Semivolatile organic compounds
TPH-d - Total petroleum hydrocarbons as diesel
TPH-g w/BTEX - Total petroleum hydrocarbons as gasoline with benzene, toluene, ethylbenzene, and total xylenes
PCBs Polychlorinated biphenols

TABLE 2

TOTAL METALS, PETROLEUM, BTEX, PCBs, AND SVOCs IN SOIL, 0-2 FOOT COMPOSITES

Disposal and Construction Worker Health and Safety

Gray & Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Compound \ Sample ID	COMP A		COMP B		COMP C		COMP D		COMP E	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Metals[1]										
Antimony	ND	2.9	ND	2.8	ND	3	ND	2.9	ND	2.9
Arsenic	10	0.24	4.3	0.23	6.1	0.25	3.8	0.24	9.2	0.24
Barium	41	0.48	65	0.46	150	0.5	110	0.48	2200	9.5
Beryllium	0.21	0.095	0.26	0.093	0.29	0.099	0.39	0.096	0.45	0.095
Cadmium	1	0.24	2.1	0.23	1.7	0.25	2.2	0.24	3.8	0.24
Chromium	22	0.48	16	0.46	23	0.5	21	0.48	39	0.48
Cobalt	5.3	0.95	6.4	0.93	6.4	0.99	8	0.96	7.6	0.95
Copper	17	0.48	75	0.46	26	0.5	24	0.48	450	0.48
Lead	24	0.14	32	0.14	31	0.15	29	0.14	1500	0.14
Mercury	0.14	0.019	0.083	0.02	0.3	0.018	0.46	0.019	0.64	0.019
Molybdenum	1.2	0.95	ND	0.93	ND	0.99	ND	0.96	3	0.95
Nickel	25	0.95	27	0.93	36	0.99	41	0.96	69	0.95
Selenium	0.36	0.24	ND	0.23	ND	0.25	ND	0.24	ND	0.24
Silver	ND	0.24	ND	0.23	ND	0.25	ND	0.24	0.25	0.24
Thallium	ND	0.24	ND	0.23	0.39	0.25	0.77	0.24	0.39	0.24
Vanadium	20	0.48	25	0.46	26	0.5	34	0.48	30	0.48
Zinc	40	0.95	61	0.93	69	0.99	92	0.96	1600	19
Organic Compounds										
TPH-g[2]	ND	1.1	ND	1	ND	0.94	19	0.98	ND	1.1
TPH-d[2]	20	1	76	2	74	2	540	2	98	5
Total BTEX[4]	<0.0053	0.0053	0.0054	0.0051	0.0052	0.0047	0.037	0.0049	<0.0055	0.0055
Aroclor-1254[3]	0.019	0.012	ND	0.012	ND	0.12	ND	0.012	ND	0.12
Aroclor-1260[3]	0.022	0.012	ND	0.012	ND	0.12	0.034	0.012	ND	0.12
bis(2-ethylhexyl)phthalate[5]	0.49	0.33	ND	0.33	ND	3.3	ND	1.7	ND	3.3

Notes: RL = Laboratory reporting limit.

TPH-g = Total petroleum hydrocarbons as gasoline. TPH-d = Total petroleum hydrocarbons as diesel. BTEX = Benzene, toluene, ethylbenzene, and xylenes.

Table 1 identifies the compositing scheme. See Figure 2 for sampling locations. Refer to Appendix D for laboratory report.

[1] All analyses except mercury performed using EPA Method 6010B; mercury analysis performed using EPA Method 7470.

[2] Analyzed by EPA Method 8015M with silica gel cleanup. Gasoline range: C7-C12; diesel range: C10-C24.

[3] Analyzed by EPA Method 8082. Only compounds identified above laboratory reporting limits are listed.

[4] Analyzed by EPA Method 8021B. For individual compounds, refer to laboratory reports in Appendix D.

[5] Analyzed by EPA Method 8270C. Only compounds identified above laboratory reporting limits are listed.

TABLE 3

VOLATILE ORGANICS IN SOIL, 0-2 FEET BGS

Disposal and Construction Worker Health and Safety

Gray Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Sample ID	RN-A1;1.5-2		RN-A2;1-1.5		RN-A3;0.5-1		RN-A4;1.0-1.5		RN-B1;1-1.5		RN-B2;1-1.5		RN-B3;1.5-2		RN-B4;0-0.5		RN-C1;1-1.5		RN-C2;0.25-0.75	
Compound	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.019	ND	0.02	ND	0.02	ND	0.019	ND	0.02	ND	0.019	0.043	0.019	ND	0.019	ND	0.019	ND	0.02
Ethylbenzene	ND	0.0046	ND	0.005	ND	0.005	ND	0.0046	ND	0.0049	ND	0.0047	ND	0.0046	ND	0.0047	0.0048	0.0047	ND	0.005
m,p-xylenes	ND	0.0046	ND	0.005	ND	0.005	ND	0.0046	ND	0.0049	ND	0.0047	ND	0.0046	ND	0.0047	0.021	0.0047	ND	0.005
o-xylene	ND	0.0046	ND	0.005	ND	0.005	ND	0.0046	ND	0.0049	ND	0.0047	ND	0.0046	ND	0.0047	0.0082	0.0047	ND	0.005
MTBE	ND	0.0046	ND	0.005	ND	0.005	ND	0.0046	ND	0.0049	ND	0.0047	ND	0.0046	ND	0.0047	ND	0.0047	ND	0.005
n-butylbenzene	ND	0.0046	ND	0.005	ND	0.005	ND	0.0046	ND	0.0049	ND	0.0047	ND	0.0046	ND	0.0047	ND	0.0047	ND	0.005
sec-butylbenzene	ND	0.0046	ND	0.005	ND	0.005	ND	0.0046	ND	0.0049	ND	0.0047	ND	0.0046	ND	0.0047	ND	0.0047	ND	0.005
Toluene	ND	0.0046	ND	0.005	ND	0.005	ND	0.0046	ND	0.0049	ND	0.0047	ND	0.0046	ND	0.0047	0.016	0.0047	ND	0.005

TABLE 3

VOLATILE ORGANICS IN SOIL, 0-2 FEET BGS

Disposal and Construction Worker Health and Safety

Gray Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Sample ID / Compound	RN-C3;1-1.5		RN-C4;1-1.5		RN-D1;0.5-1		RN-D2;1-1.5		RN-D3;1.5-2		RN-D4;0.5-1		RN-E1;0.5-1		RN-E2;1.5-2		RN-E3;0-0.5		RN-E4;0.5-1	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.02	0.048	0.02	ND	0.02	0.047	0.019	0.066	0.04	ND	0.02	ND	0.019	ND	0.019	ND	0.019	ND	0.019
Ethylbenzene	ND	0.0051	ND	0.0051	ND	0.0051	ND	0.0047	ND	0.01	ND	0.0049	ND	0.0047	ND	0.0048	ND	0.0047	ND	0.0047
m,p-xylenes	ND	0.0051	ND	0.0051	0.0094	0.0051	ND	0.0047	ND	0.01	ND	0.0049	ND	0.0047	ND	0.0048	ND	0.0047	ND	0.0047
o-xylene	ND	0.0051	ND	0.0051	ND	0.0051	ND	0.0047	ND	0.01	ND	0.0049	ND	0.0047	ND	0.0048	ND	0.0047	ND	0.0047
MTBE	ND	0.0051	ND	0.0051	ND	0.0051	0.043	0.0047	ND	0.01	ND	0.0049	ND	0.0047	ND	0.0048	ND	0.0047	ND	0.0047
n-butylbenzene	ND	0.0051	ND	0.0051	ND	0.0051	ND	0.0047	0.017	0.01	ND	0.0049	ND	0.0047	ND	0.0048	ND	0 0047	ND	0.0047
sec-butylbenzene	ND	0.0051	ND	0.0051	ND	0.0051	ND	0.0047	0.011	0.01	ND	0.0049	ND	0.0047	ND	0.0048	ND	0.0047	ND	0.0047
Toluene	ND	0.0051	ND	0.0051	ND	0.0051	ND	0.0047	ND	0.01	ND	0.0049	ND	0.0047	ND	0.0048	ND	0.0047	ND	0.0047

Notes:

All analyses performed using EPA Method 8260B. Only compounds identified above laboratory reporting limits are listed.

RL = Laboratory reporting limit.

Refer to Appendix D for laboratory reports.

Figure 2 shows sampling locations.

TABLE 4

TOTAL LEAD IN SOIL, 0-2 FEET

Disposal and Construction Worker Health and Safety

Gray & Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Sample ID	Result	RL
RN-A1;1.5-2	33	0.13
RN-A2;1-1.5	22	0.13
RN-A3;0.5-1	38	0.13
RN-A4;1.0-1.5	14	0.13
RN-B1;1-1.5	7.4	0.13
RN-B2;1-1.5	8.1	0.13
RN-B3;1.5-2	39	0.13
RN-B4;0-0.5	5.9	0.12
RN-C1;1-1.5	29	0.13
RN-C2;0.25-0.75	49	0.14
RN-C3;1-1.5	25	0.14
RN-C4;1-1.5	35	0.12
RN-D1;0.5-1	65	0.13
RN-D2;1-1.5	6.4	0.13
RN-D3;1.5-2	8.1	0.14
RN-D4;0.5-1	12	0.13
RN-E1;0.5-1	6.7	0.12
RN-E2;1.5-2	4.9	0.13
RN-E3;0-0.5	110	0.12
RN-E4;0.5-1	6.9	0.13
Mean	26	
90% UCL	34	

Notes:

All total lead analyses performed by EPA Method 6010B.

RL = Laboratory reporting limit.

Refer to Figure 2 for sampling locations.

Laboratory reports are included in Appendix D.

90% UCL = 90% upper confidence limit of the mean, one-tailed.

TABLE 5

PESTICIDES IN SOIL, 0-2 FEET

Disposal and Construction Worker Health and Safety

Gray & Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Sample ID / Compound	COMP P1		COMP P2	
	Result	RL	Result	RL
4,4'-DDD	ND	0.06	ND	0.06
4,4'-DDE	ND	0.06	ND	0.06
4,4'-DDT	ND	0.06	ND	0.06
Aldrin	ND	0.03	ND	0.03
alpha-BHC	ND	0.03	ND	0.03
alpha-Chlordane	ND	0.03	ND	0.03
beta-BHC	ND	0.03	ND	0.03
delta-BHC	ND	0.03	ND	0.03
Dieldrin	ND	0.06	ND	0.06
Endosulfan I	ND	0.03	ND	0.03
Endosulfan II	ND	0.06	ND	0.06
Endosulfan sulfate	ND	0.06	ND	0.06
Endrin	ND	0.06	ND	0.06
Endrin aldehyde	ND	0.06	ND	0.06
gamma-BHC	ND	0.03	ND	0.03
gamma-Chlordane	ND	0.03	ND	0.03
Heptachlor	ND	0.03	ND	0.03
Heptachlor epoxide A	ND	0.03	ND	0.03
Heptachlor epoxide B	ND	0.03	ND	0.03
Methoxychlor	ND	0.3	ND	0.3
Toxaphene	ND	0.6	ND	0.6

Notes:

Analyses performed using EPA Method 8081A.

RL = Laboratory reporting limit.

Refer to Table 1 for sample compositing scheme.

Figure 2 shows sampling locations.

Laboratory reports are included in Appendix D.

TABLE 6

VOLATILE ORGANICS IN SOIL, 4.5-5.0 FEET

Residual Soil Quality

Gray & Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Sample ID / Compound	RN-A1;4.5-5		RN-A3;4.5-5		RN-B1;4.5-5		RN-B3;4.5-5		RN-C1;4.5-5	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
2-butanone	ND	0.0096	ND	0.0096	ND	0.01	ND	0.0096	ND	0.0094
Acetone	0.019	0.019	ND	0.019	ND	0.02	0.028	0.019	ND	0.019

Sample ID / Compound	RN-C3;4.5-5		RN-D1;4.5-5		RN-D3;4.5-5		RN-E1;4.5-5		RN-E3-4.5-5	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
2-butanone	ND	0.01	0.015	0.01	ND	0.0093	ND	0.0098	ND	0.01
Acetone	ND	0.02	0.08	0.02	0.031	0.019	ND	0.02	ND	0.02

Notes:

All analyses performed using EPA Method 8260B. Only compounds identified above laboratory reporting limit are listed.

RL = Laboratory reporting limit. Only compounds reported above the laboratory reporting limit are listed.

Refer to Appendix D for laboratory reports.

Figure 2 shows sampling locations.

TABLE 7

SVOCs and PCBs in Soil, 4.5-5.0 Feet

Residual Soil Quality

Gray & Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Sample ID / Compound	COMP F		COMP G		COMP H		COMP I		COMP J	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
SVOCs										
Benzo(b)fluoranthene	0.37	0.33	ND	6.6	ND	0.33	ND	0.33	ND	0.33
bis(2-ethylhexyl)phthalate	0.96	0.33	13	6.6	0.42	0.33	0.69	0.33	0.86	0.33
Fluoranthene	ND	0.33	ND	6.6	ND	0.33	ND	0.33	1	0.33
Pyrene	ND	0.33	ND	6.6	ND	0.33	ND	0.33	1.1	0.33
PCBs										
Aroclor 1260	ND	<0.12	ND	<0.12	ND	<0.012	0.028	<0.012	ND	<0.012

Notes:

Analyses performed using EPA Method 8270C for SVOCs and EPA Method 8082 for PCBs. Only compounds identified above laboratory reporting limit are listed.

RL = Laboratory reporting limit.

Sample compositing scheme is shown in Table 1.

Laboratory reports are included in Appendix D.

Figure 2 shows for sampling locations.

SVOCs = Semi-volatile organic compounds.

PCBs = Polychlorinated biphenyls.

TABLE 8

TOTAL LEAD IN SOIL, 4.5 TO 5.0 FEET

Residual Soil Quality

Gray & Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Sample ID	Result	RL
RN-A1;4.5-5	41	0.15
RN-A2;4.5-5	31	0.15
RN-A3;4.5-5	670	0.15
RN-A4;4.5-5	26	0.14
RN-B1;4.5-5	12	0.14
RN-B2;4.25-4.75	4.3	0.14
RN-B3;4.5-5	830	0.15
RN-B4;4-4.5	90	0.12
RN-C1;4.5-5	8.5	0.13
RN-C2;4.5-5	120	0.14
RN-C3;4.5-5	3.5	0.14
RN-C4;4.5-5	49	0.14
RN-D1;4.5-5	11	0.14
RN-D2;4.5-5	27	0.15
RN-D3;4.5-5	40	0.14
RN-D4;4.5-5	28	0.15
RN-E1;4.5-5	35	0.14
RN-E2;4.5-5	6.1	0.15
RN-E3-4.5-5	91	0.15
RN-E4;4.5-5	42	0.13
Mean	162	
90% UCL	367	

Notes:

All total lead analyses performed using EPA Method 6010B.

RL = Laboratory reporting limit.

Refer to Figure 2 for sampling locations.

Laboratory reports are included in Appendix D.

90% UCL = 90% upper confidence limit of the mean, one-tailed.

TABLE 9

VOCs, SVOCs, PETROLEUM, AND BTEX, SOIL

Source Specific

Gray &Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Sample ID / Compound	SB-1;0.75-1.25		SB-1;3-3.5		SB-1A;0-0.5		SB-1A;5-5.5		SB-1B;1-1.5		SB-2;1-1.5		SB-2;4-4.5	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
VOCs														
2-butanone	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs														
2-methylnaphthalene	--	--	ND	0.33	--	--	2.2	0.33	--	--	--	--	--	--
bis(2-ethylhexyl)phthalate	--	--	0.61	0.33	--	--	ND	0.33	--	--	--	--	--	--
Naphthalene	--	--	ND	0.33	--	--	2.2	0.33	--	--	--	--	--	--
Petroleum														
TPH-g (C7-C12)	ND	1.1	ND	1	ND	1.1	500	25	ND	1	ND	0.98	ND	1.1
TPH-d (C10-C24)	62	1	13[1,2]	1	240[1,2]	5	40[1,2,3]	1	60[1,2]	1	43[1,2]	1	43[1,2]	1
Total BTEX	ND	0.0056	0.013	0.0052	ND	0.0054	22.2	0.13	0.0074	0.005	ND	0.0049	ND	0.0054
PCBs	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexavalent chromium	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 9

VOCs, SVOCs, PETROLEUM, AND BTEX, SOIL

Source Specific

Gray &Reynolds Development Project, Oakland, California

May 2001

(mg/kg)

Sample ID / Compound	SB-2C;0-0.5		SB-2C;3-3.5		SB-3;0-0.5		SB-3;3.5-4		SB-4;1-1.5		SB-4;4.5-5		SB-5;0-0.5		SB-5;4-4.5	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
VOCs																
2-butanone	--	--	--	--	--	--	--	--	ND	0.0096	0.016	0.0094	ND	0.01	ND	0.0098
Acetone	--	--	--	--	--	--	--	--	ND	0.019	0.09	0.019	ND	0.02	ND	0.02
SVOCs																
2-methylnaphthalene	--	--	--	--	--	--	--	--	ND	1.7	ND	0.33	ND	1.7	ND	0.33
bis(2-ethylhexyl)phthalate	--	--	--	--	--	--	--	--	ND	1.7	ND	0.33	ND	1.7	ND	0.33
Naphthalene	--	--	--	--	--	--	--	--	ND	1.7	ND	0.33	ND	1.7	ND	0.33
Petroleum																
TPH-g (C7-C12)	ND	0.96	ND	1	--	--	--	--	--	--	--	--	--	--	--	--
TPH-d (C10-C24)	25[1,2]	1	37[1,2]	1	--	--	--	--	--	--	--	--	--	--	--	--
Total BTEX	ND	0.0048	ND	0.0052	--	--	--	--	--	--	--	--	--	--	--	--
PCBs	--	--	--	--	--	--	--	--	ND	0.012	ND	0.012	--	--	--	--
Hexavalent chromium	--	--	--	--	ND	0.05	ND	0.05	--	--	--	--	--	--	--	--

Notes:

VOC analyses performed by EPA Method 8260B; SVOCs by EPA Method 8270C; BTEX by EPA Method 8021; TPH by EPA Method 8015M with silica gel cleanup; PCBs by EPA Method 8082, Hexavalent chromium by EPA Method 7196.

Only those analytes identified above laboratory reporting limits are listed.

RL = Laboratory reporting limit.

Laboratory reports are included in Appendix D.

See Figure 2 for sampling locations.

VOCs = Volatile organic compounds.

SVOCs = Semi-volatile organic compounds.

TPH-g = Total petroleum hydrocarbons as gasoline.

TPH-d = Total petroleum hydrocarbons as diesel.

BTEX = Benzene, toluene, ethylbenzene, and xylenes.

PCBs = Polychlorinated biphenyls.

-- = Not analyzed.

[1] Petroleum hydrocarbon does not match laboratory standard.

[2] Lighter hydrocarbons contributed to the quantification.

[3] Heavier hydrocarbons contributed to the quantification.

TABLE 10

ANALYTICAL RESULTS, GRAB GROUNDWATER

Gray & Reynolds Development Project

Oakland, California

May 2001

(µg/L)

Compound \ Sample ID	SB-1 Result	SB-1 RL	SB-1A Result	SB-1A RL	SB-2 Result	SB-2 RL	SB-3[1] Result	SB-3[1] RL	SB-4[2] Result	SB-4[2] RL	SB-5 Result	SB-5 RL
TPH and BTEX												
TPH-g (C7-C12)	80,000	5,000	25,000	500	ND	50	--	--	--	--	--	--
TPH-d (C10-C24)	2,900[3,4]	250	800[3,4]	50	180[3,5]	50	--	--	--	--	--	--
Benzene	8,600	50	260	5	ND	0.5	--	--	--	--	--	--
Ethylbenzene	3,900	50	760	5	ND	0.5	--	--	--	--	--	--
m,p-xylenes	11,000	50	1,900	5	ND	0.5	--	--	--	--	--	--
o-xylene	3,600	50	390	5	ND	0.5	--	--	--	--	--	--
Toluene	8,200	50	170	5	ND	0.5	--	--	--	--	--	--
SVOCs												
2-methylnaphthalene	260	94	130	9.6	ND	9.7	--	--	ND	9.6	ND	9.7
Benzyl alcohol	ND	94	ND	9.6	ND	9.7	--	--	27	9.6	ND	9.7
Naphthalene	610	94	170	9.6	ND	9.7	--	--	ND	9.6	ND	9.7
VOCs												
1,1-dichloroethene	--	--	--	--	--	--	--	--	8.9	5	ND	5
cis-1,2-dichloroethene	--	--	--	--	--	--	--	--	470	31	ND	5
Trans 1,2-dichloroethene	--	--	--	--	--	--	--	--	35	5	ND	5
Trichloroethene	--	--	--	--	--	--	--	--	300	31	ND	5
Vinyl chloride	--	--	--	--	--	--	--	--	11	10	ND	10
Field Measurements												
Turbidity (NTU)	114	--	239	--	640	--	240	--	397	--	252	--

Notes:

TPH-g/TPH-d analyses performed by EPA Method 8015M with silica gel cleanup for diesel; BTEX analyses performed by EPA Method 8021B; SVOC analyses performed by EPA Method 8270C; VOC analyses performed by EPA Method 8260B. Only those SVOC and VOC compounds identifed above laboratory reporting limits are shown.

RL = Laboratory reporting limit. TPH-g = Total petroleum hydrocarbons as gasoline. TPH-d = Total petroleum hydrocarbons as diesel. SVOCs = Semi-volatile organic compounds. VOCs = Volatile organic compounds. NTU = Nephelometric turbidity units.

Refer to Appendix D for laboratory reports.

Sampling locations are shown on Figure 2.

[1] This sample was analyzed for hexavalent chromium (EPA Method 7196); hexavalent chromium was not identified above the laboratory reporting limit (10 µg/L).

[2] This sample was also analyzed for PCBs (EPA Method 8082); PCBs were not identified above the laboratory reporting limit (0.49 µg/L).

[3] Sample exhibits fuel pattern which does not resemble standard.

[4] Lighter hydrocarbons contributed to the quantification.

[5] Heavier hydrocarbons contributed to the quantification.

APPENDIX D

Tables and Figures from Iris-Cambria's *Site Investigation and Screening-Level Risk Assessment* (January 2002)

This appendix contains the following tables and figures from the Iris-Cambria (2002) report:

Iris - Cambria
Environmental, JV

SITE INVESTIGATION AND SCREENING-LEVEL RISK ASSESSMENT REPORT

Gray & Reynolds Development Site
Embarcadero Cove
1275 Embarcadero
Oakland, California

January 16, 2002

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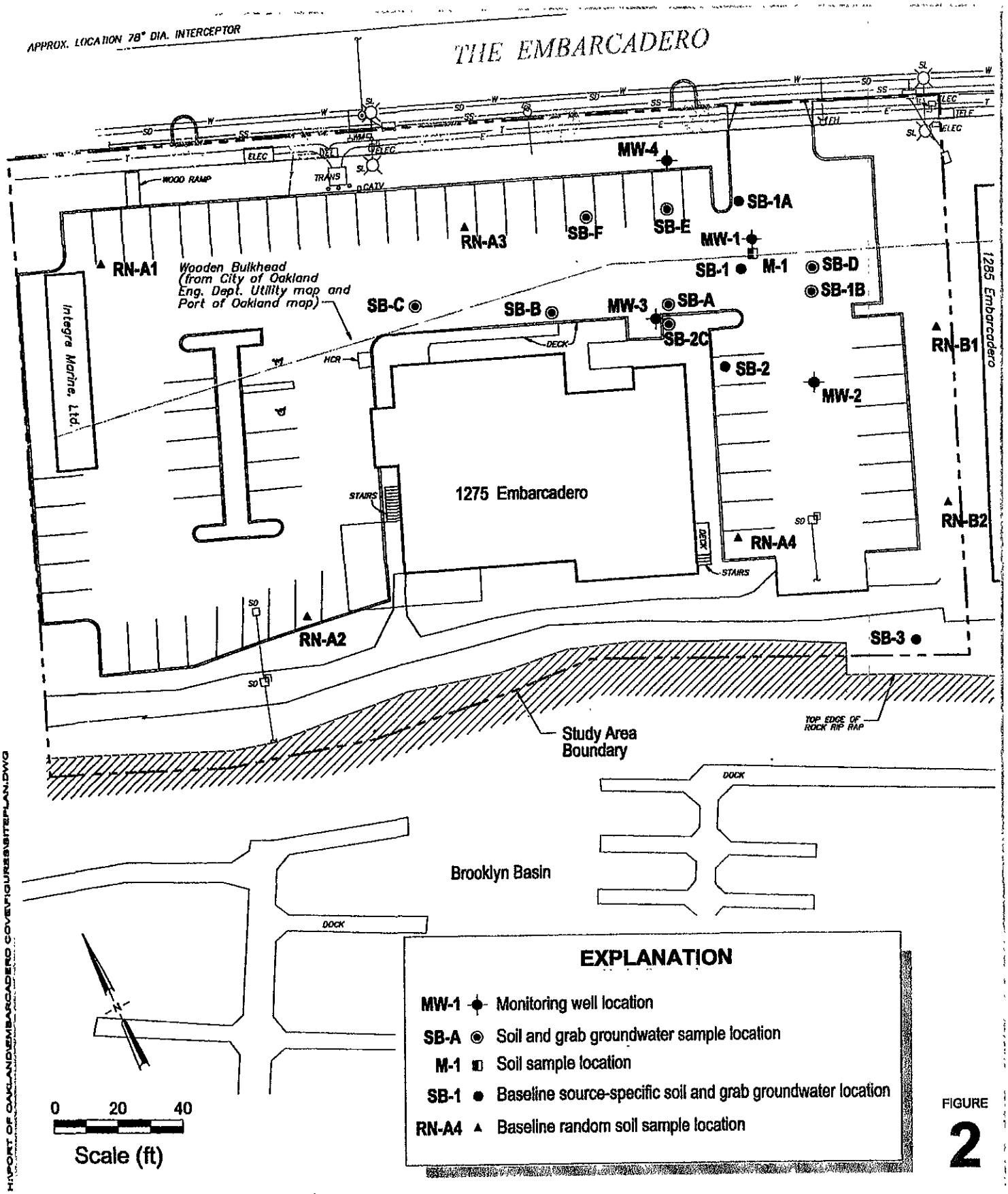
Principal Toxicologist

01/09/02



H:\PORT OF OAKLAND\EMBARCADERO COVE\FIGURES\SITEPLAN.DWG

FIGURE **2**

Port of Oakland
1275 Embarcadero
Embarcadero Cove Project
Oakland, California

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Site Plan

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Table 1: Soil Analytical Data - Light-Range Petroleum Hydrocarbons and MTBE - 1275 Embarcadero, Oakland, CA

Sample ID	Date Sampled	Sample Depth (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
			← mg/kg →					
Baseline Samples								
RN-A1;1.5-2	05/01/01	1.5	--	< 0.005	< 0.005	< 0.005	< 0.005	< 1.0
RN-A2;1-1.5	05/01/01	1.0	--	< 0.005	< 0.005	< 0.005	< 0.005	< 1.0
RN-A3;0.5-1	05/01/01	0.5	--	< 0.005	< 0.005	< 0.005	< 0.005	< 1.0
RN-A4;1 0-1.5	05/01/01	1.0	--	< 0.005	< 0.005	< 0.005	< 0.005	< 1.0
RN-B1;1-1.5	05/01/01	1.0	--	< 0.005	< 0.005	< 0.005	< 0.005	< 1.0
RN-B2;1-1.5	05/01/01	1.0	--	< 0.005	< 0.005	< 0.005	< 0.005	< 1.0
SB-1;0.75-1.25	05/01/01	0.75	< 1.1	< 0.0056	< 0.0056	< 0.0056	< 0.0056	--
SB-1;3-3.5	05/01/01	3.0	< 1.0	0.013	< 0.0052	< 0.0052	< 0.0052	--
SB-1A;0-0.5	05/02/01	0.0	< 1.1	< 0.0054	< 0.0054	< 0.0054	< 0.0054	--
SB-1A;5-5.5	05/02/01	5.0	**500**	< 0.130	1.1	5.0	**16.1**	--
SB-1B;1-1.5	05/02/01	1.0	< 1.0	< 0.005	< 0.005	< 0.005	0.0074	--
SB-2;1-1.5	05/01/01	1.0	< .98	< 0.0049	< 0.0049	< 0.0049	< 0.0049	--
SB-2;4-4.5	05/01/01	4.0	< 1.1	< 0.0054	< 0.0054	< 0.0054	< 0.0054	--
SB-2C;0-0.5	05/02/01	0.0	< 0.96	< 0.0048	< 0.0048	< 0.0048	< 0.0048	--
SB-2C;3-3.5	05/02/01	3.0	< 1.0	< 0.0052	< 0.0052	< 0.0052	< 0.0052	--
Cambria Samples								
SB-A-3.5	08/30/01	3.5	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05
SB-B-3.5	08/30/01	3.5	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05
SB-D-3.5	08/30/01	3.5	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05
SB-E-3.5	08/30/01	3.5	1.4	0.014	0.0080	< 0.005	0.026	< 0.05
SB-F-3.5	08/30/01	3.5	2.5	0.021	0.010	< 0.005	0.005	< 0.05
M-1-5	09/17/01	5.0	**2,300**	**1.8**	3.7	**48**	**7.2**	**5.1**
MW-1-8.3	10/09/01	8.3	30	**0.48**	0.067	0.70	0.52	<0.05
MW-2-5.0	10/09/01	5.0	7.5	0.027	0.051	0.041	0.087	<0.05
MW-3-5.0	10/09/01	5 0	1.6	< 0.005	< 0.005	< 0.005	< 0.005	<0.05
MW-4-5.3	10/09/01	5.3	34	**0.70**	0.068	0.41	0.97	<0.05

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Table 1: Soil Analytical Data - Light-Range Petroleum Hydrocarbons and MTBE - 1275 Embarcadero, Oakland, CA

Sample ID	Date Sampled	Sample Depth (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
			mg/kg					
Soil Screening Values								
Surface Soil (<3 m) Commercial Worker [non-drinking water source][1]								
Human Health Risk-Based			11,000	0.39	89	220	210 sat	69
Soil Leaching-Based for Protection of Aquatic Life			400	2.1	8.4	24	1	1
Urban Area Ecotoxicity-Based			--	25	150	--	--	--
Construction Worker[2]								
Human Health Risk-Based			16,000	16	520 sat	230 sat	210 sat	4900

Abbreviations and Methods:

ft = feet

mg/kg = milligrams per kilogram

-- = not available, not analyzed, or does not apply

MTBE = methyl tert-butyl ether by EPA Method 8020

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020 or 8021B

TPHg = total petroleum hydrocarbons as gasoline by EPA Methods modified 8015, 5030, and 8020 or 602

sat = saturation limit

Notes:

[1] Soil screening values from RWQCB's (2000) Table B-2.

[2] Soil screening values from RWQCB's (2000) Table K-3.

Bolded values indicate exceedance of soil screening values.

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Table 2: Soil Analytical Data - Heavy-Range Petroleum Hydrocarbons and SVOCs - 1275 Embarcadero, Oakland, CA

Sample ID	Date Sampled	Sample Depth (ft)	TPHd	TPHmo	bis(2-ethylhexyl) phthalate	Fluoranthene	2 - methyl naphthalene	Naphthalene	Pyrene
			←			mg/kg			→
Baseline Samples[1]									
RN-A1;1.5-2	05/01/01	1.5	--	--	--	--	--	< 0.0046	--
RN-A2;1-1.5	05/01/01	1.0	--	--	--	--	--	< 0.005	--
RN-A3;0.5-1	05/01/01	0.5	--	--	--	--	--	< 0.005	--
RN-A4;1.0-1.5	05/01/01	1.0	--	--	--	--	--	< 0.0046	--
RN-B1;1-1.5	05/01/01	1.0	--	--	--	--	--	< 0.0049	--
RN-B2;1-1.5	05/01/01	1.0	--	--	--	--	--	< 0.0047	--
SB-1;0.75-1.25	05/01/01	0.75	62[2]	--	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
SB-1;3-3.5	05/01/01	3.0	13[2]	--	0.61	< 0.33	< 0.33	< 0.33	< 0.33
SB-1A;0-0.5	05/02/01	0.0	240[2]	--	< 6.60	< 6.60	< 6.60	< 6.60	< 6.60
SB-1A;5-5.5	05/02/01	5.0	40[2]	--	< 0.33	< 0.33	2.2	2.2	< 0.33
SB-1B;1-1.5	05/02/01	1.0	60[2]	--	--	--	--	--	--
SB-2;1-1.5	05/01/01	1.0	43[2]	--	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
SB-2;4-4.5	05/01/01	4.0	43[2]	--	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
SB-2C;0-0.5	05/02/01	0.0	25[2]	--	--	--	--	--	--
SB-2C;3-3.5	05/02/01	3.0	37[2]	--	--	--	--	--	--
Cambria Samples									
SB-A-3.5	08/30/01	3.5	1.4	5.2	--	< 0.25	--	< 0.25	< 0.25
SB-B-3.5	08/30/01	3.5	< 1.0	< 5.0	--	< 0.062	--	< 0.062	< 0.062
SB-D-3.5	08/30/01	3.5	< 1.0	< 5.0	--	< 0.062	--	< 0.062	< 0.062
SB-E-3.5	08/30/01	3.5	2.4	6.1	--	< 0.062	--	< 0.062	< 0.062
SB-F-3.5	08/30/01	3.5	4.6	16	--	< 0.25	--	< 0.25	< 0.25
M-1-5	09/17/01	5.0	**850**	97	--	--	--	--	--
MW-1-8.3	10/09/01	8.3	5.7	< 5.0	< 0.33	< 0.33	< 0.33	< 0.33 / 0.58[3]	< 0.33
MW-2-5.0	10/09/01	5.0	74	300	< 1.0	< 1.0	< 1.0	< 1.0 / < 0.005[3]	< 1.0
MW-3-5.0	10/09/01	5.0	17	160	< 0.33	< 0.33	< 0.33	< 0.33 / < 0.005[3]	< 0.33
MW-4-5.3	10/09/01	5.3	8.3	10	< 0.33	< 0.33	< 0.33	0.62 / 0.62[3]	< 0.33
Soil Screening Values									
Surface Soil (<3 m) Commercial Worker [non-drinking water source][4]									
Human Health Risk-Based			11,000	11,000	180	6,000	280	5.7	11,000
Soil Leaching-Based for Protection of Aquatic Life			500	1,000	530	60	0.25	4.9	55
Urban Area Ecotoxicity-Based			--	--	--	40	--	40	--
Construction Worker[5]									
Human Health Risk-Based			16,000	16,000	1,200	12,000	18,000	450	16,000

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Table 2: Soil Analytical Data - Heavy-Range Petroleum Hydrocarbons and SVOCs - 1275 Embarcadero, Oakland, CA

Sample ID	Date Sampled	Sample Depth (ft)	TPHd	TPHmo	bis(2-ethylhexyl) phthalate	Fluoranthene	2 - methyl naphthalene	Naphthalene	Pyrene
			←			mg/kg			→

Abbreviations and Methods:

ft = feet

mg/kg = milligrams per kilogram

-- = not available, not analyzed, or does not apply

TPHd = total petroleum hydrocarbons as diesel by EPA method 8015

TPHd analyses with silica gel clean-up prior to extraction unless otherwise noted

TPHmo = total petroleum hydrocarbons as motor oil by EPA method 8015

SVOC = semi-volatile organic compounds by EPA Method 8270 (modified 8100) and 3550 or 625 and 3510 unless otherwise noted

Notes:

Only those compounds above laboratory reporting limits are shown

[1] Baseline samples analyzed for SVOCs by EPA Method 8260 or 8270

[2] No silica gel cleanup performed, prepared by shaker table.

[3] Analyzed by EPA Method 8270 and additionally by EPA Method 8260

[4] Soil screening values from RWQCB's (2000) Table B-2.

[5] Soil screening values from RWQCB's (2000) Table K-3.

Bolded values indicate exceedance of soil screening values.

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Table 3: Soil Analytical Data - Additional VOCs - 1275 Embarcadero, Oakland, CA

Sample ID	Date Sampled	Sample Depth (ft)	n-Butyl benzene	Isopropyl benzene	p-Isopropyl toluene	n-Propyl benzene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene
			← µg/kg →					
Cambria Samples								
MW-1-8.3	10/09/01	8.3	580	210	< 25	910	450	160
MW-2-5.0	10/09/01	5.0	18	< 5.0	11	17	26	11
MW-3-5.0	10/09/01	5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.7	< 5.0
MW-4-5 3	10/09/01	5.3	< 25	220	< 25	870	1,000	610
Soil Screening Values								
Surface Soil (<3 m) Commercial Worker [non-drinking water source]								
Human Health Risk-Based			--	--	--	--	--	--
Soil Leaching-Based for Protection of Aquatic Life			--	--	--	--	--	--
Urban Area Ecotoxicity-Based			--	--	--	--	--	--
Construction Worker								
Human Health Risk-Based			--	--	--	--	--	--

Abbreviations and Methods:

µg/kg = micrograms per kilogram

-- = not available, not analyzed, or does not apply

VOC = volatile organic compounds by EPA Method 8260

Notes:

Only those compounds above laboratory reporting limits are shown

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Table 4: Soil Analytical Data - Metals - 1275 Embarcadero, Oakland, CA

Sample ID	Date Sampled	Sample Depth (ft)	Barium (Ba)	Chromium (Cr) [1]	Hexavalent Chromium (Cr^{6+})	Cobalt (Co)	Copper (Cu)	Lead (Pb)	Nickel (Ni)	Vanadium (V)	Zinc (Zn)
			← mg/kg →								
Baseline Samples											
COMP A	04/23/01	2	41	22	--	5.3	17	24	25	20	40
SB-3; 0.5-1	05/01/01	0.5	--	--	<0.05	--	--	--	--	--	--
SB-3; 3.5-4	05/01/01	3.5	--	--	<0.05	--	--	--	--	--	--
Cambria Samples											
MW-1-8.3	10/09/01	8.3	110	56	--	12	15	2.6	64	33	29
Soil Screening Values											
Surface Soil (<3 m) Commercial Worker [non-drinking water source] [2]											
Human Health Risk-Based			2,400	610,000	1.8	24,000	15,000	1,000	1,000	2,900	120,000
Soil Leaching-Based for Protection of Aquatic Life			--	--	--	--	--	--	--	--	--
Urban Area Ecotoxicity-Based			1,500	750	8	80	225	--	150	200	600
Construction Worker [3]											
Human Health Risk-Based			2,400	800,000	1.8	32,000	20,000	1,000	1,000	3,700	160,000

Abbreviations and Methods:

ft = feet

mg/kg = milligrams per kilogram

-- = not available, not analyzed, or does not apply

Metal analyses (CAM / CCR 17) by EPA Method 6010

Baseline SB-3 samples analyzed for hexavalent chromium by EPA Method 7196

Notes:

Only those compounds above laboratory reporting limits are shown

COMP A is four-point composite of RN-A1, RN-A2, RN-A3, and RN-A4.

[1] For purposes of this analysis, we have assumed that the total chromium detected at the Site is in the trident form This asumption is consistent with the data collected at the Site (i.e., hexavalent chromium was not detected in samples from SB-3), and is based on our experience at similar industrial sites, where absent a source of hexavalent chromium, chromium in soils is typically found in the trivalent (reduced) form.

[2] Soil screening values from RWQCB's (2000) Table B-2.

[3] Soil screening values from RWQCB's (2000) Table K-3.

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Table 5: Groundwater Analytical and Elevation Data - Light-Range Petroleum Hydrocarbons and MTBE - 1275 Embarcadero, Oakland, CA

Sample ID *TOC* (ft)	Date Sampled	Groundwater Elevation (ft [1])	Depth to Water (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
				µg/L					
Baseline Grab Samples									
SB-1	05/01/01	--	--	**80,000**	**8,600**	**8,200**	**3,900**	**14,600**	--
SB-1A	05/02/01	--	--	**25,000**	**260**	170	**760**	**2,290**	--
SB-2	05/01/01	--	--	< 50	< 0.5	< 0.5	< 0.5	< 0.5	--
Cambria Grab Samples									
SB-A	08/30/01	--	--	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
SB-B	08/30/01	--	--	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
SB-D	08/30/01	--	--	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
SB-E	08/30/01	--	--	**39,000**	**3,200**	750	**1,200**	**3,600**	< 200
SB-F	08/30/01	--	--	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
Cambria Monitoring Well Samples									
MW-1	10/12/01	4.88	7.15	--	--	--	--	--	--
12.03	10/19/01	4.81	7.22	**11,000**	**900**	300	**470**	**1,000**	--
	12/05/01 [2]	5.33	6.70	**13,000**	**1,300**	180	**1,200**	**860**	< 20
	12/05/01 [3]	4.74	7.29	3,100	**270**	12	150	74	< 5.0
	12/19/01 [4]	4.95	7.08	--	--	--	--	--	--
MW-2	10/12/01	5.71	5.75	--	--	--	--	--	--
11.46	10/19/01	5.52	5.94	< 50	< 0.5	< 0.5	< 0.5	< 0.5	--
	12/05/01 [2]	6.11	5.35	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	12/05/01 [3]	5.66	5.80	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	12/19/01 [4]	5.65	5.81	--	--	--	--	--	--
MW-3	10/12/01	5.89	6.60	--	--	--	--	--	--
12.49	10/19/01 [5]	5.84	6.65	290	2.0	6.6	0.54	1.2	--
	12/05/01 [2,5]	6.69	5.8	310	0.72	2.2	< 0.5	< 0.5	< 5.0
	12/05/01 [3,5]	5.54	6.95	320	0.84	2.6	< 0.5	0.76	< 5.0
	12/19/01 [4]	6.10	6.39	--	--	--	--	--	--
MW-4	10/12/01	4.98	8.15	--	--	--	--	--	--
13.13	10/19/01	4.91	8.22	**44,000**	**1,900**	270	**1,500**	**3,300**	--
	12/05/01 [2]	5.61	7.52	**13,000**	**120**	28	170	**380**	< 10
	12/05/01 [3]	5.08	8.05	**20,000**	**420**	78	390	**870**	< 20
	12/19/01 [4]	5.09	8.04	--	--	--	--	--	--
Trip Blank				--	--	--	--	--	--
TB	12/05/01	--	--	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
				--	--	--	--	--	--

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Table 5: Groundwater Analytical and Elevation Data - Light-Range Petroleum Hydrocarbons and MTBE - 1275 Embarcadero, Oakland, CA

Sample ID	Date Sampled	Groundwater Elevation	Depth to Water	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
TOC (ft)		(ft [1])	(ft)	← µg/L →					
Groundwater Screening Values [6]									
Indoor Air Impacts				--	84	76,000	170,000 sol	150,000	290000
Aquatic Life Protection				3,700 [a]	700 [b]	5,000 [b]	430 [c]	13 [d]	8,000 [e]

Abbreviations and Methods:

ft = feet

µg/L = micrograms per liter

-- = not available, not analyzed, or does not apply

msl = mean sea level

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

MTBE = methyl tert-butyl ether by EPA Method 8020

TPHg = total petroleum hydrocarbons as gasoline by EPA Methods modified 8015, 5030, and 8020 or 602

TOC Elev. (ft) = top of casing elevation in feet (Port of Oakland datum)

Depth to water in monitoring wells is ft below TOC.

sol = solubility threshold

Notes:

[1] Elevation in feet, Port of Oakland datum

[2] Wells gauged between 6:00 am and 6:30 am on 12/5 near lower high tide.

[3] Wells gauged between 11:40 am and 12:00 pm on 12/5 near higher high tide.

[4] Wells gauged between 9:00 pm and 9:15 pm on 12/19 at lower low tide.

[5] Sample was collected pre-purge.

[6] Goundwater screening values from RWQCB's (2000) Table F-2, F-4a, b, and c.

Bolded values indicate exceedance of groundwater screening values.

[a] California Toxic Rule, Saltwater Criteria for Continuous Concentration

[b] USEPA Saltwater Chronic Lowest Observable Effect Level

[c] USEPA Saltwater Acute Lowest Observable Effect Level

[d] USDOE Freshwater Chronic Preliminary Remedial Goal

[e] RWQCB Saltwater Criteria for Continuous Concentration (interim)

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Table 6: Groundwater Analytical and Elevation Data - Heavy-Range Petroleum Hydrocarbons and SVOCs - 1275 Embarcadero, Oakland, CA

Sample ID *TOC* *(ft)*	Date Sampled	Groundwater Elevation (ft [1])	Depth to Water (ft)	TPHd	TPHmo	Acenaph-thalene	bis(2-ethylhexyl) phthalate	Fluoran-thene	1 - methyl-naphthalene	2 - methyl naphthalene	Naph-thalene	Phenan-threne	Pyrene
				←				µg/L					→
Baseline Grab Samples													
SB-1	05/01/01	--	--	2,900	--	< 94	< 94	< 94	--	260	610	< 94	< 94
SB-1A	05/02/01	--	--	800	--	<9.6	<9.6	<9.6	--	130	170	<9.6	<9 6
SB-2	05/01/01	--	--	180	--	< 9.7	< 9.7	< 9.7	--	< 9.7	< 9.7	< 9.7	< 9 7
Cambria Grab Samples													
SB-A	08/30/01	--	--	1,500	7,200	< 10	--	< 10	--	--	< 10	< 10	< 10
SB-B	08/30/01	--	--	63	550	< 10	--	< 10	--	--	< 10	< 10	< 10
SB-D	08/30/01	--	--	1,100	3,400	< 10	--	11	--	--	< 10	< 10	11
SB-E	08/30/01	--	--	5,800	350	< 50	--	< 50	--	--	370	< 50	< 50
SB-F	08/30/01	--	--	480	1,400	< 10	--	< 10	--	--	< 10	< 10	< 10
Cambria Monitoring Well Samples													
MW-1	10/12/01	4.88	7.15	--	--	--	--	--	--	--	--	--	--
12.03	10/19/01	4.81	7.22	3,300	< 250	< 10	< 10	< 10	--	54	66	< 10	< 10
	12/05/01 [2]	5.33	6.70	3,800	< 250	72	--	< 10	150	220	360	< 10	< 10
	12/05/01 [3,4]	4.74	7.29	680	< 250	9.6	--	< 1.0	18	14	22	1.3	< 1.0
	12/19/01 [5]	4.95	7.08	--	--	--	--	--	--	--	--	--	--
MW-2	10/12/01	5.71	5.75	--	--	--	--	--	--	--	--	--	--
11.46	10/19/01	5.52	5.94	210	460	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10
	12/5/01 [2]	6.11	5.35	150	560	< 0.5	--	< 0.25	< 1.0	< 1.0	< 0.25	< 0.25	< 0.25
	12/05/01 [3,4]	5.66	5.80	75	270	< 0.5	--	< 0.25	< 1.0	< 1.0	< 0.25	< 0.25	< 0.25
	12/19/01 [5]	5.65	5.81	--	--	--	--	--	--	--	--	--	--
MW-3	10/12/01	5.89	6.60	--	--	--	--	--	--	--	--	--	--
12.49	10/19/01 [6]	5.84	6.65	1,600	1,300	< 25	< 25	< 25	--	670	420	< 25	< 25
	12/05/01 [2,6]	6.69	5.80	480	480	< 0.5	--	< 0.25	< 1.0	< 1.0	< 0.25	< 0.25	< 0.25
	12/05/01 [3,6]	5.54	6.95	530	550	< 0.5	--	< 0.25	< 1.0	< 1 0	< 0.25	< 0.25	0.31
	12/19/01 [5]	6.10	6.39	--	--	--	--	--	--	--	--	--	--
MW-4	10/12/01	4.98	8.15	--	--	--	--	--	--	--	--	--	--
13.13	10/19/01	4.91	8.22	33,000	900	< 50	< 50	< 50	--	< 50	< 50	< 50	< 50
	12/05/01 [2]	5.61	7.52	6,400	430	24	--	< 10	99	190	60	18	< 10
	12/05/01 [3]	5.08	8.05	5,400	450	21	--	< 10	100	180	96	12	< 10
	12/19/01 [5]	5.09	8.04	--	--	--	--	--	--	--	--	--	--

CAMBRIA

Table 6: Groundwater Analytical and Elevation Data - Heavy-Range Petroleum Hydrocarbons and SVOCs - 1275 Embarcadero, Oakland, CA

Sample ID *TOC* *(ft)*	Date Sampled	Groundwater Elevation (ft [1])	Depth to Water (ft)	TPHd	TPHmo	Acenaph-thalene	bis(2-ethylhexyl) phthalate	Fluoran-thene	1 - methyl-naphthalene	2 - methyl naphthalene	Naph-thalene	Phenan-threne	Pyrene
				←				µg/L					→
Groundwater Screening Values [7]													
Indoor Air Impacts				--	--	--	--	--	26,000 sol	26,000 sol	9,200	--	135 sol
Aquatic Life Protection				640 [a]	640 [a]	310 [g]	32 [b]	11 [c]	2.1 [d]	2.1 [d]	2,350 [e]	4.6 [f]	300 [e]

Abbreviations and Methods:

ft = feet

µg/L = micrograms per liter

-- = not available, not analyzed, or does not apply

msl = mean sea level

TOC Elev. (ft) = top of casing elevation in feet (Port of Oakland datum)

TPHd analyses with silica gel clean-up prior to extraction

TPHmo = total petroleum hydrocarbons as motor oil by EPA method 8015

SVOC = semi-volatile organic compound analyses performed by EPA Method 8270 (modified 8100) and 3550 unless otherwise noted

TPHd = total petroleum hydrocarbons as diesel by EPA method 8015, and 3550 or 3510

Only those compounds above laboratory reporting limits are shown

Depth to water in monitoring wells is ft below TOC.

sol = solubility threshold

Notes:

[1] Elevation in feet, Port of Oakland datum

[2] Wells gauged between 6:00 am and 6:30 am on 12/5 near lower high tide.

[3] Wells gauged between 11:40 am and 12:00 pm on 12/5 near higher high tide.

[4] SVOC extraction performed past standard 7day hold time per SW-846 Table 2-36 Revision 3, 12/96.

[5] Wells gauged between 9:00 pm and 9:15 pm on 12/19 at lower low tide.

[6] Sample was collected pre-purge.

[7] Goundwater screening values from RWQCB's (2000) Table F-2, F-4a, b, and c.

Bolded values indicate exceedance of groundwater screening values.

[a] RWQCB Saltwater and Freshest Water Criteria

[b] USEPA Freshwater Chronic Ecotoxicity Criteria

[c] USEPA Saltwater Chronic Ecotoxicity Criteria

[d] USDOE Freshwater Chronic Preliminary Remedial Goal

[e] USEPA Saltwater Acute Lowest Observable Effect Level

[f] USEPA Saltwater Crierion for Continuous Concentration

[g] Ontario Ministry of Environment and Energy Drinking Water Screening Level

CAMBRIA

Table 7: Goundwater Analytical and Elevation Data - Metals - 1275 Embarcadero, Oakland, CA

Sample ID	Date Sampled	Groundwater Elevation (ft [1])	Depth to Water (ft)	Antimony (Sb)	Arsenic (As)	Barium (Ba)	Beryl-lium (Be)	Cad-mium (Cd)	Chro-mium (Cr)	Cobalt (Co)	Copper (Cu)	Lead (Pb)	Mercury (Hg)	Molyb-denum (Mo)	Nickel (Ni)	Sele-nium (Se)	Silver (Ag)	Thallium (Tl)	Vana-dium (V)	Zinc (Zn)
				←								ug/L								→
Cambria Samples																				
MW-1	12/07/01 [2]	6.85	5.18	< 6	5.7	57	< 4	< 5	< 20	< 50	< 50	5.3	< 0.8	< 50	< 50	< 5	< 10	< 5	< 50	< 50
MW-1	12/07/01 [3]	7.15	4.88	< 6	< 5	51	< 4	< 5	< 20	< 50	< 50	< 5	< 0.8	< 50	< 50	< 5	< 10	< 5	< 50	50

Abbreviations and Methods:

ft = feet

ug/L = micrograms per liter

Metal analyses (CAM / CCR 17) by EPA Method 6010

Notes:

Only those compounds above laboratory reporting limits are shown

[1] Elevation in feet, Port of Oakland datum

[2] Gauged at 5.40 am on 12/7 near higher high tide

[3] Gauged at 11.40 am on 12/7 near lower high tide

APPENDIX E

Tables and Figures from Alisto Engineering Group's *Tank Closure Report* (December 1994)

This appendix contains the following tables and figures from the Alisto (1994) report:

Figure 2 Soil Sample Location Map

Table 1 Summary of Results of Soil Sampling
Table 2 Summary of Results of Groundwater Sampling

This appendix also contains a copy of the ACHCSA letter entitled *Recommendation for No Further Work at 1363 Embarcadero, Oakland, CA 94606* (January 1995).

TANK CLOSURE REPORT

Port of Oakland Tank PF-01
1363 Embarcadero
Oakland, California

Project No. 10-236-01-004

Prepared for:

Port of Oakland
530 Water Street
Oakland, California

Prepared by:

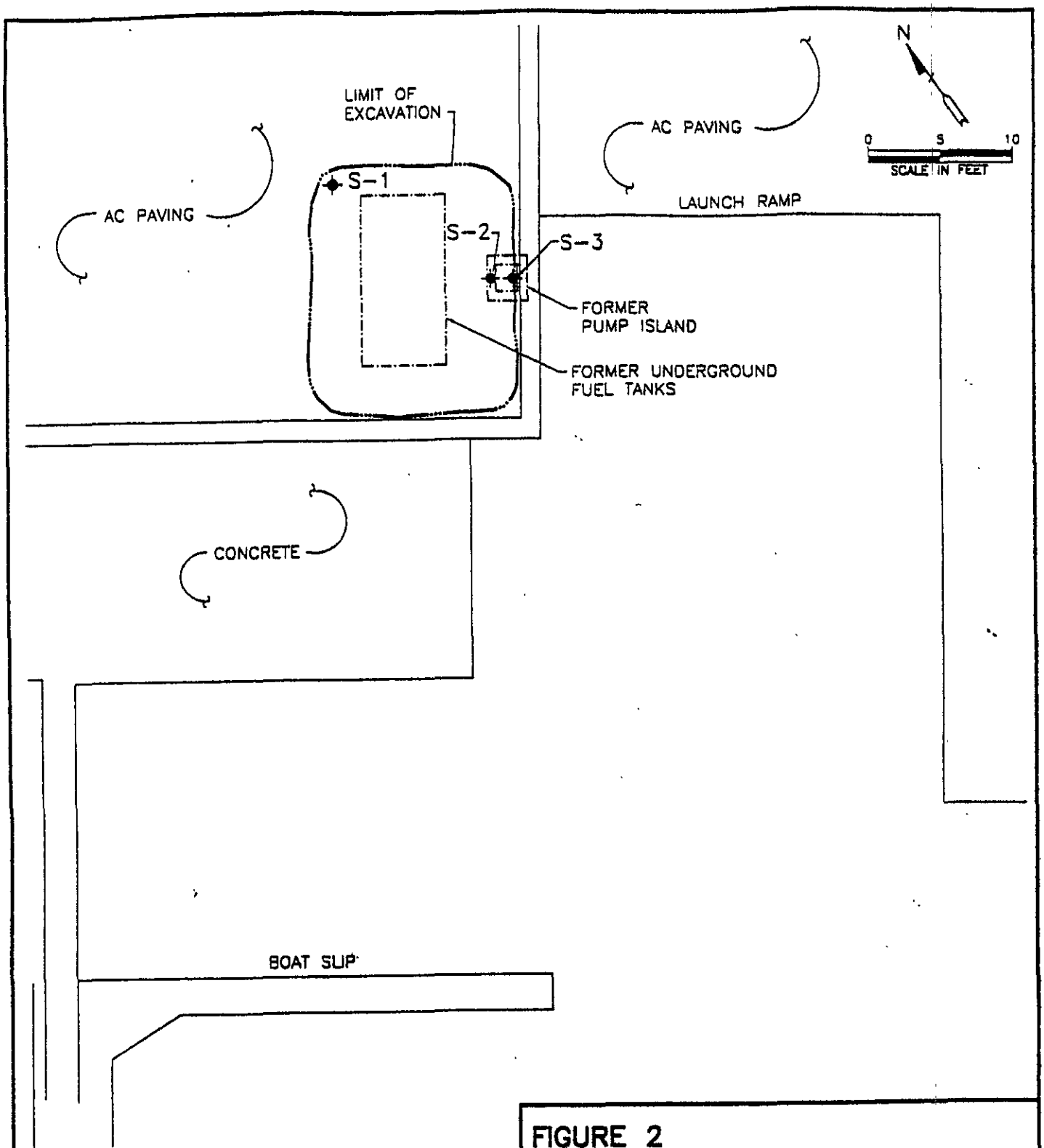
Alisto Engineering Group
1777 Oakland Boulevard, Suite 200
Walnut Creek, California

December 29, 1994

Brady Nagle
Project Manager

Al Sevilla, P.E.
Principal

REGISTERED PROFESSIONAL ENGINEER
ALBERTO SANCHEZ SEVILLA
23392
Exp. Date 3/31/96
CIVIL
STATE OF CALIFORNIA



LEGEND

✦ SOIL SAMPLE

FIGURE 2

SOIL SAMPLE LOCATION MAP

PORT OF OAKLAND TANK PF-01
1363 EMBARCADERO
OAKLAND, CALIFORNIA

PROJECT NO. 10-236

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

TABLE 1 - SUMMARY OF RESULTS OF SOIL SAMPLING
PORT OF OAKLAND TANK No. PF-01
1363 EMBARCADERO, OAKLAND, CALIFORNIA

PROJECT NO. 10-236

SAMPLE ID	SAMPLE DEPTH (fbg)	DATE OF SAMPLING	TPH-G (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TOTAL LEAD (mg/kg)	LAB
S-1	5	10/26/94	ND<0.3	ND<0.005	ND<0.005	ND<0.005	ND<0.005	27	CE
S-2	5	10/26/94	1.6	ND<0.005	ND<0.005	ND<0.005	0.007	280	CE
S-3	5	11/08/94	—	—	—	—	—	35	CE
SP-1, SP-2 SP-3, SP-4	1	10/26/94	ND<0.3	ND<0.005	ND<0.005	ND<0.005	ND<0.005	5	CE

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
fbg	Feet below grade
mg/kg	Milligrams per kilogram
ND	Not detected above reported detection limit
—	Not analyzed
CE	Clayton Environmental

E10\10-238\TANKSOIL.WQ2

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
PORT OF OAKLAND TANK No. PF-01
1363 EMBARCADERO, OAKLAND, CALIFORNIA

PROJECT NO. 10-236

SAMPLE ID	DATE OF SAMPLING	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOTAL LEAD (mg/L)	DISSOLVED LEAD (mg/L)	LAB
TANK PIT-1	10/26/94	460	14	74	15	92	1.7	---	CE
TANK PIT-2	11/08/94	---	---	---	---	---	ND<0.05	ND<0.05	CE

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
ug/L	Micrograms per liter
mg/L	Milligrams per liter
---	Not analyzed
CE	Clayton Environmental

E:\010-236\TANKWATE.WQ2

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
ALAMEDA COUNTY CC4580
DEPT. OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577

January 20, 1995
StID # 197

Port of Oakland
Mr. Dan Schoenholz
530 Water St.
P.O. Box 2064
Oakland CA 94604-2064

Re: Recommendation for No Further Work at 1363 Embarcadero, Oakland CA 94606

Dear Mr. Schoenholz:

This letter is to inform you that no further work will be required by our division at the above reference site in regards to the removal of the 2000 gallon gasoline tank, PF-01. Our office has received and reviewed the underground tank closure report dated December 29, 1994 prepared by Alisto Engineering Group. There appears to have been a minor fuel release which our office feels will not have any adverse affect on human or environmental health.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at this site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site, which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

You may contact me at (510) 567-6765 should you have any questions regarding this letter.

Sincerely,

Barney M Chan

Barney M. Chan
Hazardous Materials Specialist

cc: E. Howell, file
SO-1363

APPENDIX G

Various Information Regarding the 1441 Embarcadero Property

This appendix contains the following information regarding the 1441 Embarcadero Property:

Versar Figure 2 – Site Layout (from Versar's *Site Assessment Report* (May 1996)

Versar Figure 3 – Sample Locations (Versar figure included in ACHCSA 2000d)

Versar Table 1 – Summary of Analytical Laboratory Analysis (Versar figure included in ACHCSA 2000d)

Versar Figure 4 – Proposed Areas of Excavation – Western Section (from Versar's *Addendum to Phase II Site Investigation Work Plan* (September 1992))

ACHCSA letter re: *Phase II Site Investigation Work Plan* dated March 16, 1992.

Versar Table 4 – Laboratory Analytical Results for Soils

Gauntlett Table 4 – Historical Groundwater Chemistry Data (from Gauntlett Group's *Self Monitoring Report (March 1997)*

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APPENDIX F (continued)

Various Information Regarding the 1441 Embarcadero Property

Versar Figure 7 – Tank and Piping Locations (Versar figure included in ACHCSA 2000d)

Versar Table 5 – Laboratory Analytical Results for Soil (Versar table included in ACHCSA 2000d)

Versar Table 6 – Laboratory Analytical Results for Groundwater (Versar table included in ACHCSA 2000d)

From Geomatrix's *Site Evaluation Report* (April 1997):

Table 4 – Soil Analytical Results – Metals
Table 5 – Soil Analytical Results – Organic Compounds
Table 6 – Groundwater Analytical Results
Figure 4 – Soil and Groundwater Sample Locations, Western Portion
Figure 5 – Soil and Groundwater Sample Locations, Eastern Portion
Figure 6 – Soil Analytical Results, Metals, 0 to 5 Feet bgs, Western Portion
Figure 7 – Soil Analytical Results, Metals, 5 to 10 Feet bgs, Western Portion
Figure 8 – Soil Analytical Results, Petroleum Hydrocarbons, 0 to 5 Feet bgs, Western Portion
Figure 9 – Soil Analytical Results, Petroleum Hydrocarbons, 5 to 12 Feet bgs, Western Portion
Figure 10 – Soil Analytical Results, Metals, 0 to 5 Feet bgs, Eastern Portion
Figure 11 – Soil Analytical Results, Metals, 5 to 10 Feet bgs, Eastern Portion
Figure 12 – Soil Analytical Results, Petroleum Hydrocarbons, 0 to 5 Feet bgs, Eastern Portion
Figure 13 – Soil Analytical Results, Petroleum Hydrocarbons, 5 to 12 Feet bgs, Eastern Portion
Figure 14 – Summary of Groundwater Sampling Analytical Results, Western Portion
Figure 15 – Summary of Groundwater Sampling Analytical Results, Eastern Portion

APPENDIX F (continued)

Various Information Regarding the 1441 Embarcadero Property

Geomatrix Table 3 – Recommended Additional Soil and Groundwater Sampling and Analysis (Geomatrix table included in the Port of Oakland's 1997 letter to the ACHCSA and RWQCB)

ACHCSA *Fuel Leak Site Case Closure* letter dated January 7, 2000.

ACHCSA *Remedial Action Completion Certification* dated January 7, 2000.

APPENDIX G (continued)

Various Information Regarding the 1441 Embarcadero Property

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Figure 11 – Soil Analytical Results, Metals, 5 to 10 Feet bgs, Eastern Portion
Figure 12 – Soil Analytical Results, Petroleum Hydrocarbons, 0 to 5 Feet bgs, Eastern Portion
Figure 13 – Soil Analytical Results, Petroleum Hydrocarbons, 5 to 12 Feet bgs, Eastern Portion
Figure 14 – Summary of Groundwater Sampling Analytical Results, Western Portion
Figure 15 – Summary of Groundwater Sampling Analytical Results, Eastern Portion

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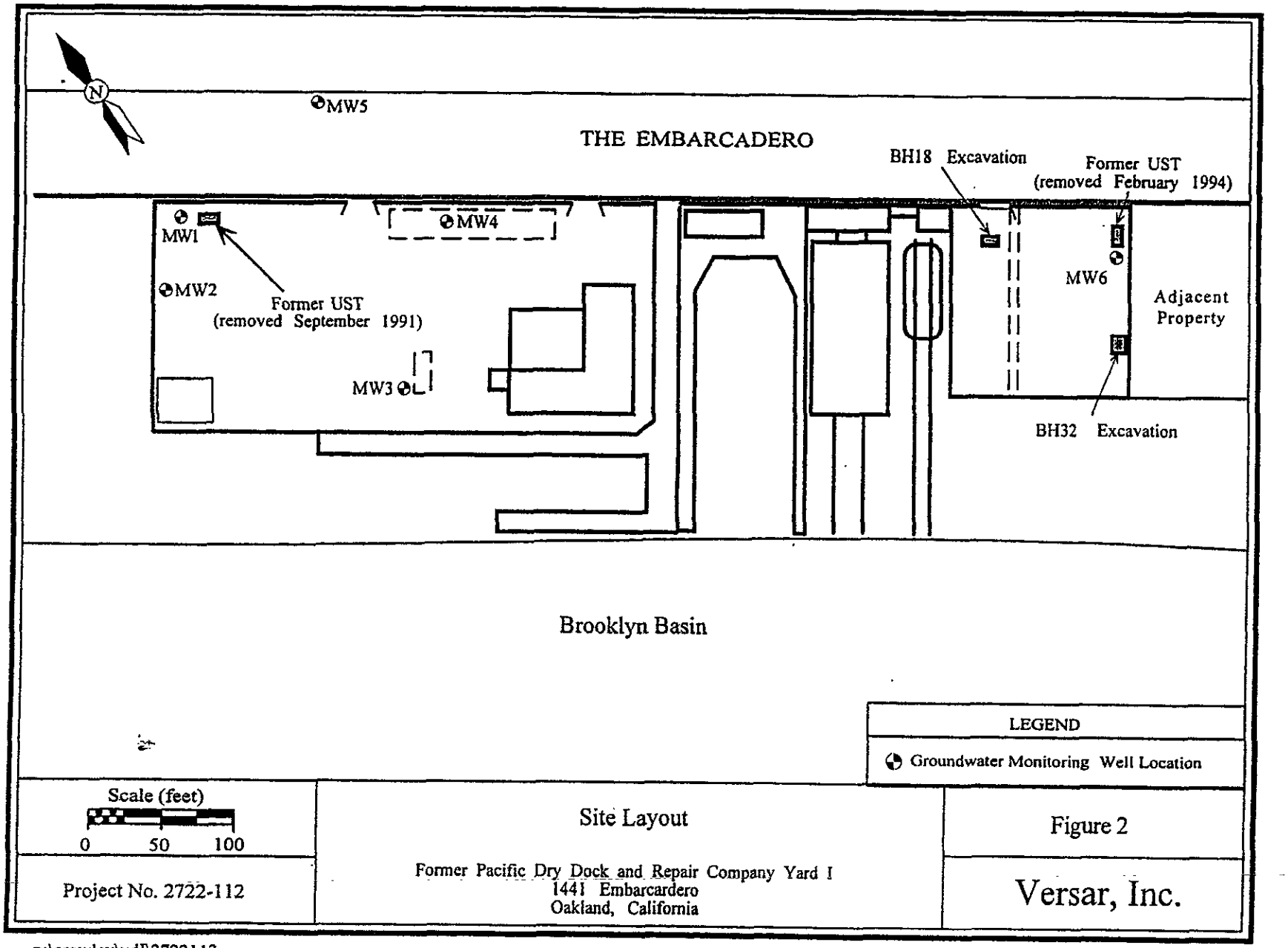

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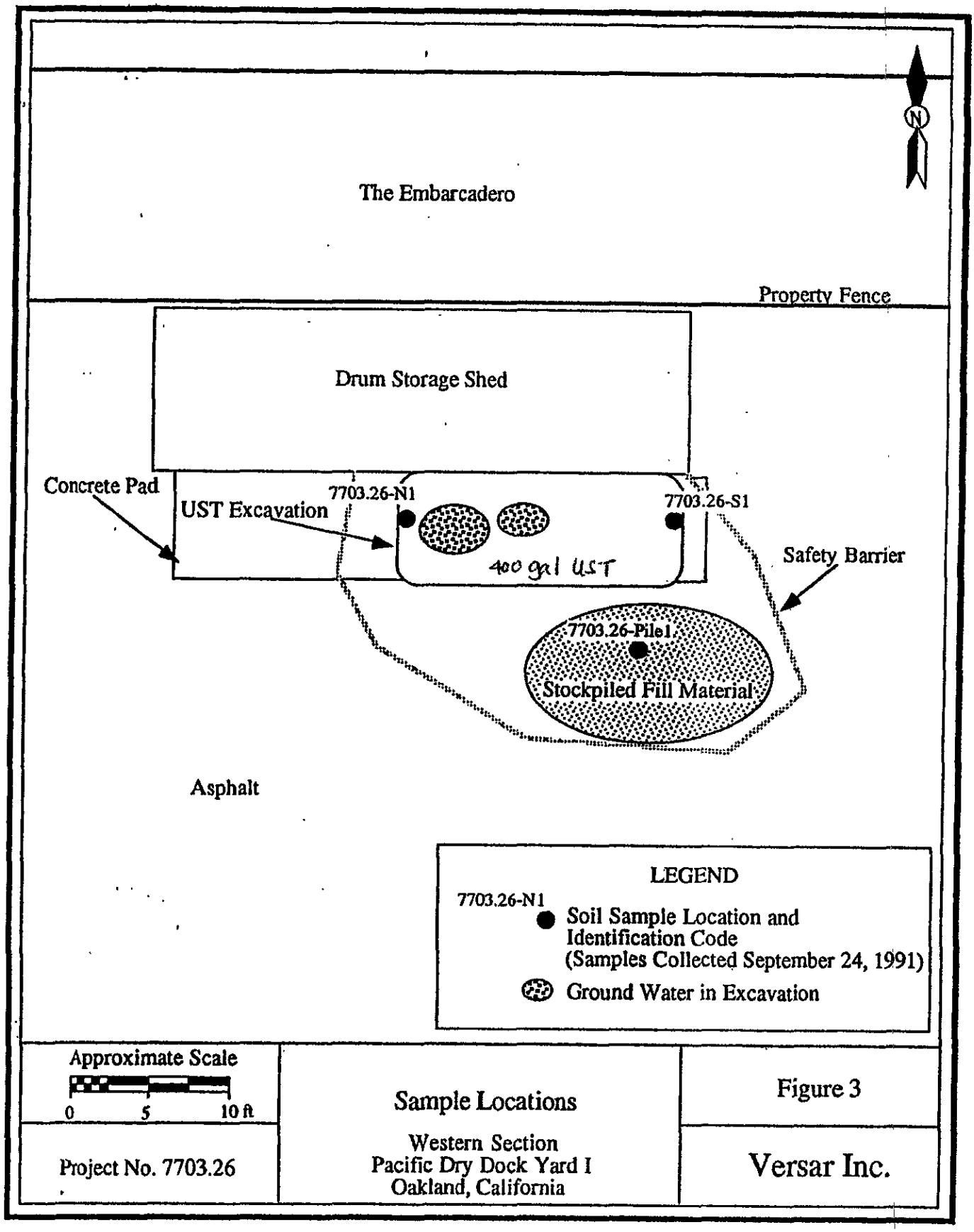

N
The Embarcadero
Property Fence
Drum Storage Shed
Concrete Pad
UST Excavation
7703.26-N1
7703.26-S1
400 gal UST
Safety Barrier
7703.26-Pile1
Stockpiled Fill Material
Asphalt
LEGEND
7703.26-N1
Soil Sample Location and Identification Code (Samples Collected September 24, 1991)
Ground Water in Excavation
Approximate Scale
0
5
10 ft
Sample Locations
Western Section
Pacific Dry Dock Yard I
Oakland, California
Figure 3
Project No. 7703.26
Versar Inc.

Versar

Table 1

Summary of Analytical Laboratory Analysis[1]

Pacific Dry Dock and Repair Yard I
Oakland, California

400 gal gas UST

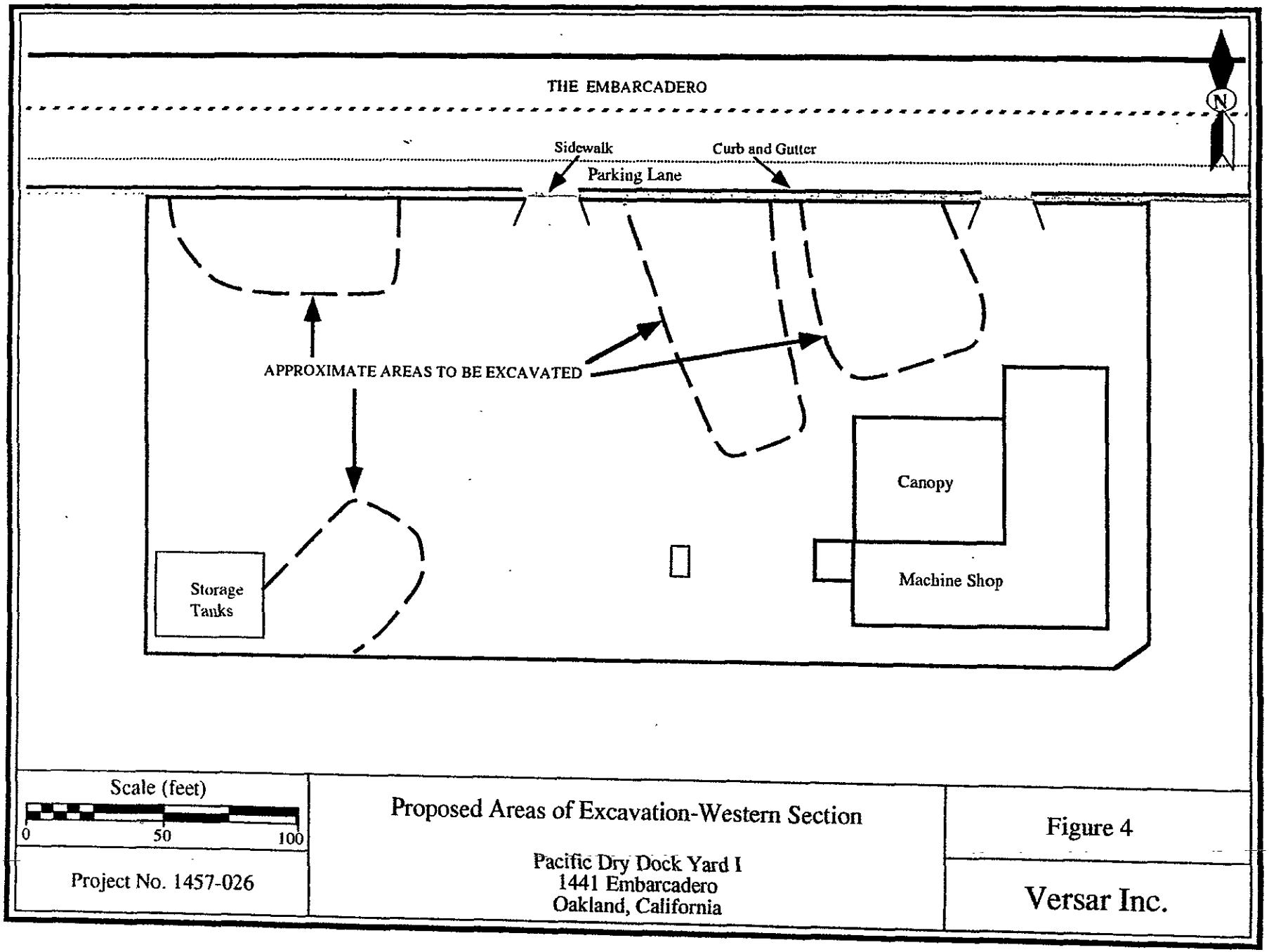
Sample No.	Date of Sampling	Medium	TPH-G[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Xylenes[3]	Organic Lead[4]
7703.26-N1	9/24/91	Soil	11,000	1,100	110	460	850	<500
7703.26-S1	9/24/91	Soil	130,000	2,000	1,400	3,800	3,800	950
7703.26-Pile1	9/24/91	Soil	13,000	620	110	1,100	6,200	4,400
7703.26-Water	9/24/91	Water	34,000,000	<9,400	170,000	480,000	1,900,000	390

[1]All results reported in micrograms per kilogram for soils, and micrograms per liter for water (ppb)

[2]Total Petroleum Hydrocarbons as Gasoline by DHS Method; detection limit dependant on sample

[3]Analytical method - EPA Method 8020/602; detection limit dependant on sample

[4]Analytical method - DHS Method; detection limit 500 micrograms per kilogram for soils and 100 micrograms per liter for water.



Proposed Areas of Excavation-Western Section

Pacific Dry Dock Yard I
1441 Embarcadero
Oakland, California

Project No. 1457-026

Figure 4

Versar Inc.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

March 16, 1992
STID # 1420

Mr. George Brooks
Mgr. Environmental Control
Crowley Maritime Corporation
2401 Fourth Ave.
P.O. Box 2287
Seattle, Washington 98111

RECEIVED
MAR 20 1992
Ans'd.....

Re: Phase II Site Investigation Work Plan for Pacific Dry Dock Yard I, Western Section at 1441 Embarcadero, Oakland CA 94606

Dear Mr. Brooks:

Our office has received and reviewed the work plan for the Phase II Site Assessment at the western section of Yard I at Pacific Dry Dock. This report also includes the results of the initial site assessment performed on this area consisting of borings and grab water samples and chemical analysis. This Phase II work plan was developed from the results of the initial site assessment and through a conversation I had with Mr. Lawrence Kleinecke of Versar Inc. The general approach of excavation to the stated limits of: 1 parts per billion (ppb) for total benzene, toluene, ethyl benzene and xylenes (BTEX), 10 parts per million (ppm) for total petroleum hydrocarbons as gasoline (TPHg), 100 ppm for total petroleum hydrocarbons as diesel (TPHd) and 1000 ppm for total oil and grease (TOG) is acceptable.

Please note however, these limits may have an effect on the required length of ground water monitoring prior to recommendation for site sign-off to the Regional Water Board. Certainly, when at all possible, non-detectable levels of all hydrocarbons is preferable and allows for shorter ground water monitoring requirements.

Upon review of the analytical results in this report a number of items require clarification. These items include:

1. In the approval to the initial site assessment, it was agreed that at least one water and one soil sample near the former waste oil tank was to be analyzed for chlorinated hydrocarbons by Method 8010 or 8240 and analyzed for semi-volatiles by Method 8270. It appears that this minimum sample has not been analyzed. If this is the case, a water and soil sample from the monitoring well proposed in this area should be run for these parameters.

2. It was noticed that a number of borings were not run for any hydrocarbons analysis. The borings include BH42-BH45, BH20-BH21 and BH23-BH26. It is assumed that these samples did not show field observations which may have indicated potential contamination and were therefore not run. Please explain the reasoning for the absence of these analyses.

3. The proposed monitoring well locations are acceptable with the condition that after ground water gradient has been determined, a monitoring well should be located downgradient to all significant water or soil contaminant locations.

It was suggested that soil and ground water samples, which depict the estuary water and soil, be analyzed similarly for the parameters found on this site. In addition, total dissolved solids should be run in an attempt to establish the current water quality and likely long term affect of any residual hydrocarbon contamination left on site.

Upon clarification of the above items, you may proceed with the proposed Phase II Site Investigation. Please contact me at (510) 271-4320 should you have any questions.

Sincerely,

Barney M. Chan

Barney M. Chan
Hazardous Materials Specialist

cc: M. Thomson, Alameda County District Attorney Office
R. Hiett, RWQCB
L. Kleinecke, Versar Inc.
H. Hatayama, DOHS
D. Schoenholtz, Port of Oakland

PhaseII1441

Laboratory Analytical Results for Soils
(Petroleum Hydrocarbons)

Pacific Dry Dock Yard I
Oakland, California

Versar Table 4.

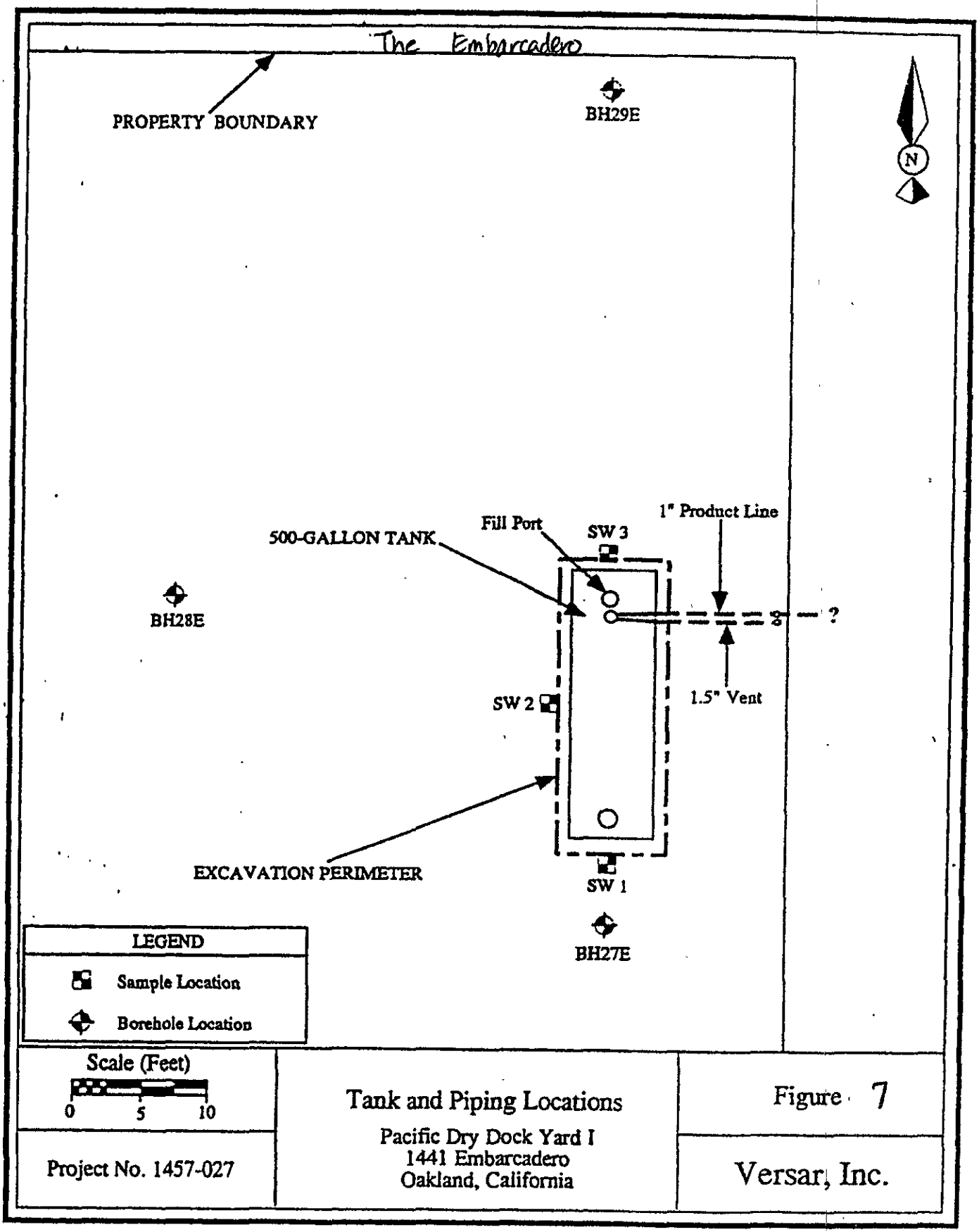
Sample Number	Sample Depth (feet)	Sample Collection Date	Total Petroleum Hydrocarbons DHS Method LUFT Field Manual		O&G Hydrocarbons EPA Method 5520CF	Volatile Organics Modified EPA Method 8020			
			Gasoline (mg/kg)	Diesel (mg/kg)	Oil and Grease (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
MW1-2.0	2.0-2.5	6/23/93	11	2.6	710	<0.012	0.10	<0.018	<0.048
MW1-5.5	5.5-6.0	6/23/93	1.4	20	7,800	0.110	0.810	0.019	0.096
MW2-2.5	2.5-3.0	6/23/93	0.580	2.2	790	<0.005	0.170	<0.005	<0.015
MW2-5.5	5.5-6.0	6/23/93	<0.5	1.1	<50	<0.005	0.043	<0.005	<0.015
MW3-2.0	2.0-2.5	6/24/93	<0.5	2.2	<50	<0.005	0.0046	<0.006	<0.015
MW3-5.5	5.5-6.0	6/24/93	<0.5	32	<50	<0.005	<0.005	<0.005	<0.015
MW4-1.5	1.5-2.0	6/23/93	<0.5	<1.0	<50	<0.005	0.031	<0.005	<0.015
MW4-5.5	5.5-6.0	6/23/93	17	3,000	440	<0.036	0.078	0.130	0.30
MW5-2.0	2.0-2.5	6/24/93	<0.5	<1.0	<50	<0.005	0.094	<0.005	<0.015
MW5-5.5	5.5-6.0	6/24/93	<0.5	<1.0	<50	<0.005	0.022	<0.005	<0.015

Gauntlett TABLE 4

Historical Groundwater Chemistry Data
Former Pacific Dry Docks and Repair Company Yard I
Port of Oakland, California

Groundwater Monitoring Well	Sample Date	TPH-G[1] (µg/L)[3]	TPH-D[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Filtered Lead (mg/L)[4]
MW-1	07/01/93	ND[5]	ND	ND	ND	ND	ND	NA[6]
	10/14/93	ND	63	ND	ND	ND	ND	NA
	01/18/94	ND	60	NA	1.0	1.4	1.5	NA
	03/30/94	ND	110	2.5	1.7	0.56	1.9	NA
	07/15/94	ND	60	ND	ND	ND	ND	NA
	10/19/94	ND	830	ND	ND	ND	ND	NA
	02/02/95	ND	ND	ND	ND	ND	ND	NA
	05/03/95	ND	78	1.6	0.58	ND	ND	NA
	09/07/95	ND	ND	ND	ND	ND	ND	NA
	03/05/96	ND	320	7.5	ND	ND	ND	ND
	03/28/97	ND	440[7]	ND	ND	ND	ND	<0.05[8]
MW-2	07/01/93	ND	ND	ND	ND	ND	ND	NA
	10/14/93	ND	ND	ND	ND	ND	ND	NA
	01/18/94	ND	ND	ND	ND	ND	ND	NA
	03/30/94	ND	ND	ND	2.2	ND	ND	NA
	07/15/94	ND	ND	ND	ND	ND	ND	NA
	03/05/96	ND	53	ND	ND	ND	ND	ND
	03/28/97	ND	ND	ND	ND	ND	ND	ND
MW-3	07/01/93	ND	ND	ND	ND	ND	ND	NA
	10/14/93	ND	840	ND	ND	ND	ND	NA
	01/18/94	ND	64	ND	ND	ND	ND	NA
	03/30/94	ND	ND	ND	0.90	ND	ND	NA
	07/15/94	ND	ND	ND	ND	ND	ND	NA
	10/19/94	ND	ND	ND	ND	ND	ND	NA
	02/02/95	100	ND	38	0.55	ND	ND	NA
	05/03/95	ND	ND	ND	ND	ND	ND	NA
	09/07/95	ND	ND	ND	ND	ND	ND	NA
	03/05/96	ND	ND	ND	ND	ND	ND	ND
	03/28/97	ND	230[7]	ND	ND	ND	ND	<0.05[8]
MW-4	07/01/93	ND	ND	ND	ND	ND	ND	NA
	10/14/93	ND	ND	ND	ND	ND	ND	NA
	01/18/94	ND	ND	ND	ND	ND	ND	NA
	03/30/94	ND	ND	ND	1.5	ND	1.5	NA
	07/15/94	ND	ND	ND	ND	ND	ND	NA
	03/05/96	ND	ND	ND	ND	ND	ND	ND
	03/28/97	ND	340[7]	ND	ND	ND	ND	ND
MW-5	07/01/93	ND	ND	ND	ND	ND	ND	NA
	10/14/93	ND	ND	ND	ND	ND	ND	NA
	01/18/94	ND	ND	ND	ND	ND	ND	NA
	03/30/94	ND	ND	ND	0.87	ND	ND	NA
	07/15/94	ND	ND	ND	ND	ND	NA	NA
	03/05/96	ND	98	ND	ND	ND	ND	ND
	03/28/97	ND	ND	ND	ND	ND	ND	ND
MW-6	03/05/96	ND	77	ND	ND	ND	ND	ND
	03/28/97	ND	ND	ND	ND	ND	ND	ND

1 TPH-G = Total Petroleum Hydrocarbons as Gasoline
2 TPH-D = Total Petroleum Hydrocarbons as Diesel
3 (µg/L) = micrograms per liter
4 (mg/L) = milligrams per liter
5 ND = not detected at or above method reporting limit
6 NA = not analyzed
7 Diesel in sample appeared to be weathered
8 The method reporting limit was elevated because of matrix interferences


The Embarcadero
PROPERTY BOUNDARY
BH29E
N
1" Product Line
Fill Port
SW 3
500-GALLON TANK
BH28E
?
SW 2
1.5" Vent
EXCAVATION PERIMETER
SW 1
BH27E
LEGEND
Sample Location
Borehole Location
Scale (Feet)
0
5
10
Tank and Piping Locations
Pacific Dry Dock Yard I
1441 Embarcadero
Oakland, California
Figure 7
Project No. 1457-027
Versar, Inc.

Versar

Table 5

Laboratory Analytical Results for Soils (500-gallon UST)

Pacific Dry Dock and Repair Yard I (1441 Embarcadero)
Oakland, California

Sample Number	Sample Collection Date	Total Petroleum Hydrocarbons[1]		TOG[2]	Volatile Organics[3]				Lead[5] (mg/kg)
		Gasoline (mg/kg)[4]	Diesel (mg/kg)	Total Oil and Grease (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	
COMP-1	02/17/94	0.51	57	<5.0	<0.005	0.010	<0.005	0.047	18
SW1	02/17/94	<0.5	72	<5.0	<0.005	<0.005	<0.005	<0.015	8.2
SW2	02/17/94	<0.5	<1.0	<5.0	<0.005	<0.005	<0.005	<0.015	6.9
SW3	02/17/94	<0.5	<1.0	<5.0	<0.005	<0.005	<0.005	<0.015	5.1

[1] California DHS/LUFT Manual Method

[2] EPA Method 5220C&F

[3] EPA Method 8020

[4] Milligrams per kilogram (equivalent to parts per million)

[5] EPA Method 7420

Versar

Table 6

Laboratory Analytical Results for Groundwater (grab) (500-gallon UST)

Pacific Dry Dock and Repair Yard I (1941 Embarcadero)
Oakland, California

Sample Number	Sample Collection Date	Total Petroleum Hydrocarbons[1]		TOG[2]	Volatile Organics[3]			
		Gasoline (mg/L)[4]	Diesel (mg/L)	Total Oil and Grease (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)
UST1	02/17/94	0.38	8.4	<5.0	0.028	0.12	0.011	0.035

[1] California DHS/LUFT Manual Method

[2] EPA Method 5220C&F

[3] EPA Method 8020

[4] Milligrams per liter (equivalent to parts per million)

DRAFT
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Attorney-Work Product

SITE EVALUATION REPORT
FORMER PACIFIC DRY DOCK FACILITY
YARD I

Port of Oakland
1441 Embarcadero
Oakland, California

Prepared for

Washburn, Briscoe & McCarthy
55 Francisco Street
San Francisco, California

April 1997
Project 3999

Prepared by Geomatrix

TABLE 4

SOIL ANALYTICAL RESULTS - METALS[1]
Former Pacific Dry Dock and Repair Facility, Yard I
1441 Embarcadero
Oakland, California

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Concentrations in milligrams per kilogram (mg/kg)

Area	Boring/ Sample ID	Sample Date	Sample Depth (feet)	Arsenic	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Zinc
Industrial PRG[2]				2.4	450	97,000	63,000	1000	68	34,000	100,000
10 x STLC[3]				50	50	800	250	50	2	200	2500
Residential PRG[2]				0.38	210	4600	2800	130	6.5	150	23,000
LBNL Background[4]				19.1	99.6	22.2	69.4	16.1	0.4	119.8	106.1
Western	BH9	10/25/91	3.5 - 4.0	-	15	-[6]	-	14	-	24	140
	BH11	10/25/91	9.5 - 10.0	-	39	-	-	5.8	-	56	36
	BH13	10/25/91	8.5 - 9.0	-	36	-	-	8.6	-	42	250
	MW1	6/23/93	5.5	9.2	18	17	16	29	<0.12	15	78
	MW3	6/23/93	5.5	1.8	14	<12	22	5	0.48	20	71
Eastern	PDDI-5[7]	12/89	2.5	4.6	39	13	50	55	0.65	69	160
	PDDI-6[7]	12/89	2.5	24	280	17	33	290	1.6	210	840
	PDDI-7[7]	12/89	1.5	47	77	99	3700	4400	21	55	1400
	PDDI-11[7]	12/89	0.5	-	-	-	550	75	-	-	-
	PDDI-12[7]	12/89	0.5	-	-	-	3300	290	-	-	-
	BH24E	8/17/92	4.5 - 5.0	-	-	-	38	17	0.31	-	-
	BH25E	8/17/92	4.5 - 5.0	-	-	-	22	5.2	0.099	-	-
	BH29-E	8/17/92	5.0	-	-	-	18	6.8	0.12	-	-
	BH30E	8/18/92	4.5 - 5.0	-	-	-	27	5.6	0.11	-	-
	BH33E	8/18/92	4.5 - 5.0	-	-	-	17	26	0.091	-	-
	SW1	2/17/94	6.25	-	-	-	-	8.2	-	-	-

TABLE 4

SOIL ANALYTICAL RESULTS - METALS[1]

Former Pacific Dry Dock and Repair Facility, Yard I
1441 Embarcadero
Oakland, California

Area	Boring/ Sample ID	Sample Date	Sample Depth (feet)	Arsenic	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Zinc
Industrial PRG[2]				2.4	450	97,000	63,000	1000	68	34,000	100,000
10 x STLC[3]				50	50	800	250	50	2	200	2500
Residential PRG[2]				0.38	210	4600	2800	130	6.5	150	23,000
LBNL Background[4]				19.1	99.6	22.2	69.4	16.1	0.4	119.8	106.1
Eastern (cont.)	SW2	2/17/94	6.7	–	–	–	–	6.9	–	–	–
	SW3	2/17/94	6.7	–	–	–	–	5.1	–	–	–
	BH18-N[8]	6/20/95	5.0		–	–	–	81.2	–	–	–
	BH18-S[8]	6/20/95	5.0		–	–	–	38.2	–	–	–
	BH18-E[8]	6/20/95	5.0		–	–	–	26.9	–	–	–
	BH18-W2[8]	7/14/95	5.0		–	–	–	2150	–	–	–
	BH18-BTM	6/20/95	5.0		–	–	–	18	–	–	–
	BH32-N[8]	6/20/95	5.0		–	–	–	177	–	–	–
	BH32-S2[8]	7/14/95	5.0		–	–	–	521	–	–	–
	BH32-W2[8]	7/14/95	5.0		–	–	–	752	–	–	–
	BH32-E2[8]	7/14/95	5.0		–	–	–	831	–	–	–
	BH32-BTM2[8]	7/14/95	5.0		–	–	–	1800	–	–	–
	HP1	2/28/96	2.0-2.5		–	–	–	5.2	–	–	–
		2/28/96	5.0-5.5		–	–	–	26	–	–	–
		2/28/96	8.0-8.5		–	–	–	8.8	–	–	–
	HP4	2/28/96	2.0-2.5		–	–	–	1200	–	–	–
		2/28/96	5.0-5.5		–	–	–	1200	–	–	–

TABLE 4

SOIL ANALYTICAL RESULTS - METALS[1]
Former Pacific Dry Dock and Repair Facility, Yard I
1441 Embarcadero
Oakland, California

DRAFT (4/2/97)
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Area	Boring/ Sample ID	Sample Date	Sample Depth (feet)	Arsenic	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Zinc
Industrial PRG[2]				2.4	450	97,000	63,000	1000	68	34,000	100,000
10 x STLC[3]				50	50	800	250	50	2	200	2500
Residential PRG[2]				0.38	210	4600	2800	130	6.5	150	23,000
LBNL Background[4]				19.1	99.6	22.2	69.4	16.1	0.4	119.8	106.1
Eastern (cont.)	HP4 (cont.)	2/28/96	7.0-7.5		–	–	–	5.4	–	–	–
	SB2	2/28/96	2.5-3.0		–	–	–	840	–	–	–
		2/28/96	5.0-5.5		–	–	–	4100	–	–	–
	SB3	2/28/96	2.0-2.5		–	–	–	520	–	–	–
		2/28/96	8.0-8.5		–	–	–	35	–	–	–

Notes:

1 Soil samples were also collected for chemical analyses in January 1990, October 1991, January 1992, August 1992, and February 1994; some or all of the data for these samples were not available. Shading indicates the location of the samples is not known.

2 PRG = EPA Region 9 preliminary remediation goal for industrial and residential soil, 1 August 1996.

3 STLC = soluble threshold limit concentration, California Code of Regulations, Title 22, Section 66261.24.

4 LBNL Background = background concentrations from August 1995 Protocol for Determining Background Concentrations in Soil at Lawrence Berkeley National Laboratory.

5 WET = California Waste Extraction Test; mg/l = milligrams per liter.

6 – = not analyzed for compound indicated.

7 Possible sediment rather than soil sample.

8 Samples collected from sidewalls and/or bottom of two soil excavations (BH18 and BH32) and remain in place.