10/27/89

Mr. Donald Byrne Hazardous Materials Specialist Alameda County Health Agency

In accordance with instructions of Wilbur Sprague of Del Monte, enclosed is a copy of the Property Assessment and Tank Removal Report covering Del Monte Plant No. 35 (4204 Hollis Ave.) Emeryville, CA. This report was prepared by CH2M Hill in September 1989.

If you have any questions regarding this report, please contact Susan Coleman at CH2M Hill.

# PROPERTY ASSESSMENT AND TANK REMOVAL REPORT DEL MONTE PLANT NO. 35 4204 HOLLIS AVE. EMERYVILLE, CALIFORNIA

Prepared for Del Monte, USA

By CH2M HILL

September 1989

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## Section 1 INTRODUCTION

#### **OBJECTIVES**

CH2M HILL conducted an assessment of the approximately one-third acre parcel on the southwest corner of the Del Monte Plant No. 35 property (on the corner of Hollis Street and Park Avenue) in Emeryville, Alameda County, California. The purpose of this property assessment was to collect and review information about activities conducted on this corner parcel and nearby properties to evaluate whether chemicals may have been released to soil or groundwater beneath the property. A second objective of this report is to summarize underground storage tank removal and sampling activities.

The property assessment included the following activities:

- A walk-through inspection and visual examination of the building and surrounding area, and interviews with the plant manager about site history, past operations, and chemical use
- A drive-through windshield survey of surrounding nearby properties within approximately one-quarter mile
- o A review of regulatory agency documentation including:
  - California Regional Water Quality Control Board, San Francisco Region (SFRWQCB)--Leaking Underground Storage Tanks
  - State of California Department of Health Services (DHS)--Hazardous Waste Sites
  - U.S. Environmental Protection Agency (EPA),
     Toxic Substances Control Division--Hazardous
     Waste Generators and Treatment, Storage, and
     Disposal Facilities
- O A review of aerial photographs taken between 1947 and 1988

The underground storage tank removal activities including the following:

o Sampling the contents of four underground fuel oil tanks

- o Initial soil sampling near the tanks
- o Removing the tanks
- o Soil sampling beneath the tanks after removal
- o Installing groundwater monitoring wells
- o Groundwater sampling

Section 1 of this report explains the objectives of this report and describes the background of Del Monte's corner parcel including property development and use, and the environmental setting. Section 2 describes the removal of the four fuel oil tanks, and documents the methods and procedures for tank sampling, soil sampling, monitoring well installation, and groundwater sampling. The soil and groundwater sample results are discussed in Section 3. Section 4 presents the information on neighboring properties collected from various agency files. A recommended followup plan is presented in Section 5.

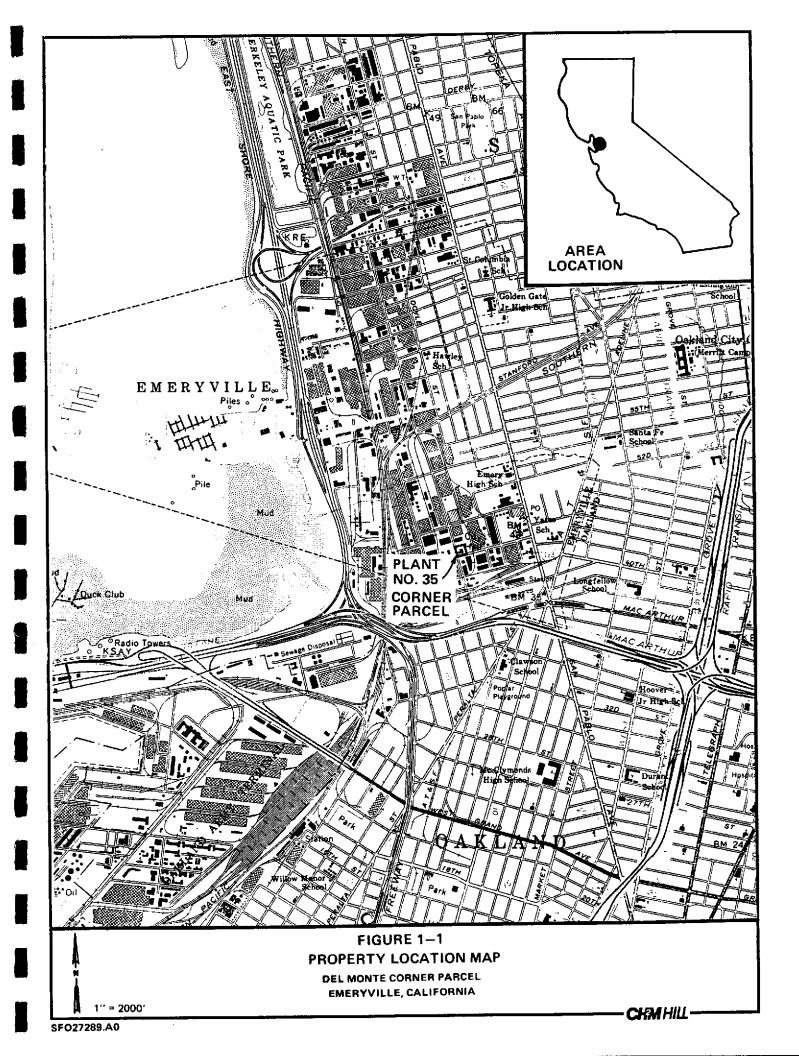
#### **BACKGROUND**

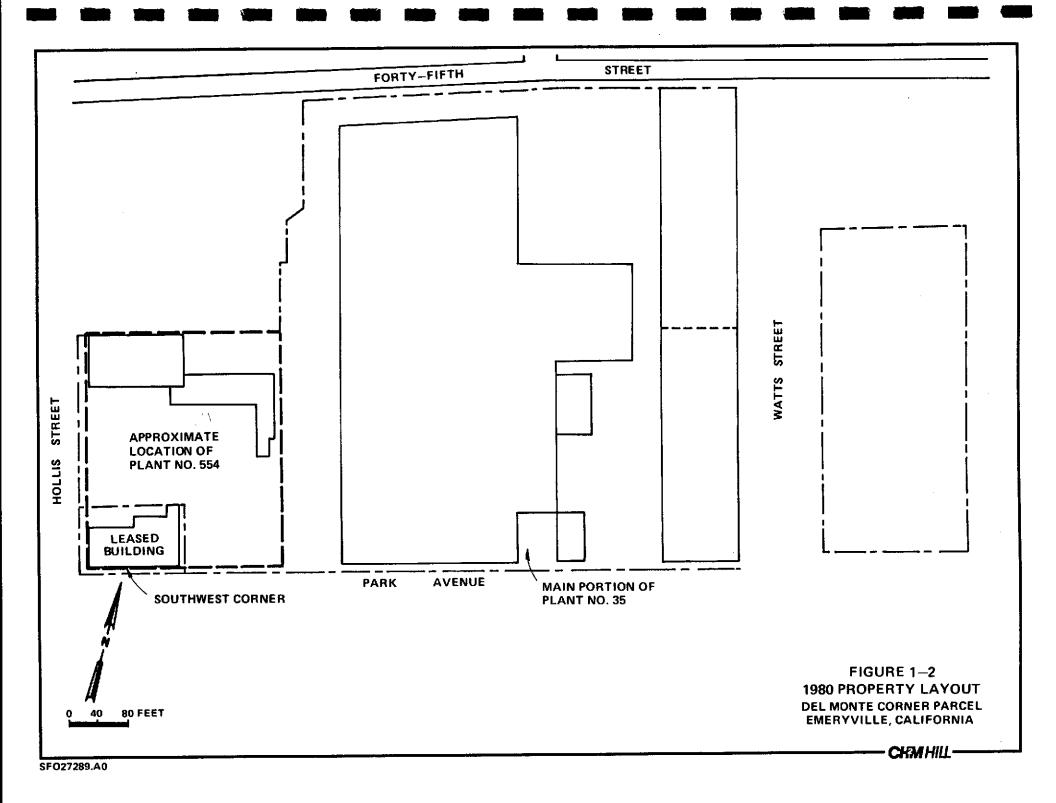
This section presents a summary of the property development and use of the southwest corner of Plant No. 35 and describes the environmental setting. Information about property development and use was obtained from discussions with the plant manager, property plot plans, and historic aerial photographs. The dates of the photographs reviewed were March 24, 1947; September 16, 1949; August 14, 1953; May 3, 1957; July 7, 1959; May 2, 1969; April 24, 1973; September 14, 1979; June 21, 1983; and March 30, 1988.

#### PROPERTY DEVELOPMENT AND USE

Plant No. 35 has been located on approximately 13.5 acres at 1250 Park Avenue, Emeryville, Alameda County, California, since about 1928 when Del Monte acquired the property (Figure 1-1). The history of the southwest corner since that time is uncertain. A building identified as Plant No. 554 appeared in a 1942 plot plan, with a corner of the building being on the southwest corner parcel (Figure 1-2). It is not clear whether this building actually existed because Plant No. 554 was not seen in a 1947 aerial photograph, and fish processing operations were conducted in this area until at least 1949.

The building that is currently on the southwest corner parcel existed in March 1947, based on the aerial photograph. It is unknown what operations were conducted in this





building during these early years. In 1971, a company called TECNA leased the building; however, no information is available on TECNA's operations except that the company performed medical research. Thoratec Laboratories, Inc. leased the building from 1976 to January 1989. Thoratec also conducted medical research. Chemicals reportedly used by Thoratec included methanol, acetone, ethanol, dimethylacetamide, dimethylformamide, and octamethylcyclotetrasiloxane (communication between J. Layton, Plant No. 35 Manager, and Thoratec, Inc.).

#### ENVIRONMENTAL SETTING

This section briefly describes the geographic setting, and the geologic and hydrogeologic conditions in the vicinity of the property.

#### Geographic Setting

This property is in the generally flat-lying area between San Francisco Bay to the west and the Berkeley Hills to the east. It is approximately one-third of a mile east of the original shoreline of San Francisco Bay (Nichols and Wright, 1971), and about one-half mile from the current shoreline.

#### Regional Geology

The active Hayward fault is approximately 3 miles to the east of this property and generally separates the bedrock-dominated Berkeley Hills from the alluvial and marine sediments that comprise the sloping plain that underlies the property. The alluvial and marine sediments consist of interbedded clays, silts, sands, and gravels. The alluvial sediments contain a larger proportion of sand and gravel, and the grain size generally increases toward the foot of the hills. The marine deposits are finer-grained and consist mainly of clay.

#### Regional Hydrogeology

The property is located above the Alameda Bay Plain Groundwater Basin (DWR, 1980). Groundwater in the Alameda Bay Plain Basin occurs within the generally discontinuous, permeable alluvial and marine sediments that extend from the ground surface to depths of over 500 feet below ground surface (DWR, 1980).

Regional information is not available about the horizontal or vertical directions of groundwater flow in the Emeryville area. Based on information for areas to the south (such as San Leandro), however, groundwater flow in both shallow and deeper zones is likely to be westward toward San Francisco

Bay. If there is local pumping, it is likely from the deeper zones, and such pumping could affect the direction of groundwater flow.

According to the Water Quality Control Plan for the San Francisco Bay Basin (SFRWQCB, 1982, 1986), potential beneficial uses of groundwater applicable to the main groundwater basins in the San Francisco area are municipal supply, industrial process water supply, industrial service supply, and agricultural supply. Factors limiting groundwater development in these basins include sea-water intrusion, aquifer materials of low permeability, and water quality (DWR, 1975). The lack of attention to the northern part of the Alameda Bay Plain Basin, where the property is located, tends to indicate a low level of groundwater use (SFRWQCB, 1982 and 1986; DWR, 1963 and 1975; USGS, 1972 and 1989).

Section 2 INVESTIGATION METHODS AND PROCEDURES

## Section 2 INVESTIGATION METHODS AND PROCEDURES

In the following subsections, the methods and procedures for the tank removal activities and the associated tank sampling, and soil and groundwater sampling are described in the order the activities were conducted.

#### SAMPLING OF TANK CONTENTS

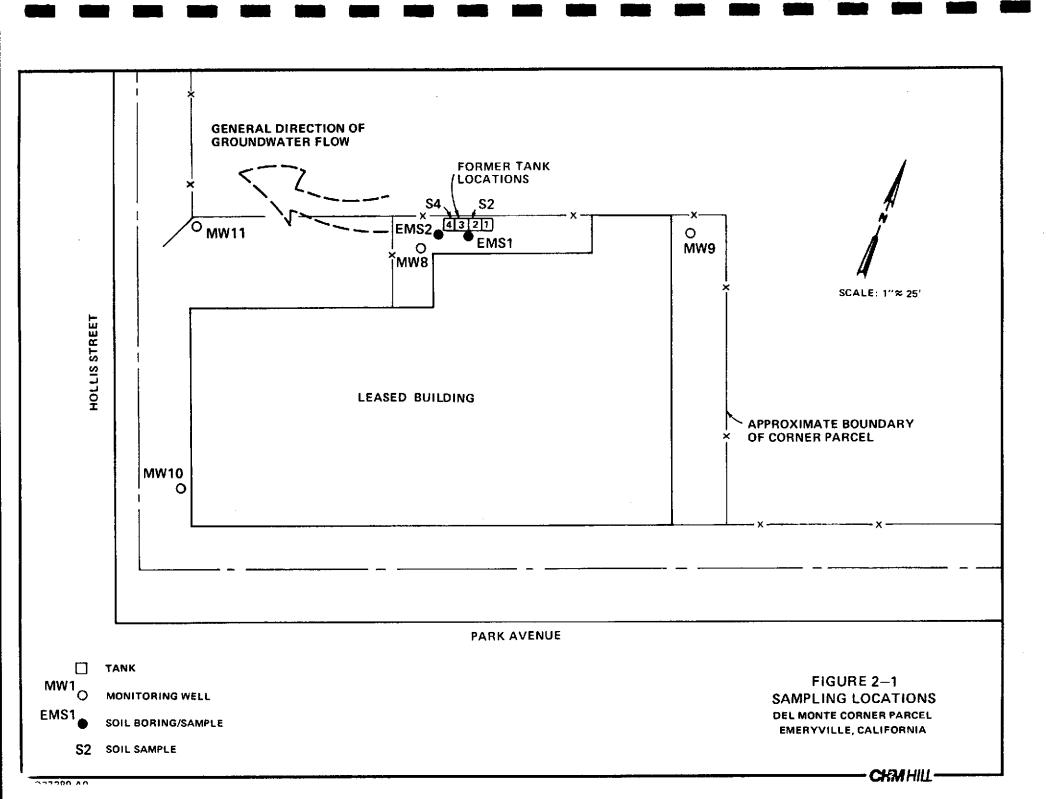
On December 1, 1988, prior to removal, the four fuel oil tanks (Figure 2-1) were sampled to identify the constituents and to help determine the volume of the contents needing disposal. The contents were analyzed for total petroleum hydrocarbons (TPH) as gasoline (EPA Method 5030/Modified 8015) and diesel (EPA Methods 3550/Modified 8015) and BTEX compounds (benzene, toluene, ethylbenzene, and xylene) (EPA Methods 5030/602).

Because the HNu and the explosimeter indicated levels of volatile organic compounds above background at the fill pipe, the level of protection for the sampling team was upgraded to level C (respirators) to continue sampling. In addition, the samples were also analyzed for volatile organic compounds (VOCs) (EPA Methods 601 and 602). The detected compounds are shown in Table 2-1. The laboratory data sheets are provided in Appendix A.

Table 2-1 SAMPLING RESULTS OF TANK CONTENTS

				Tank	4	
Constituent	Tank 1 (ppm) <sup>8</sup>	Tank 2 (ppm) <sup>®</sup>	Tank 3 (ppm) <sup>a</sup>	Nonaqueous Phase (ppm) <sup>a</sup>	Aqueous Phase (ppm) <sup>a</sup>	
Dichlorodifluoromethanes	ND	0.810	ND	ND	ND	
Methylene chloride	ND	0.006	ND	ND	0.058	
1,1-Dichloroethene	ND	0.020	ND	ND	0.001	
1,1-Dichloroethane	ND	0.002	ND	ND	ND	
trans-1,2-Dichloroethene	ND	4.200	ND	ND	0.003	
Chloroform	0.024	ND	0.059	0.011	0.025	
1,2-Dichloroethane	0.003	ND	0.010	0.019	0.012	
Carbon tetrachloride	0.004	ND	ND	ND	0.003	
Trichloroethene	0.013	52	0.093	9.100	13	
Bromodichloromethane	ND	ND	ND	MD	0.006	
Benzene	0.017	12	47	3.900	3.600	
Toluene	0.014	0.054	0.260	0.078	0.160	
Ethyl benzene	0.004	0.045	0.220	0.020	0.053	
Xylene	0.015	0.130	ND	0.070	0.280	
TPH-gas (ppm) <sup>a</sup>	0.190	ND	ND	16	ND	

parts per million as mg/l ND = Not detected



#### INITIAL SOIL SAMPLING

Soil samples were collected on February 8, 1989, prior to tank removal, to assess whether a potential release had occurred. Two borings (EMS-1, EMS-2) were drilled downgradient of the fuel tanks as shown in Figure 2-1.

Before sampling, equipment was decontaminated by washing in Alconox, rinsing twice with clean water, and rinsing once with distilled water. The brass sleeves used for soil sampling were also rinsed with isopropanol and allowed to dry.

The soil borings were drilled using 8-inch outer diameter hollow stem augering equipment operated by Exploration Geoservices, Inc. Soil samples were collected by driving a 2.5-inch-diameter, 18-inch-long Modified California sampler containing three 6-inch brass sleeves ahead of the augers. The sampler was advanced so that the middle sleeve was at the desired sample depth. At each location, a sample was collected between 6 and 6.5 feet below ground surface (bgs) and between 8.5 and 9 feet bgs.

The samples were analyzed for TPH as gasoline and diesel, BTEX compounds, and chlorinated solvents (EPA Method 8010). The analytical results are shown in Table 2-2 and the results are discussed in Section 3. The laboratory data sheets and chain-of-custody records are provided in Appendix A.

Table 2-2 SOIL SAMPLING RESULTS

Sample ID <sup>a</sup>	<u>Date</u>	TPH as <u>Gasoline</u>	TCE	1,2- DCE	PCE	Chloroform	Freon 113	<u>Xylene</u>
EMS1-6	2/8/89	<0.1	ND	ND	ND	ND	0.006	ND
EMS1-9	2/8/89	<0.1	ND	ND	ND	ND	0.008	ND
EMS2-6	2/8/89	0.3	0.008	ND	ND	0.008	ND	ND
EMS2-9	2/8/89	<0.1	0.017	ND	ND	ND	ND	0.006
S2-S2	3/22/89	ND	0.07	0.07	ND	ND	ND	ND
S2-S4	3/22/89	ND	ND	0.03	ND	ND	ND	ND
MW10-10	7/6/89	NA	ND	0.01	ND	ND	ND	NA
MW10-16	7/6/89	NA	ND	0.02	0.01	ND	ND	NA
MW11-10	7/6/89	NA	0.02	ND	ND	ND	ND	NA
MW11-16	7/6/89	NA	0.02	ND	ND	ND	ND	NA

\*Refer to Figure 2-1 for sampling locations

ND \* Not detected NA = Not analyzed

The soil cuttings generated from drilling the borings were used to backfill the boreholes which were then sealed with a concrete cap.

#### UNDERGROUND STORAGE TANK REMOVAL

Four underground storage tanks were removed from the southwest corner of the property on March 22, 1989. The removal activities followed California Water quality Control Board Leaking Underground Fuel Tank (LUFT) guidelines (SWRCB, 1989). The Bay Area Air Quality Management District was notified in writing one week prior to removing the tanks as required by Regulation 8, Rule 40.

The tanks were numbered 1 through 4 from east to west as shown in Figure 2-1. The tanks were small, with a capacity of about 50 gallons each, and were made of steel. They were used to store fuel oil but reportedly not used for over 20 years. As shown in Table 2-1, the tanks also contained some chlorinated solvents. The four tanks were exposed in one excavation.

Prior to removal, the contents of the tanks were pumped out and the tanks were rinsed with water until the explosimeter indicated that the lower explosive limit (LEL) was at a safe level. About 500 gallons of liquid, including the contents and rinse water, were pumped out and treated and disposed by Solvent Service, Inc. A copy of the manifest is provided in Appendix B. Dry ice was then added to the tanks. After about one hour, the LEL and oxygen levels were measured:

Tank 1: LEL--0 to 3 percent; Oxygen--0 percent

LEL--45 percent; Oxygen--0 percent

Tank 2: LEL--5 percent; Oxygen--0 percent Tank 3: LEL--100 percent; Oxygen--0 percent

Tank 4:

Because there was no oxygen in the tanks, they were removed with the permission of Mr. Jim Eversole, Assistant Chief Fire Marshall, City of Emeryville. Prior to removal, the tanks did not appear to have large holes except on top where the fill pipes were broken off during excavation. Because the tanks were bent and broken during removal, their inground condition could not be accurately evaluated after they were removed. After the tanks were removed, the LEL in Tank 3 was zero percent and oxygen was 20 percent; in Tank 4, the LEL was 70 to 75 percent and oxygen was 12 percent. More dry ice was added to these two tanks. All of the tanks were covered with plastic prior to transport and disposal by H&H Ship Service, Company. A copy of the manifest is provided in Appendix B.

Mr. Dennis Byrne, Hazardous Materials Specialist, Alameda County Health Agency, was present to witness soil sampling. The soil surrounding the tank consisted of black silty clay. No detectable concentrations of volatile organics were measured using an organic vapor meter (OVM) at several locations at the bottom of the excavation. Soil samples were collected by driving clean 2-inch diameter, 6-inch long brass tubes into the base of the excavation at the former locations of Tanks 2 and 4 (samples S2-S2 and S2-S4, respectively). The samples were analyzed for TPH as gasoline and diesel, BTEX, chlorinated solvents (EPA Method 8010), and semivolatile compounds (EPA Method 8270). The detected compounds are shown on Table 2-2 and are discussed in Section 3. The laboratory data sheets and chain-of-custody records are provided in Appendix A. The excavation was backfilled with the soil that was originally removed and some of the clean soil excavated from the gasoline tank removal conducted on the main portion of the property (described in another report [CH2M HILL, August 1989]).

#### GROUNDWATER MONITORING WELL INSTALLATION AND SAMPLING

A groundwater monitoring well (MW8) was installed about 10 feet downgradient of the former tank locations as shown in Figure 2-1. After the groundwater data were received, three additional wells were installed: MW9, MW10, and MW11 (Figure 2-1). The wells were installed fairly close together so that they were located on the corner parcel. The well installation, development, and sampling activities are described in this section.

#### WELL INSTALLATION

CH2M HILL developed well construction specifications following RWQCB guidelines and retained Exploration Geoservices, Inc. of San Jose, California to drill and install the monitoring wells. The location of underground utilities in the vicinity of the proposed wells was delineated by contacting Underground Services Alert and subsequently by contacting specific utility companies. Prior to drilling, 18-inch-wide square holes were cut through the existing concrete or asphalt and holes about 3.5 feet deep were dug by Diablo Tank and Equipment to verify the absence of underground piping.

MW8 was installed on May 3, 1989, and MW9, MW10, and MW11 were installed on July 5 and 6, 1989. Before installation, the drilling equipment was decontaminated by steam cleaning.

The boreholes for MW8 and MW10 were drilled using a Mobile B-24 drill with 6-inch outer diameter flight augers. Flight augers were required because a small drill rig was needed for close access to buildings. The flight augers were suitable for well installation because of the cohesiveness of the soil. MW9 and MW11 were drilled using a Mobile B-40 drill with a 9-inch outer diameter hollow stem auger.

The borehole for MW8 was drilled to about 25 feet bgs, which is about 15 feet below the bottom of the tanks as required by the LUFT Field Manual. The boreholes for MW9, MW10, and MW11 were drilled to about 20 feet bgs. Once total depth was reached, the augers were withdrawn from the borehole and the monitoring well was installed within the open 6-inch or 9-inch-diameter boring.

The monitoring wells were constructed with 2-inch-diameter, flush threaded, schedule 40 PVC casing and 0.020-inch slot screen. Threaded caps were placed on the bottom of the casings. Because MW8 was installed according to the LUFT Field Manual requirements, the screen extended from about 5 feet to about 25 feet bgs. Groundwater was encountered between 9 and 10 feet bgs in MW8 and MW9, and between about 7 and 8 feet bgs in MW10 and MW11. MW9, MW10, and MW11 were installed to monitor the region of groundwater movement and the screened intervals were based on the lithology encountered. The screened intervals covered a region where there was a higher percentage of fine sand or silt because this was the only permeable layer encountered. This region was from approximately 10 feet to 20 feet bgs in MW9, and from about 8 feet to 18 feet bgs in MW10 and MW11. (Boring logs are provided in Appendix A.)

Clean, washed Monterey sand (Lone Star No. 3, 8 x 20 sieve size) was used for sand pack. The elevation of the sand pack was continually sounded as the sand was being added. The sand pack was installed from the bottom of the borehole upward to approximately 1.5 to 2 feet above the top of the screen.

After the sand pack was in place, a 1-foot-thick bentonite pellet seal was placed on top of the gravel pack. Water was added to the borehole in MW8 (MW9, MW10, and MW11 were submerged so water was not necessary) and the bentonite pellets were allowed to hydrate for 15 to 30 minutes to form a seal before well construction continued.

An annular seal of portland cement concrete was installed from the top of the bentonite (about 2.5 feet bgs) to the ground surface. The wells were completed below grade with a water-tight traffic box. The top of the traffic box protrudes approximately 0.5 inch above the top of the existing pavement ("ground surface") to promote drainage. A locking, watertight well cap and lock were placed in the top of the PVC casing upon completion of the wells.

During drilling MW8, the subsurface lithology was logged from drill cuttings. MW9 and MW11, however, were sampled continuously using a wireline sampler, and MW10 was sampled

every 5 feet using a Modified California sampler. Four samples were collected from each boring from the region where the screen would be installed; two samples were analyzed for physical properties (bulk density; porosity; percent silt, sand, and clay; and percent organic carbon in the silt, sand, and clay), and two samples were analyzed for chlorinated solvents (EPA Method 8010). The data are summarized in Table 2-2 and are discussed in Section 3. The laboratory data sheets, chain-of-custody records, and monitoring well boring logs are provided in Appendix A.

For each of the wells, the elevation of the top of the casing was surveyed to the nearest 0.01 foot. The survey data are also provided in Appendix A.

#### WELL DEVELOPMENT

MW8 was developed on May 8 and 9, 1989, by pumping with bilge and gas-powered centrifugal pumps until the water was free of fine-grained particles. MW9, MW10, and MW11 were developed on July 10, 1989, using a gas-powered centrifugal pump. A total of approximately 126 gallons were purged from MW8, 65 gallons from MW9, 110 gallons from MW10, and 110 gallons from MW11. Electrical conductivity remained fairly constant but the water was still slightly cloudy due to the high clay and silt content of the soils.

#### GROUNDWATER SAMPLING

Groundwater from MW8 was sampled on May 12, 1989, and on July 10, 1989, when MW9, MW10, and MW11 were sampled. Prior to sampling at each well, the well sounder and clear bailer were decontaminated with an Alconox and tap water wash followed by a tap water rinse. The sampling bailer was also rinsed with isopropanol then distilled water. New rope and plastic hose was used for sampling each well.

Standing water was purged from the wells using a handpowered suction pump MW8 and a gas-powered centrifugal pump
at MW9, MW10, and MW11. New plastic hose was used for each
well. Over 10 well casing volumes of groundwater were removed from each of the wells. While evacuating the water
from the well, temperature and specific conductance were
measured. A water sample was then collected using a teflon
bailer and transferred to the appropriate sample containers.
The 40-ml VOA bottles were carefully filled to prevent
aeration or formation of air bubbles within the containers
after sealing. Sample containers were labeled, decontaminated with Alconox and clean water, placed in zip-lock
plastic bags, and stored in an ice-filled cooler. Chain-ofcustody records were completed and samples were delivered to

the laboratory on the same or following day. All pumped groundwater was stored in 55-gallon drums on the property.

The groundwater sample collected from MW8 on May 12, 1989, was analyzed for chlorinated solvents (EPA Method 601) and phenols (EPA Method 604). The samples collected from MW9, MW10, and MW11 on July 10, 1989, were analyzed for chlorinated solvents, pH, electrical conductivity, sulfate, nitrate, chloride, and total dissolved solids (TDS); the sample collected from MW8 on July 10, was analyzed for chlorinated solvents only. The detected compounds are shown in Table 2-3 and are discussed in Section 3. Laboratory data sheets and chain-of-custody records are provided in Appendix A.

Table 2-3 GROUNDWATER SAMPLING RESULTS

		Concentration (ppm)										
Sample ID	1.2-DCE <sup>8</sup>	1.1-DCE <sup>b</sup>	1.2-DCAC	TCE	PCE	VC1	DPg					
MW8 (5/12/89)	0.29	<0.010	<0.010	1.4	0.02	0.078	<0.010					
MW8 (7/10/89)	0.14	<0.0025	<0.0025	0.330	0.014	0.017	<0.0025					
MW8-dup	0.13	<0.0025	<0.0025	0.310	0.012	0.016	<0.0025					
MW9	0.063	<0.0005	<0.0005	0.013	0.038	0.016	<0.0005					
MW10	0.085	0.0008	<0.0005	0.027	0.042	0.028	<0.0005					
MW11	0.073	<0.001	0.004	0.160	0.012	0.016	0.0057					
a1,2-Dichloroethene b1,1-Dichloroethene c1,2-Dichloroethane dTrichloroethene c1,2-Dichloroethane				chloride chloropro	pane							

#### WASTE DISPOSAL

Water from steam cleaning drilling equipment, from cleaning development and sampling equipment, and from development and sampling was temporarily stored in 55-gallon drums on the property. The water will be removed from the site, and treated and disposed by Solvent Service, Inc.

Drill cuttings from each well were stored in separate 55-gallon drums. A sample of the cuttings from MW8 was collected because the soil was not sampled during drilling. The sample from MW8 cuttings (ST-1) contained 0.02 ppm 1,2-dichloroethene (1,2-DCE) and 0.63 ppm trichloroethene (TCE). The soil was then spread separately on a plastic sheet and aerated. After aeration, a sample of MW8 cuttings (DM-MW8S) contained 0.18 ppm TCE and 0.15 ppm of chloroform. The laboratory data sheets and chain-of-custody records are provided in Appendix A. The soil from MW8 was transported by Kern Backhoe Services, Inc. to Liquid Waste Management's Class II landfill in McKittrick, California. The soil cuttings from MW9, MW10, and MW11 are currently stored on the property, and will be disposed after aeration to nondetectable concentrations.

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Section 3
DISCUSSION OF RESULTS

## Section 3 DISCUSSION OF RESULTS

This section discusses the results of the soil and ground-water sampling conducted at the 1/3-acre parcel at the corner of Hollis Street and Park Avenue in Emeryville. The nature and extent of chemicals found in soil and groundwater near the former tank locations is described.

#### SOILS

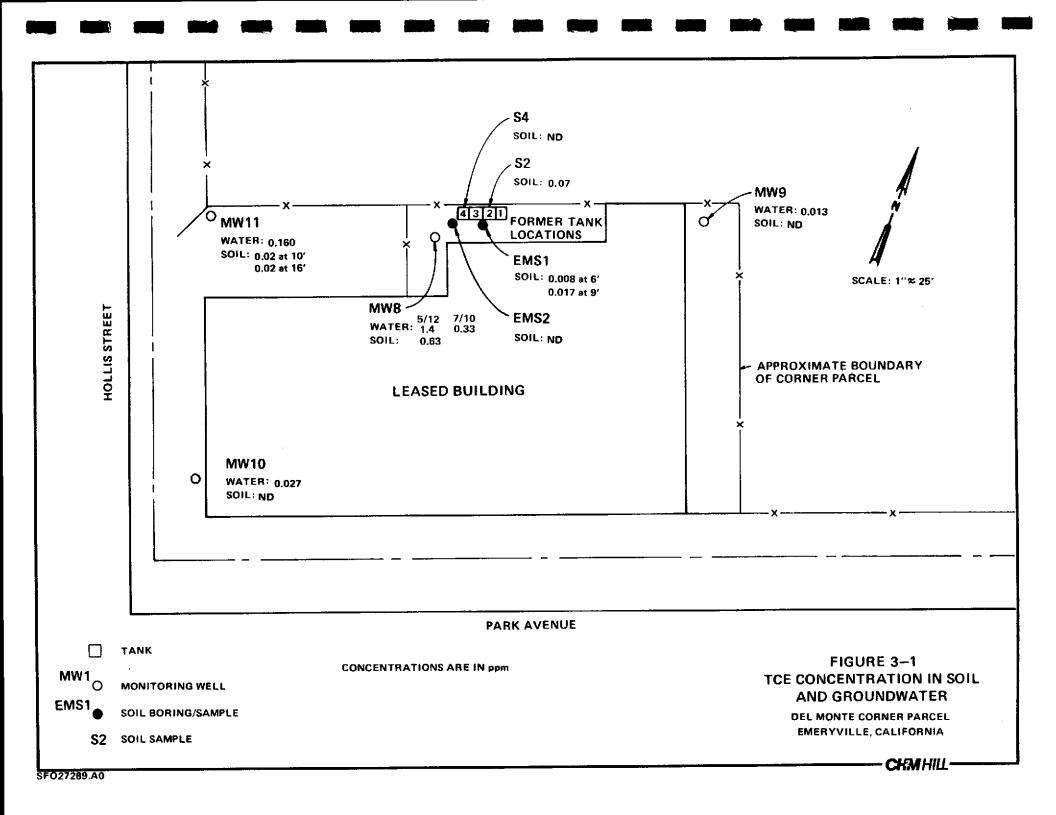
The TCE concentration in soil and groundwater is illustrated in Figure 3-1. TCE was detected in soil beneath Tank 2 (the contents of which contained the highest TCE concentration of 52 ppm) at 0.07 ppm but was not detected 2 feet away at 6 and 9 feet bgs (Sample EMS1 in Table 2-2). TCE was not detected in soil beneath Tank 4 (the contents of which contained 13 ppm TCE) but was detected about 2 feet away at 0.08 and 0.017 ppm at 6 and 9 feet bgs, respectively (Sample EMS2 in Table 2-2.). TCE was also detected in the soil cuttings from MW8, about 6 feet from the excavation, at 0.63 ppm. TCE was not detected in the soil from MW9, upgradient of the tanks, or MW10. At ten and 16 feet bgs in MW11, TCE was detected near the analytical detection limit.

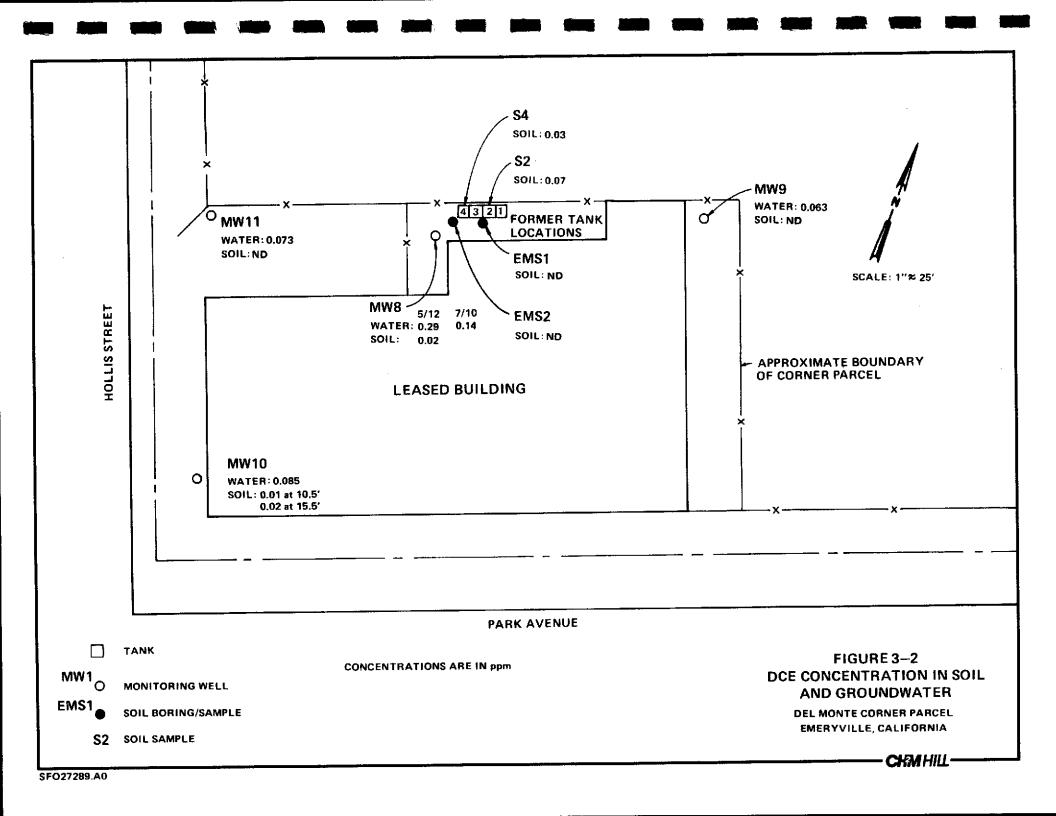
As shown in Figure 3-2, 1,2-DCE was detected in soil beneath Tank 2 at 0.07 ppm and beneath Tank 4 at 0.03 ppm. 1,2-DCE was not detected in soil samples collected 2 feet away from the tanks, but was detected in cuttings from MW8 at 0.02 ppm, and in MW10 at 0.01 and 0.02 ppm at 10 and 16 feet bgs, respectively (Table 2-2).

PCE, Freon 113, xylene, and chloroform were also detected at low concentrations in some of the soil samples (Table 2-2).

It appears that the extent of soil contamination is limited to the vicinity of the tanks because TCE and 1,2-DCE were not detected at MW9 (upgradient), and was only detected at or near the analytical detection limit in MW10 and MW11. These samples were collected from the saturated zone and the solvents that were detected in the soil could be associated with transport in the groundwater.

The potential for human exposure to the chemicals in the soil may be through direct dermal contact. The soil, however, is covered by a concrete loading dock. It is possible that future excavation of soils could expose workers through direct contact or inhalation. However, any future exposure can be controlled by protecting workers during excavation or by soil treatment before excavation begins.





#### GROUNDWATER

Shallow groundwater exists beneath the corner parcel at a depth of approximately 7 to 10 feet bgs. The soils consist of clay, silty clay, and sandy silt with some fine sand. The shallow groundwater flows west to west southwest toward San Francisco Bay under a horizontal hydraulic gradient of approximately 0.014 ft./ft. The rate of movement of the shallow groundwater can be calculated using the following formula:

$$V = ki/\Phi_p$$

where,

V = velocity (ft/year)

k = hydraulic conductivity (ft/day \* 365 days/year)

i = hydraulic gradient (ft/ft)

 $\Phi_{\rm p}$  = effective porosity (%)

The hydraulic conductivity value was obtained from an investigation report on the Electro-Coatings site, a California Superfund site, located one block west on Hollis Street (Woodward-Clyde, 1981, 1983). The investigation included an 8-hour pump test and two slug tests. The hydraulic conductivity at Electro-Coatings was determined to be approximately 0.25 feet/day for the clayey silt and sandy clay layer beneath that property. This layer appears to be similar to the silty clay layer beneath the Del Monte corner property. The porosity was determined to be 42.5 percent by averaging the porosity values for the 6 samples taken from MW9, MW10, and MW11 (Appendix A). Using the above formula, the velocity for the shallow groundwater is approximately 3 feet per year:

(0.25 ft/day) \* (365 days/year) \* (0.014 ft/ft) = 3 ft/year 0.425

The source of the chlorinated solvents in the four tanks is not known. As previously mentioned, the building was leased by different companies from 1971 to 1976 and 1976 to 1989. If it is assumed that the solvents leaked from the tanks in 1976, they could have traveled up to about 39 feet in the groundwater based on the groundwater velocity calculated. However, chemical compounds generally do not travel as fast as the groundwater because of retardation and dispersion effects with the surrounding soil.

As would be expected, MW8, the well closest to the tanks, contained the highest concentrations of TCE and 1,2-DCE, and

the concentration of TCE is lowest in the upgradient well, MW9, and higher in MW11 than MW10 (Figures 3-1 and 3-2). The concentration of 1,2-DCE, however, is similar in MW9, MW10 and MW11 (Figure 3-2), and the PCE concentration is similar in MW9 and MW10, but lower in MW11.

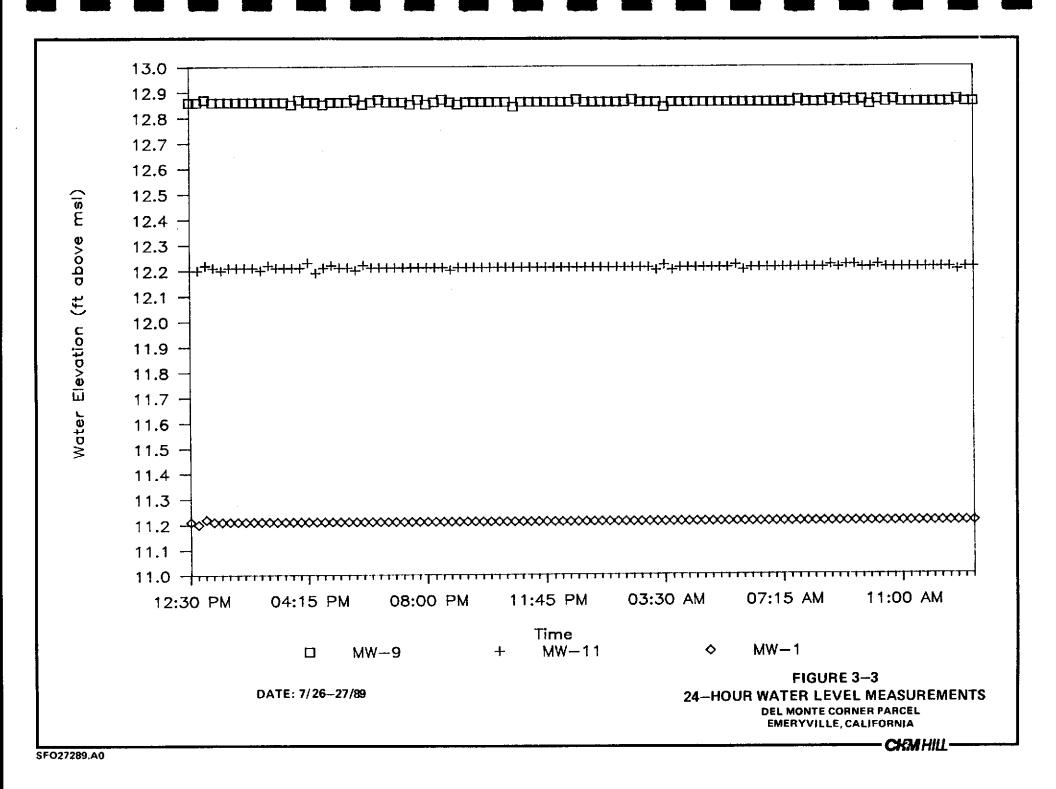
It is unclear how the contaminated groundwater migrated upgradient to MW9. Because water accumulates in the basement of a building on the main portion of the Plant No. 35 property on a periodic basis, the potential affects of the tidal fluctuation was tested. A data recorder was installed in MW9, MW11, and MW1, to record the water level over a 24-hour period. (MW1 was installed during a property assessment conducted on the main portion of Plant No. 35 [CH2M HILL, June 1989].) The data are presented in Table 3-1 and shown in Figure 3-3 It does not appear that the tides have a significant impact on the groundwater flow direction.

The contaminated groundwater may have been transported through the backfill in utility trenches. There are at least four utility lines in the vicinity of the upgradient well, MW9. (Three holes were dug, in which conduits were encountered, before a clear area could be found to install the well.) However, the presence of conduits between the former tank locations and MW9 is not known.

As seen in Table 2-3, the concentration of TCE, 1,2-DCE, and vinyl chloride in MW8 have decreased substantially since the source, the underground tanks, were removed.

Table 3-1 24-HOUR WATER LEVEL MEASUREMENTS

			MW-9	1	MW-11		1W-1				MW-9	MV	<i>l</i> -11	•	1W-1
Elevation	at toc		22.3		19.3	:	20.8	Elevation	at toc		22.3	19	.3		8.03
Date	Time	Level	Elevation	Level	Elevation	Level	Elevation	Date	Time	Level	Elevation	Level	Elevation	Level	Elevation
26-Jul-89	12:30 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul <i>-</i> 89	01:00 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	12:45 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	01:15 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	01:00 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	01:30 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	01:15 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	01:45 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	01:30 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	02:00 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	01:45 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	02:15 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	02:00 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	02:30 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	02:15 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	02:45 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	02:30 PM	9.4	12.9	7.1	12.2	9.6	11.2	27 - Jul - 89	03:00 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul -89	02:45 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	03:15 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	03:00 PM	9.4	12.9	7.1	12.2	9.6	11.2	27- Jul -89	03:30 AM	9.4	12.8	7.1	12.2	9.6	11.2
26-Jul-89	03:15 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	03:45 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	03:30 PM	9.4		7.1	12.2	9.6	11.2	27-Jul-89	04:00 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	03:45 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	04:15 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	04:00 PM	9.4	12.9	7.1	12.2	9.6	11.2	27- Jul -89	04:30 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	04:15 PM	9.4		7.1	12.2	9.6		27- Jul -89	04:45 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	04:30 PM	9.4		7.1	12.2	9.6		27-Jul-89	05:00 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	04:45 PM	9.4		7.1	12.2	9.6	11.2	27- Jul -89	05:15 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	05:00 PM	9.4		7.1	12.2	9.6		27-Jul-89	05:30 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	05:15 PM	9.4		7.1	12.2	9.6	,	27-Jul-89	05:45 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	05:30 PM	9.4		7.1	12.2	9.6		27-Jul-89	06:00 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	05:45 PM	9.4		7.1	12.2	9.6		27-Jul-89	06:15 AM	9.4		7.1	12.2 12.2	9.6 9.6	11.2 11.2
26-Jul-89	06:00 PM	9.4		7.1	12.2	9.6		27-Jul-89	06:30 AM	9.4 9.4	12.9	7.1 7.1	12.2	9.6	11.2
26-Jul-89	06:15 PM	9.4		7.1	12.2	9.6	,	27-Jul-89	06:45 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	06:30 PM	9.4		7.1		9.6	•	27-Jul-89 27-Jul-89	07:00 AM 07:15 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	06:45 PM	9.4		7.1 7.1		9.6 9.6	1	27-Jul-89	07:15 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89 26-Jul-89	07:00 PM 07:15 PM	9.4 9.4		7.1		9.6		27-Jul-89	07:45 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	07:13 PM	9.4 9.4		7.1	12.2	9.6		27-Jul-89	08:00 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	07:45 PM	9.4		7.1		9.6		27-Jul-89	08:15 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	08:00 PM	9.4		7.1	12.2	9.6		27-Jul-89	08:30 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	08:15 PM	9.4		7.1	12.2	9.6		27-Jul-89	08:45 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	08:30 PM	9.4		7.1		9.6		27-Jul-89	09:00 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	08:45 PM	9.4		7.1	12.2	9.6		27-Jul-89	09:15 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	09:00 PM	9.4		7.1	12.2	9.6		27-Jul-89	09:30 AM	9.4		7.1	12.2	9.6	11.2
26-Jul-89	09:15 PM	9.4		7.1		9.6	,	27-Jul-89	09:45 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	09:30 PM	9.4		7.1		9.6		27-Jul-89	10:00 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	09:45 PM	9.4		7.1		9.6		27-Jul-89	10:15 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	10:00 PM	9.4		7.1		9.6	11.2	27-Jul-89	10:30 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	10:15 PM	9.4		7.1		9.6	•	27-Jul-89	10:45 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	10:30 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	11:00 AM	9.4	12.9	7.1	12.2	9.6	11.2
26-Jul-89	10:45 PM	9.4	12.8	7.1	12.2	9.6	11.2	27-Jul-89	11:15 AM	9.4	12.9	7.1	12.2	9.6	
26-Jul-89	11:00 PM	9.4		7.1		9.6		27-Jul-89	11:30 AM	9.4	12.9	7.1	12.2	9.6	
26-Jul-89	11:15 PM	9.4		7.1		9.6	11.2	27- Jul -89	11:45 AM	9.4		7.1	12.2	9.6	
26-Jul-89	11:30 PM	9.4	12.9	7.1	12.2	9.6		27-Jul-89	12:00 PM	9.4		7.1	12.2	9.6	
26-Jul-89	11:45 PM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	12:15 PM	9.4		7.1	12.2	9.6	
27-Jul-89	12:00 AM	9.4		7.1		9.6		27- Jul -89	12:30 PM	9.4		7.1	12.2	9.6	
27-Jul-89	12:15 AM	9.4		7.1		9.6		27- Jul -89	12:45 PM	9.4		7.1	12.2	9.6	
27-Jul -89	12:30 AM	9.4		7.1		9.6		27- Jul -89		9.4		7.1	12.2	9.6	
27-Jul-89	12:45 AM	9.4	12.9	7.1	12.2	9.6	11.2	27-Jul-89	01:15 PM	9.4	12.9	7.1	12.2	9.6	11.2



Section 4
NEIGHBORING PROPERTIES

## Section 4 NEIGHBORING PROPERTIES

To determine whether potential offsite sources of organic chemicals exist in the vicinity of the corner parcel, a windshield survey was conducted. The names of industrial facili-ties that were located within a one-quarter mile radius of the corner parcel were recorded and are presented in Appendix C. Regulatory agency files for these facilities were reviewed to determine whether chemicals from these facilities have been released. The agencies contacted are included in Appendix F. If the agency files contained data on chemicals released from facilities outside of the one-quarter mile radius, the information was also collected and reviewed.

This section presents a summary of the information collected from the SFRWQCB on leaking underground storage tanks, the DHS on hazardous waste sites, and the U.S. EPA Region IX on hazardous waste generators and treatment, storage, and disposal (TSD) facilities.

#### LEAKING UNDERGROUND STORAGE TANKS

The SFRWQCB was contacted for information regarding leaking underground storage tanks at the facilities identified during the windshield survey. This information is summarized in Table 4-1.

Of the sites listed in Table 4-1, four--AC Transit, Berkeley Farms, Kaiser Engineers, and Del Monte--are located upgradient of the site. AC Transit and Berkeley Farms are located about one-half mile upgradient of the corner parcel. There was no TPH detected in groundwater at the AC Transit site and there was no groundwater impact at the Berkeley Farms site from the fuel leak. No information was available about the fuel leak at Kaiser Engineers. The Del Monte property is the main portion of the Plant No. 35. A gasoline tank was removed from the property in February 1989. The concentrations of gasoline components remaining in the soil and groundwater are indicated in Table 4-1.

#### HAZARDOUS WASTE SITES

The known hazardous waste sites in Alameda County, California, listed by the DHS as State or Federal Superfund Sites, which are within 3 miles of the corner parcel are presented

### Table 4-1 SAN FRANCISCO RWQCB FILE REVIEW SUMMARY

Site	Address	Position Relative To Plant No. 35		Contamination	Cause of Contamination	Degree of Contamination
Electro-Coating	1421 Park Avenue	900 ft. southwest	Soil: Water	Total Chromium (40 - 2030 ppm) Hexavalent Chromium (ND - 892 ppm) TCE (ND - 580 ppm) PCE (21 - 42 ppm)	Chromium Waste Storage Pit	Chromium contamination at concentrations greater than 0.05 ppm in shallow groundwater extend 1300 feet downgradient to Hubbard Street. TCE and PCE sampling conducted in 1985.
PG&E	4525 Hollis Street	2200 ft. northwest	2200 ft. northwest Soil: PCB (ND- Pyrene 19 Fluoranth Toluene I Methylene Heavy Met		Multiple Sources	Soil and groundwater contamination known
			Water:	Hg, Ni, Ti, Zn) As (0.113 ppm) Pb (0.051 ppm) Cd (0.011 ppm) Cr (0.06 - 0.08 ppm)		
Berkeley Farms	1313 53rd Avenue	1750 ft. northeast	Soil:	TPH (ND - 2.8 ppm)	Fuel Leak	No water quality impact or threat
A.C. Transit	47th and San Pablo 1750 ft. nort 45th and San Pablo 1300 ft. nort		Soil: Water:	TPH (240 - 300 ppm) TPH (<1 ppm) Benzene (0.06 ppm)	Fuel Leak	Identified groundwater and soil impact in an area of limited groundwater use
Kaiser Engineers	neers 1140 45th Street 500 ft. nor		No Information		Fuel Leak	Identified soil impact in an area of limited groundwater use
Ransome Co.	4030 Hollis Street 800 ft. south		Soil:	Contaminated with unknown compound	Fuel Leak	Identified soil impact in an area of limited groundwater use
Shell	4250 Horton Street	1300 ft. west		nd soil removed tamination information	Fuel Leak	Identified soil impact in an area of limited groundwater use
City of Emeryville	1420 45th Street	900 ft. northwest	Water:	TPH (190 ppm) Benzene (160 ppb)	Fuel Leak	Groundwater contamination in an area of limited groundwater use
Del Monte	1250 Park Avenue	Adjacent, east	So11:	TPH (ND-470 ppm) Xylene (ND-5.4 ppm)	Tank Leak	Groundwater contamination in an area of limited groundwater use
			Water:	TPH (0.5) Benzene (0.005 ppm) Toluene (0.0006 ppm) Xylene (0.0056 ppm)		
Notes:	·					
TPH = Total Petrolet TCE = Trichloroethyl PCE = Perchloroethyl DCE = 1,2-Dichloroet VC = Vinyl Chloride	tene As =	Polychlorinated Biphenyls Arsenic Cadmium Chromium Copper	5	Pb = Lead Hg = Mercury Ni = Nickel Ti = Titanium Zn = Zinc		

SFR53/073

in Table 4-2. None of the sites listed in Table 4-2 are upgradient of the corner parcel. Therefore, impact to soil or groundwater at the corner parcel from these sites would not be likely.

## Table 4-2 STATE AND FEDERAL SUPERFUND SITES WITHIN 3 MILES OF DEL MONTE'S CORNER PARCEL

Site Location	Position Relative to the corner parcel
Pacific Gas & Electric 4525 Hollis Street Emeryville, California 94608	2,200 ft northwest
Electro-Coatings 1421 Park Avenue Emeryville, California 94617	900 ft southwest
Westinghouse Electric Company 5899 Peladeau Street Emeryville, California 94608	1 mile northwest
Wareham Properties 2900 Fifth Street and 700 Heinz Avenue Berkeley, California 94710	3 miles northwest

The soil at the Pacific Gas and Electric site contains polychlorinated biphenyls (PCBs) and lead, and the ground-water contains heavy metals which may have originated at the site. The degree and extent of offsite contamination is unknown.

The Electro-Coating site, 900 feet west of the Del Monte corner parcel, is an inactive plating facility which previously disposed of chromium waste in an onsite disposal pit. The soil and groundwater in the vicinity of the site contains hexavalent chromium, and groundwater contamination extends west to Hubbard Street. The groundwater also contains chlorinated solvents including up to 580 ppm of TCE.

The Westinghouse Electric Company site is a 2-acre, undeveloped, vacant area. Operations at this facility included maintenance and repair of electrical apparatus, including

transformers containing PCB fluids. Some of these fluids leaked onto or were discharged on the site.

The Wareham Properties site was formerly used for the production of vegetable and food oils. Numerous drums of nickel catalyst and some acids and bases were contained on the site.

#### HAZARDOUS WASTE GENERATORS AND TSD FACILITIES

EPA Region IX was contacted for information on hazardous waste generators and TSD facilities in the vicinity of Del Monte's corner parcel. Only one TSD facility was identified within 3 miles of the plant: Pfizer, Inc. at 4650 Shellmound Street, Emeryville. This site is located about 3/8 to 1/2 mile northwest of the corner parcel.

Section 5
RECOMMENDED FOLLOW-UP PLAN

## Section 5 RECOMMENDED FOLLOW-UP PLAN

The recommended short-term followup plan is continued groundwater monitoring because of the decrease in concentrations since the tanks were removed. The groundwater in MW8, MW9, MW10, and MW11 will be sampled quarterly for chlorinated solvents (EPA Method 601). Monitoring will be conducted for 3 more quarters and the data will be submitted in monitoring reports to the Alameda County Health Agency, Division of Hazardous Materials, Department of Environmental Health, and the California RWQCB, San Francisco Region. At the end of the one year period, the data will be evaluated. A letter will be submitted to the regulatory agencies if a new or modified plan is proposed. Notification of future owners of the property will include these requirements.

SF095/006.50

Section 6
REFERENCES

# Section 6 REFERENCES

California Regional Water Quality Control Board. <u>Leaking Underground Fuel Tank Field Manual: Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure</u>. May, 1988.

California Regional Water Quality Control Board. San Francisco Region, <u>Water Quality Control Plan for the San Francisco Bay Basin</u>. 1982, 1986.

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California Department of Water Resources. <u>Bulletin No. 118-80: Groundwater Basins in California</u>. January 1980.

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Ecology and Environment. <u>Site Investigation of the Pacific Gas and Electric Company Materials Distribution Center in Emeryville, California</u>. June 1984.

J.P. Klienfelder and Associates. <u>Preliminary Summary Report, Electro-Coating, Inc.</u> 1985.

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<u>Sampling Report</u>. March 16, 1987.

Kaprealian Engineering, Inc. Letter Report, Soil Sampling Investigation, Berkeley Farms. March 2, 1988.

Nichols, D.R. and N.A. Wright. Preliminary Map of Historic Margins of Marshland, San Francisco Bay, California. USGS Open File Report. 1971.

Sax, N. Irving, and Richard Lewis, Sr. <u>Hawley's Condensed</u> Chemical Distionary. Van Nostrand Reinhold Company. New York. 1987.

- U.S. Department of the Interior, Geological Survey, Water Resources Division. A Summary View of Water Supply and Demand in the San Francisco Bay Region, California. July 14, 1972.
- U.S. Department of the Interior, Geological Survey, Water Resources Data. <u>California</u>. <u>Water Year 1988 (Water-Data Report CA-88-A)</u>. April, 1989.

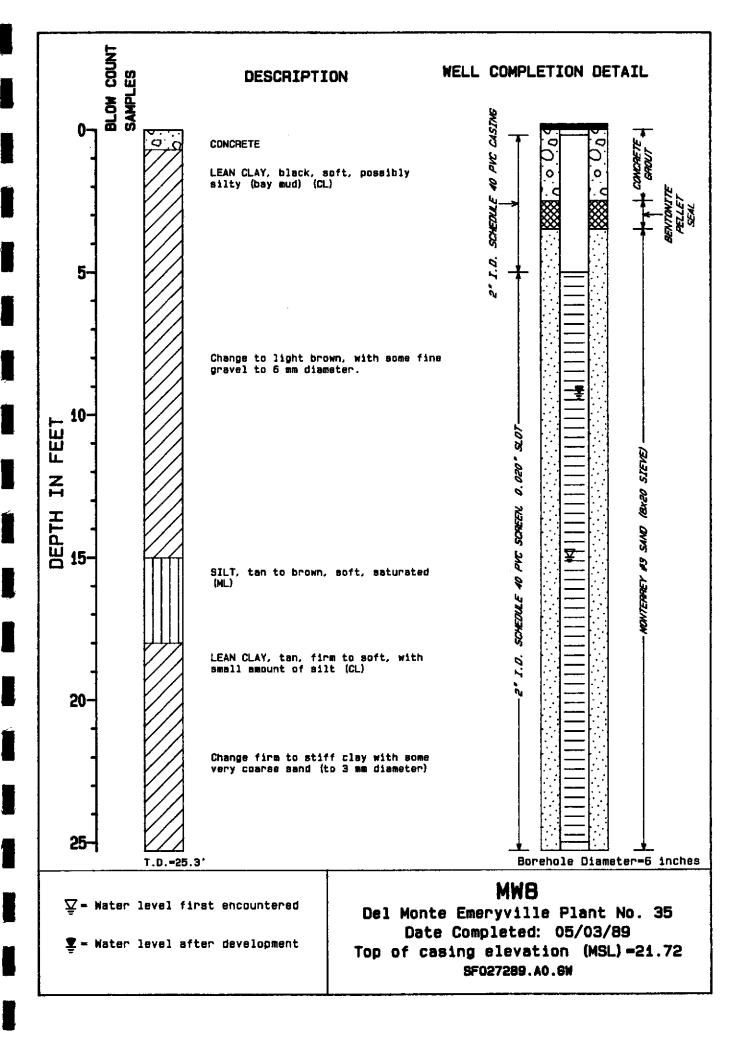
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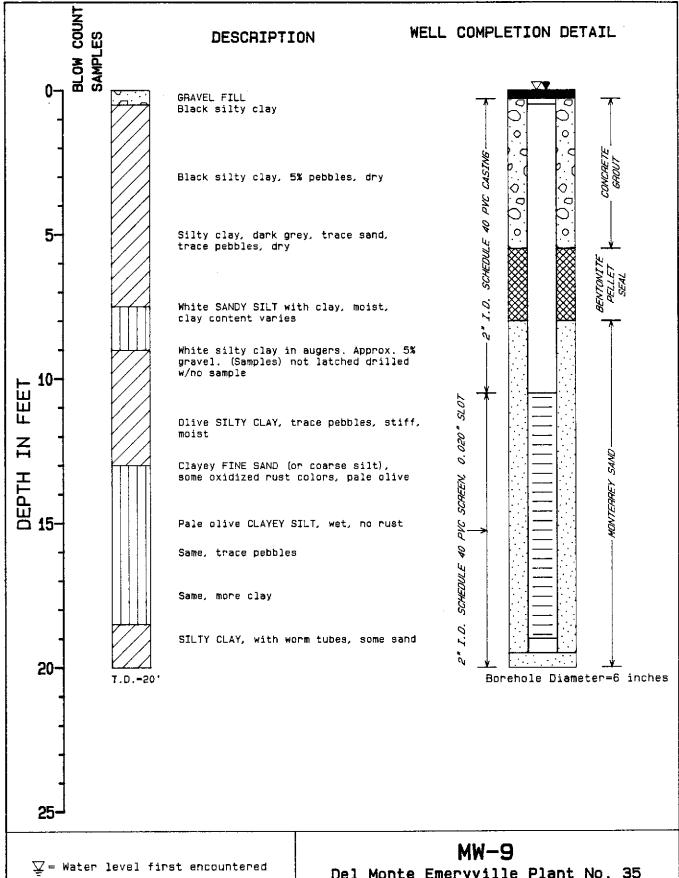
Appendix A
FIELD AND
LABORATORY DATA SHEETS

# Appendix A FIELD AND LABORATORY DATA SHEETS

This appendix contains the following:

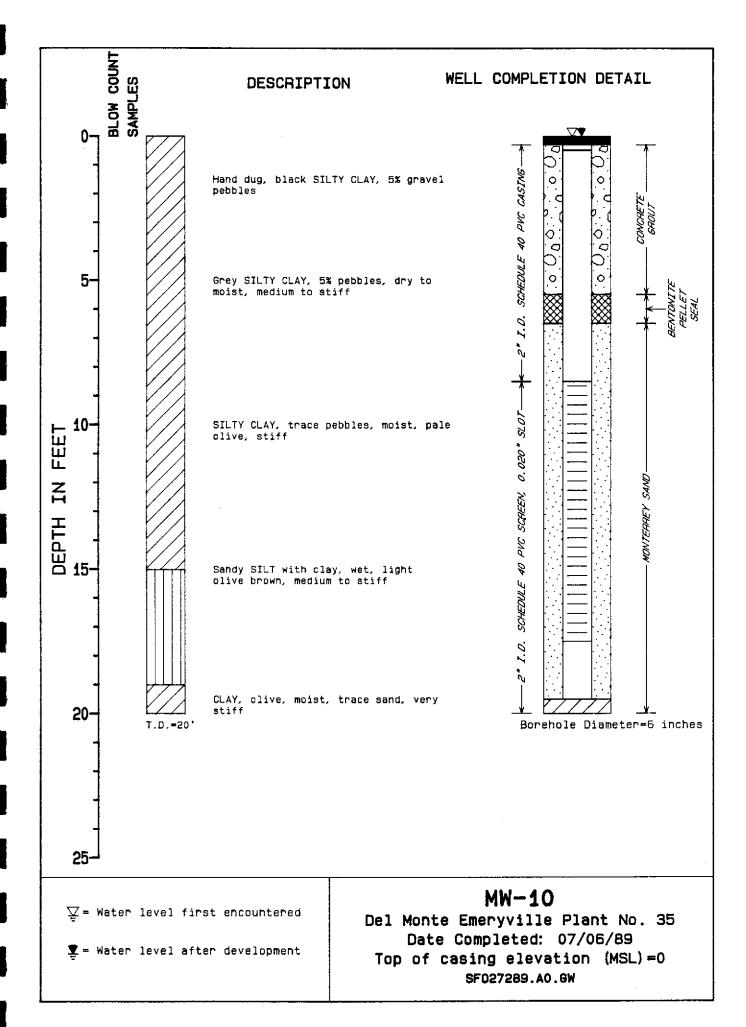
- o Monitoring well boring logs
- o Surveying data
- o Laboratory Data sheets
  - Tank Contents
  - Soil
  - Groundwater

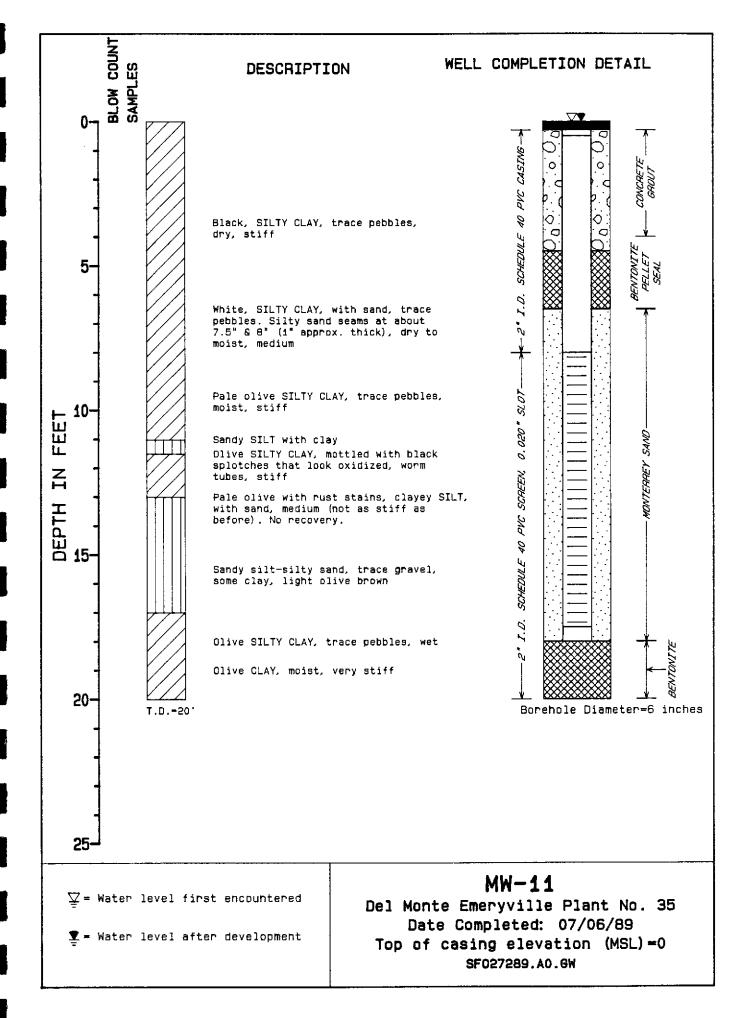


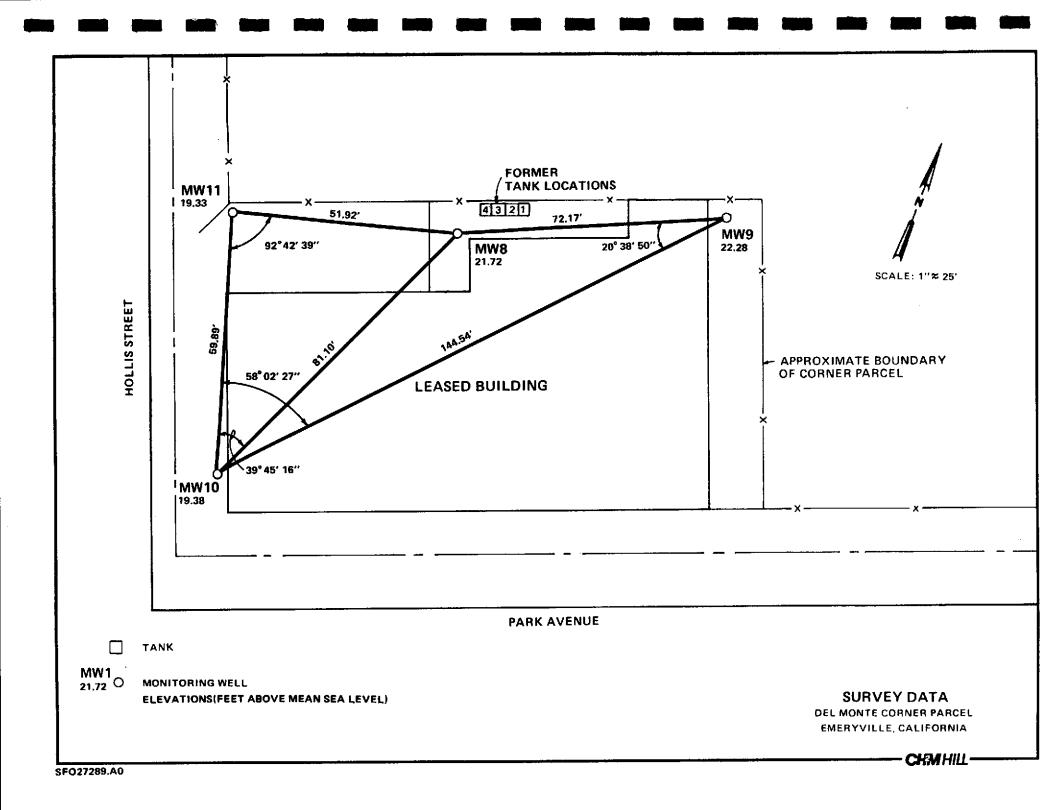


₹ = Water level after development

Del Monte Emeryville Plant No. 35 Date Completed: 07/05/89 Top of casing elevation (MSL)=0 SF027289.A0.6W







REPORT TO: DEL MONTE-EMERYVILLE

CH2M HILL/SFO SF027035.AO.FW

ATTENTION: SUSAN COLMAN

SAMPLE DESCRIPTION: UNKNOWN LIQUID

DATE OF SAMPLE: 12-1-88

REFERENCE NUMBER: 21729

PAGE 1A OF 4 DATE: 1-20-89

PHONE:

SAMPLED BY: A. COATE

DATE RECEIVED: 12-2-88

#### AMENDED REPORT

TEST	TOTAL FUEL HYDROCARBONS GAS	TOTAL FUEL HYDROCARBONS DIESEL
TANK #1	190	<500 *
TANK #2	<100	<500
TANK #3	<100	(500
TANK #4 AQUEDUS	<100	<500
TANK #4 NON-AQUEOUS	16000	<500
UNITS	mg/l	ug/l
DETECT LIMIT	100	500 **
DATE ANALYZED	12-17-88	12-29-88
METHOD NUMBER	DHS LUFT	DHS LUFT

COMMENTS: \* Reported a higher detection limit due to matrix interference.

\*\* 2/9/89 Corrected value supersedes previous data.

mg/l = milligrams per liter
ug/l = micrograms per liter

The information shown on this sheet is test data only and no analysis or interpretation is intended or implied.

ANALYST: Am APPROVED BY: Barrett of Typon



CH2M HILL ENVIRONMENTAL LABORATORY 2218 RAILROAD AVENUE REDDING, CA 96001 916-243-5831

REPORT TO: DEL MONTE-EMERYVILLE

CH2M HILL/SFO

SF027035.AU.FW

ALEX COATE AND S. COLMAN ATTENTION:

SAMPLE DESCRIPTION: UNKNOWN LIQUID

DATE OF SAMPLE: 12-1-88

TEST METHODS: EFA-601-8010 EXTRACTION METHOD: EPA 5030 REFERENCE NUMBER: 21729

PAGE 1 OF 4

DATE: 1-4-89

PHONE:

SAMPLED BY: A. COATE

DATE RECEIVED: 12-2-88

DATE ANALYZED: 12-15-88

CONSTITUENT	TANK #1	DETECT LIMIT	TANK #2	DETECT LIMIT	TANK #3	DETECT LIMIT
Chloromethane	<1	<u>-</u> -	<1	1	<10	10
Bromomethane	<1	1	<1	1	<10	10
Dichlorodifluoromethanes & Vinyl chloride	<1	1	810	100	<10	10
Chloroethane	<1	1	<1	1	<10	10
Methylene chloride	<5	5	6	5	<50	50
Trichlorofluoromethane	<1	1	<1	1	<10	10
1.1-Dichloroethene	<1	1	20	1	<10	10
1,1-Dichloroethane	<1	i	2	1	<10	10
trans-1,2-Dichloroethene	<1	1	4200	100	<10	10
Chloroform	24	1	<100	100	5 <del>9</del>	10
1,2-Dichloroethane	3 ·	1	<100	100	10	10
1,1,1-Trichloroethane	<1	1	<100	100	<10	10
Carbon Tetrachloride	4	1	<100	100	<10	10
Bromodichloromethane	<1	i	<100	100	<10	10
1,2-Dichloropropane	<1	1	<100	100	<10	10
cis-1,3-Dichloropropene	<1	1	<100	100	<10	10
Trichloroethene	13	1	52000	5000	<b>9</b> 3	10
Dibromochloromethane	<1	1	<100	100	<10	10
1,1,2,2-Tetrachloroethane	<1	1	<100	100	<10	10
Tetrachloroethene	<1	1	<100	100	<10	10
Chlorobenzene	<1	1	<100	10	<10	10
1,3-Dichlorobenzene	<1	1	<100	10	<10	10
1,2-Dichlorobenzene	<1	1	<100	10	<10	10
1,4-Dichlorobenzene	<1	1	<100	10	<10	10

Results in micrograms per liter COMMENTS: 2-Chloroethylvinyl ether not analyzed

The information shown on this sheet is test data only and no analysis or interpretation is intended or implied.

ANALYST:\_

\_\_\_ APPROVED BY: Benut J. Topan



CH2M HILL ENVIRONMENTAL LABORATORY 2218 RAILROAD AVENUE REDDING, CA 96001 916-243-5831

REPORT TO: DEL MONTE-EMERYVILLE

CH2M HILL/SFO

SF027035.AO.FW

ATTENTION: ALEX COATE AND S. COLMAN SAMPLE DESCRIPTION: UNKNOWN LIQUID

DATE OF SAMPLE: 12-1-88

TEST METHODS: EPA-601-8010 EXTRACTION METHOD: EPA 5030 REFERENCE NUMBER: 21729

-

PAGE 2 OF 4

DATE: 1-4-89

PHONE:

SAMPLED BY: A. COATE

DATE RECEIVED: 12-2-88

DATE ANALYZED: 12-15-88

ORGANIC				
TANK #4	LIMIT	TANK #4	LIMIT	
 <10	10	 <1	1	· — — ·
	_		1	
		<1	1	
		<1	1.	
			1	
			50	
			1	
			1	
			_ 1	
			_ 1.	
			1	
			1	
			1	
			_ 1	
			1	
			1	
			1	
			1000	
<10	10	<b>&lt;.1</b>	Ĭ.	
	TANK #4  <10 <10 <10 <10 <50 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	<pre></pre>	TANK #4         LIMIT         TANK #4           <10	TANK #4 LIMIT TANK #4 LIMIT <pre> &lt;10     10</pre>

COMMENTS: Results in micrograms per liter

2-Chloroethylvinyl ether not analyzed

Holding time exceeded on aqueous tank #4: sample ran per client.

The information shown on this sheet is test data only and no analysis or interpretation is intended or implied.

ANALYST:	(J.D)	 APPROVED	BY: Ber	met q	Typan
				•	=



CH2M HILL ENVIRONMENTAL LABORATORY 2218 RAILROAD AVENUE 916-243-5831 REDDING, CA 96001

REPORT TO: DEL MONTE-EMERYVILLE

CH2M HILL/SFO

SF027035.A0.FW

ATTENTION: SUSAN COLMAN

SAMPLE DESCRIPTION: UNKNOWN LIQUID

DATE OF SAMPLE: 12-1-88

REFERENCE NUMBER: 21729

PAGE 3 OF 4 DATE: 1-4-89

PHONE:

SAMPLED BY: A. COATE DATE RECEIVED: 12-2-88

DATE ANALYZED: 12-15-88

TEST METHODS: EPA-602-8020 EXTRACTION METHOD: EPA 5030

AMENDED REPORT

CONSTITUENT	TANK #1	DETECT LIMIT	TANK #2	DETECT LIMIT	TANK #3	DETECT LIMIT
Benzene	 17		<5000 *	5000	<b>* 47000</b>	1000
Toluene	14	1	54	10	* 260	100
Ethyl benzene	4	1	45	10	<b>x</b> 220	100
Xylene	15	1	130	10	<b>*</b> <100	100
Chlorobenzene	<1	1	<10	10	* <100	100
1.4-Dichlorobenzene	$\langle \overline{1}$	1	<10	10	* <100	100
1.3-Dichlorobenzene	$\langle \tilde{1}$	1	<10	10	<pre>* &lt;100</pre>	100
1,2-Dichlorobenzene	<1	1	<10	10	* <100	100
tertbutylmethylether		1	<10	10	* <100	100

COMMENTS: Results are in micrograms per liter. \* 2/9/89 Corrected value supersedes previous data.

The information shown on this sheet is test data only and no interpretation is intended or implied.

ANALYST: 50	APPROVED: Bunut & Tipou
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CH2M HILL ENVIRONMENTAL LABORATORY 2218 RAILROAD AVENUE REDDING, CA 96001 916-243-5831

REPORT TO: DEL MONTE-EMERYVILLE

CH2M HILL/SFO SF027035.AO.FW

ATTENTION: SUSAN

SAMPLE DESCRIPTION: UNKNOWN LIQUID

DATE OF SAMPLE: 12-1-88

REFERENCE NUMBER: 21729

PAGE 4 OF 4

DATE: 1-4-89

PHONE:

SAMPLED BY: A. COATE DATE RECEIVED: 12-2-88

DATE ANALYZED: 12-15-88

TEST METHODS: EPA-602-8020 EXTRACTION METHOD: EPA 5030

CONSTITUENT	ORGANIC TANK #4	DETECT LIMIT	AQUEOUS TANK #4	DETECT LIMIT	
Benzene	3900	100	3600	100	
Toluene	78	10	160	10	
Ethyl benzene	20	10	53	10	
Xylene	70	10	280	10	
Chlorobenzene	<10	10	<10	10	
1,4-Dichlorobenzene	<10	10	<10	10	
1,3-Dichlorobenzene	<10	10	<10	10	
1,2-Dichlorobenzene	<10	10	<10	10	
tertbutylmethylether	<10	10	<10	10	

COMMENTS: Results are in micrograms per litre.

Aqueous Tank #4 exceeded holding time, analyzed by client.

The information shown on this sheet is test data only and no interpretation is intended or implied.

ANALYST: (J.W.) APPROVED: Sumul & Typon



**ANALYTICAL REPORT** 

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

LOG NO: E89-02-248

Received: 08 FEB 89 Reported: 22 FEB 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SFO 27289.AD.FW

Page 1

## DATE SAMPLED SAMPLE DESCRIPTION, SOIL SAMPLES 08 FEB 89 08 FEB 89 08 FEB 89

EMS 2-6 02-248-3 08 FEB 89 02-248-4 EMS 2-9 08 FEB 89 02-248-5 EMS 3-6 02-248-1 02-248-2 02-248-3 02-248-4 02-248-5

REPORT OF ANALYTICAL RESULTS

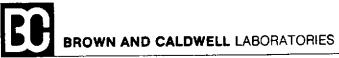
(Low Level), mg/kg

EMS 1-6

EMS 1-9

LOG NO

02-248-1 02-248-2



# ANALYTICAL REPORT

1255 POWELL STREET EMERYVILLE, CA 94608 4 (415) 428-2300

LOG NO: E89-02-248

Received: 08 FEB 89 Reported: 22 FEB 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SFO 27289.AD.FW

REPO	RT OF ANALY	TICAL RESUL	TS		Page 2
LOG NO SAMPLE DESCRIPTION,	SOIL SAMPLE	S		· DAT	E SAMPLED
02-248-1 EMS 1-6 02-248-2 EMS 1-9 02-248-3 EMS 2-6 02-248-4 EMS 2-9 02-248-5 EMS 3-6					08 FEB 89 08 FEB 89 08 FEB 89 08 FEB 89
PARAMETER	02-248-1	02-248-2	02-248-3	02-248-4	02-248-5
EPA Method 8010 Date Extracted  1,1,2,2-Tetrachloroethane, ug/kg 1,1-Dichloroethane, ug/kg 1,1-Dichloroethane, ug/kg 1,2-Dichloroethane, ug/kg 1,2-Dichlorobenzene, ug/kg 1,2-Dichloroethane, ug/kg 1,2-Dichloroethane, ug/kg 1,2-Dichloropropane, ug/kg 1,3-Dichloropropane, ug/kg 1,4-Dichlorobenzene, ug/kg 2-Chloroethylvinylether, ug/kg Bromodichloromethane, ug/kg Bromoform, ug/kg Chlorobenzene, ug/kg Carbon Tetrachloride, ug/kg Chloroethane, ug/kg	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	02/15/89 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	02/15/89 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	02/15/89 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	
Chloroform, ug/kg Chloromethane, ug/kg Dibromochloromethane, ug/kg	<5 <5 <5	<5 <5 <5	<5 <5 <5	<5 <5 <5	· 
Dichlorodifluoromethane, ug/kg	<5	₹5	75	\	



**ANALYTICAL REPORT** 

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

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Project: SFO 27289.AD.FW

REPO	RT OF ANALY	TICAL RESUL	TS		Page 3
LOG NO SAMPLE DESCRIPTION,	SOIL SAMPLE	:S		DA'	re sampled
02-248-1 EMS 1-6 02-248-2 EMS 1-9 02-248-3 EMS 2-6 02-248-4 EMS 2-9 02-248-5 EMS 3-6					08 FEB 89 08 FEB 89 08 FEB 89 08 FEB 89
PARAMETER	02-248-1	02-248-2	02-248-3	02-248-4	02-248-5
Freon 113, ug/kg  Methylene chloride, ug/kg  Tetrachloroethylene, ug/kg  1,1,1-Trichloroethane, ug/kg  Trichloroethylene, ug/kg  Trichlorofluoromethane, ug/kg  Vinyl chloride, ug/kg  cis-1,3-Dichloropropene, ug/kg  trans-1,3-Dichloropropene, ug/kg  Other EPA Method 8010	6 <5 <5 <5 <5 <5 <5 <5 kg <5	8 <5 <5 <5 <5 <5 <5	5 5 5 5 8 5 5 5 5	<5 <5 <5 17 <5 <5 <5	



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1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

LOG NO: E89-02-248

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· _	n en	ORT OF ANALY	TTCAL RESUL	.TS		Page 4
	KEP	OKI OF MINDI	IIOAD IGDOL			
LOG NO SA	MPLE DESCRIPTION,	SOIL SAMPLE	S			TE SAMPLED
<b>4</b>	IS 2-9					08 FEB 89 08 FEB 89 08 FEB 89 08 FEB 89
PARAMETER		02-248-1	02-248-2	02-248-3	02-248-4	02-248-5
1,3-Dichloro 1,4-Dichloro Chlorobenzen Benzene, ug/ Ethylbenzene Toluene, ug/	ed  benzene, ug/kg  benzene, ug/kg  benzene, ug/kg  e, ug/kg  kg  , ug/kg  kg  Isomers, ug/kg	02/15/89 <5 <5 <5 <5 <5 <5 <5	02/15/89 <5 <5 <5 <5 <5 <5 <5	02/15/89 <5 <5 <5 <5 <5 <5 <5	02/15/89 <5 <5 <5 <5 <5 <5 <5	02/16/89 <5 <5 <5 <5 <5 <5 <5

106# 8902248 CHM HILL CHAIN OF CUSTODY RECORD FOR LAB USE ONLY PROJECT NAME PROJECT NUMBER ANALYSES REQUESTED SF0 27289.AD.FW | Plant 35 Tanks CLIENT NAME. PROJ # \_\_\_\_\_ Del monte NUMBER OF CONTAINERS COPY TO: REPORT TO: Susan Colman ACK \_\_\_\_\_\_VERIFIED \_\_\_\_\_ DATE INVOICED \_\_\_\_\_ LABORATORY REQUESTED COMPLETION DATE NO. OF SAMPLES \_\_\_\_\_\_ of \_\_\_ of \_\_\_ Brown & Caldwell 2122-189 DISPOSITION: D R \_\_\_\_ COMP STA SAMPLE DESCRIPTION DATE TIME Note nethodo-2/8/89 10:10 V EMS1-6 TPH-00 900 -> 5030 Ems1-9 10:30 TPH desel -> sonication 4 EM52-6 2 10,40 6 Emsa-9 111.05 fuel smell 11:55 6 5m53-6 1 Ems 3-9 12:05 RECEIVED BY: (SIGNATURE) DATE/TIME DATE/TIME 2/8/89 12:30 RELINQUISHED BY (SIGNATURE) SAMPLED BY AND TITLE (SIGNATURE) 1 Juses Colyan RECEIVED BY LAB: (SIGNATURE) DATE/TIME RELINQUISHED BY: (SIGNATURE) PENNEUISHET BY: (SIGNATURE) RECEIVED BY: (SIGNATURE) DATE/TIME DATE/TIME AIR BUS BILL NUMBER SAMPLE SHIPPED VIA SAMPLING PROGRAM ☐ UPS ☐ BUS ☐ FED-EX REMARKS \_\_\_\_\_ **SDWA NPDES** ☐ HAND OTHER \_\_\_\_ REV. 6/87 FORM

CONTO COODDINATOR BILL CONTO COODDINATOR BILLD BILES VEHOW - CHENT



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 \* (415) 428-2300

LOG NO: E89-03-552

Received: 22 MAR 89 Reported: 07 APR 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.AD.FW

#### REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DA	TE SAMPLED
03-552-1 03-552-2 03-552-3	S2-S4 S2-S2 S2-G2			22 MAR 89 22 MAR 89 22 MAR 89
PARAMETER		03-552-1	03-552-2	03-552-3
C18-C30 Hyd	rocarbons, mg/kg	<10	<10	<10
Date Analy		04.03.89	04.03.89 1	04.03.89 50
Benzene, m		<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
Ethylbenze Toluene, m	g/kg	<0.1 <0.1	<0.1 <0.1	0.14 0.72
Fuel Chara	ne Isomers, mg/kg cterization, .	<5.0	 <5.0	GAS 220
Volatile F Other Fue	uel Hydrocarbons, mg/kg 1 Hydrocarbons + BTX			

This fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-03-552

Received: 22 MAR 89 Reported: 07 APR 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.AD.FW

	REPORT OF ANALYTICAL	RESULTS		Page 2
LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DA'	TE SAMPLED
03-552-1 03-552-2 03-552-3	\$2-\$2			22 MAR 89 22 MAR 89 22 MAR 89
PARAMETER		03-552-1	03-552-2	03-552-3
1,1,2,2-Te 1,1,2-Tric 1,1-Dichlo 1,1-Dichlo 1,2-Dichlo 1,2-Dichlo 1,2-Dichlo 1,2-Dichlo 1,3-Dichlo 1,4-Dichlo 2-Chloroet Bromodichl Bromometha Bromoform, Chlorobena Carbon Tet Chloroetha Chloroford Chlorometha Dibromoch	8010 zed cted chloroethane, mg/kg ctrachloroethane, mg/kg chloroethane, mg/kg croethane, mg/kg croethylene, mg/kg croethane, mg/kg croethane, mg/kg croethane, mg/kg croethene (Total), mg/kg cropropane, mg/kg crobenzene, mg/kg crobenzene, mg/kg crobenzene, mg/kg crobenzene, mg/kg crobenzene, mg/kg crobenzene, mg/kg cromethane, mg/kg crachloride, mg/kg	03.29.89 03.29.89 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	04.01.89 04.01.89 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	
Dichlorod:	ifluoromethane, mg/kg			

#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-03-552

Received: 22 MAR 89 Reported: 07 APR 89

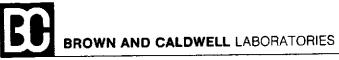
Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.AD.FW

## REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION, S	SOIL SAMPLES		DA	TE SAMPLED
03-552-1 03-552-2 03-552-3	S2-S4 S2-S2 S2-G2				22 MAR 89 22 MAR 89 22 MAR 89
PARAMETER			03-552-1	03-552-2	03-552-3
Tetrachlor Trichloroe Trichlorof Vinyl chlo	mg/kg chloride, mg/kg oethylene, mg/kg thylene, mg/kg luoromethane, mg/kg oride, mg/kg chloropropene, mg/kg		<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 0.07 <0.01 <0.01	
	Dichloropropene, mg/kg	g	<0.01	<0.01	



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Project: SF027289.AD.FW

	REPORT OF ANALYTICA	AL RESULTS		Page 4
LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DA	TE SAMPLED
03-552-1 03-552-2 03-552-3	S2-S2			22 MAR 89 22 MAR 89 22 MAR 89
PARAMETER		03-552-1	03-552-2	03-552-3
Date Extract Date Analyz Dilution Fallution Fallution Fallution Fallution Fallution Fallution Fallution Fallution I,2-Dichlor I,3-Dichlor I,4-Dichlor I,4-Dichlor I,4-Dinitro	ri.Poll. (EPA-8270)  rted  red  actor, Times  alorobenzene, mg/kg  robenzene, mg/kg  robenzene, mg/kg  robenzene, mg/kg  robenzene, mg/kg  robenzene, mg/kg  rophenol, mg/kg  rophenylether, mg/kg	03.22.89 03.31.89  1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	03.31.89 1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	



## **ANALYTICAL REPORT**

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LOG NO: E89-03-552

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Project: SF027289.AD.FW

# REPORT OF ANALYTICAL RESULTS

Page 5

Acenaphthylene, mg/kg Anthracene, mg/kg Bis(2-ethylhexyl)phthalate, mg/kg C-chloroethyl)ether, mg/kg Bis(2-chloroisopropyl)ether, mg/kg Bis(2-chloroethoxy)methane, mg/kg C-chloroethoxy)methane, mg/kg C-chloroethoxy)m		TE SAMPLED
Acenaphthylene, mg/kg Anthracene, mg/kg Bis(2-ethylhexyl)phthalate, mg/kg  Bis(2-chloroethyl)ether, mg/kg  Bis(2-chloroisopropyl)ether, mg/kg  Bis(2-chloroethoxy)methane, mg/kg  Bis(2-chloroethoxy)methane, mg/kg  Benzo(a)anthracene, mg/kg  Benzo(a)pyrene, mg/kg  Benzo(b)fluoranthene, mg/kg  Benzo(b)fluoranthene, mg/kg  Benzo(k)fluoranthene, mg/kg  Benzo(k)fluoranthene, mg/kg  Chrysene, mg/kg  Di-n-octylphthalate, mg/kg  Dibenzo(a,h)anthracene, mg/kg  Dibutylphthalate, mg/kg  Co.1		22 MAR 89 22 MAR 89 22 MAR 89
Acenaphthylene, mg/kg Anthracene, mg/kg Bis(2-ethylhexyl)phthalate, mg/kg Benzidine, mg/kg Bis(2-chloroethyl)ether, mg/kg Bis(2-chloroisopropyl)ether, mg/kg Bis(2-chloroethoxy)methane, mg/kg Benzo(a)anthracene, mg/kg Benzo(a)pyrene, mg/kg Benzo(b)fluoranthene, mg/kg Benzo(b)fluoranthene, mg/kg Benzo(k)fluoranthene, mg/kg Benzo(k)fluoranthene, mg/kg Chrysene, mg/kg Di-n-octylphthalate, mg/kg Dibenzo(a,h)anthracene, mg/kg Dibutylphthalate, mg/kg Coll	03-552-2	03-552-3
Diethylphthalate, mg/kg  Dimethylphthalate, mg/kg  Fluorene, mg/kg  Fluoranthene, mg/kg  Hexachlorobenzene, mg/kg  Hexachlorobutadiene, mg/kg  Hexachlorocyclopentadiene, mg/kg  Co.1  Co.1  Co.1  Co.1  Co.1  Co.1  Co.1	<0.1 <10 <4 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	



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Project: SF027289.AD.FW

## REPORT OF ANALYTICAL RESULTS

Page 6

LOG NO SAMPLE DESCRIPTION, SOIL SA	AMPLES	DA	TE SAMPLED
03-552-1 S2-S4 03-552-2 S2-S2 03-552-3 S2-G2			22 MAR 89 22 MAR 89 22 MAR 89
PARAMETER	03-552-1	03-552-2	03-552-3
Indeno(1,2,3-c,d)pyrene, mg/kg Isophorone, mg/kg N-Nitrosodi-n-propylamine, mg/kg N-Nitrosodimethylamine, mg/kg N-Nitrosodiphenylamine, mg/kg Naphthalene, mg/kg Nitrobenzene, mg/kg Pentachlorophenol, mg/kg Phenanthrene, mg/kg Phenol, mg/kg	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	
Pyrene, mg/kg	<0.1	(0.1	

Sim D. Lessley, Ph.D., Laboratory Director

CHA	IHIப	. CHA	IN C	OF (	CUSTO	DDY RECORD			p£\									
PROJEC	NUMBER	<u></u>	PRC	DIECÍ	NAME	la Plant 3	57,015	3	365			ANA	LYSES R	EQUESTED		F	OR LAB USE ONI	LY
-						one Plant 3	50 1C(NL)	2,526	1							LAB #		
CLIENT I	IAME &	CH	24	~ I	HILL	-		l	トフ	8						PROJ#		<u></u>
	79レ					COPY TO:		OF CONTAINERS	350	() (O)						ACK	VERIFIED	
	ED COM	<del></del>				LABORATORY	0.0.11	Ö.	gase	50.	1					DATE INVOIC	ED	
REGIOCO		2211011				Brown &	Caldwell	R OF	8	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 1	12	7			NO. OF SAME	PLES pg	of
STA NO	DATE	TIME	COMP	GRAB		SAMPLE DESCI	•	NUMBER	中中	25	4011	8270	HOL			DISPOSITION:	D R	DATE
NO			<del> </del>	1	5.1	-61*			i	l			X	290	23551	Novn	al TAT	Hold.
	3/22		1	, ,	ļ	-54	· ·	ļ	1		1	1				1		
3		13.00		1 * 1	l.	S2			1,	1	1	1						
4		13.10	1	X	1	-62			1							4		
1		13:25	4	7	T	-63	•		1	1						24 hr	RUSH 8	1035501
6	W	13:30		1		-64	•	ı	1		1					24 hr	RUST	-2
7		13,45	٠.	V	_ <del></del> _	-45	(high)		1	1						24 hr	RUSH	V -3
	<b>V</b>	1-1-0	-		1													
	<u> </u>			1														
					1			.]								***************************************		
<del>-</del>	-	<u> </u>						]		<u> </u>						 		
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							1			<u> </u>		Ш.		DATE / TILL AT	DECENTED B	Y: (SIGNATURE)		DATE/TIME
SAMPL	ED-BY AND	TITLE (SIG	NATU	IRE)		DATE/TIME	RELINGUISHED BY	•	iatur /		1	<u>ب</u>		DATE/TIME	3	(SIGNATURE)		
1	11	1	UDT\	4	) DATE/TIM	RECEIVED BY:	(SIGNATURY) [	DATE/I	IME	-U	RELING	ONSHI	ED BY: (	SIGNATURE)	DATE/TIME	RECEIVED BY	LAB: (SIGNATURE)	DATE/TIME
	OUISHED BY	r: (DIGNAT	ukt)	-	JAIE/ IIIV	5	(SIGNACIONE)				6			<u> </u>	-	7 ill	Blake	03/22/84 14.
4					_			S/	AMPL		PROG	RAM			SAMPLE SHIPPE	D VIA	AIR BUS BILL NUME	
REMA	RKS						1	NPDES			^QA		HER _	DEC IDA	UPS BU			
l										1014	اعراب		(\$	PECIFY)	1			REV. 6/87 FOR1



Date Analyzed

Dilution Factor, Times

C4 to C12 Hydrocarbons, mg/kg

Other TPH - Volatile Hydrocarbons

## **BROWN AND CALDWELL LABORATORIES**

### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-05-143

Received: 04 MAY 89

Reported: 08 MAY 89

REVISED 5/25/87

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.A0.GW

52

1 .

18

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DA'	TE SAMPLED
05-143-1 05-143-2 05-143-3	AS-1, Aerated Soil From Gas Excavation GT-1, Well Cuttings From Gas Tank ST-1, Well Cuttings From Solvent Tanks			04 MAY 89 04 MAY 89 04 MAY 89
PARAMETER		05-143-1	05-143-2	05-143-3
Ammonia Ni	trogen, mg/kg			4.6
	tile Hydrocarbons	05.04.89	05.04.89	

REPORT OF ANALYTICAL RESULTS

Sim D. Lessley, Ph.D. Laboratory Director



## **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 4 (415) 428-2300

LOG NO: E89-05-143

Received: 04 MAY 89

Reported: 08 MAY 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.A0.GW

	Page 2	
LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-143-3	ST-1, Well Cuttings From Solvent Tanks	04 MAY 89
PARAMETER	05-1	43-3
Ammonia Ni	trogen, mg/kg	4.6



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

LOG NO: E89-05-143

Received: 04 MAY 89

Reported: 08 MAY 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.A0.GW

# REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO SAMPLE DESCRIPTION, SOIL S	AMPLES DATE SAMPLED
05-143-3 ST-1, Well Cuttings From S	O/ WAY 90
PARAMETER	05-143-3
PARAMETER  EPA Method 8010  Date Analyzed  Date Extracted  1,1,1-Trichloroethane, mg/kg  1,1,2-Tetrachloroethane, mg/kg  1,1-Dichloroethane, mg/kg  1,1-Dichloroethane, mg/kg  1,2-Dichlorobenzene, mg/kg  1,2-Dichloroethane, mg/kg  1,2-Dichloroethane, mg/kg  1,2-Dichloroethene (Total), mg/kg  1,2-Dichloropropane, mg/kg  1,3-Dichlorobenzene, mg/kg  1,4-Dichlorobenzene, mg/kg  2-Chloroethylvinylether, mg/kg  Bromodichloromethane, mg/kg  Bromoform, mg/kg	05.06.89 05.04.89 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01
Chlorobenzene, mg/kg Carbon Tetrachloride, mg/kg Chloroethane, mg/kg Chloroform, mg/kg Chloromethane, mg/kg Dibromochloromethane, mg/kg Dichlorodifluoromethane, mg/kg Freon 113, mg/kg Methylene chloride, mg/kg	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 € (415) 428-2300

LOG NO: E89-05-143

Received: 04 MAY 89 Reported: 08 MAY 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.A0.GW

## REPORT OF ANALYTICAL RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DATE SAMPLED
05-143-3	ST-1, Well Cuttings From Solvent Tanks		04 MAY 89
PARAMETER		05-143-3	
Trichloro Trichloro Vinyl chl cis-1,3-D	roethylene, mg/kg ethene, mg/kg fluoromethane, mg/kg oride, mg/kg ichloropropene, mg/kg -Dichloropropene, mg/kg	<0.01 0.63 <0.01 <0.01 <0.01 <0.01	

Results were reported verbally to you on 05.08.89. TB 05.09.89
Results for TCE on sample ST-1 were confirmed upon a second review of the data.
TB 05.10.89

Sim D. Lessley, Ph.D., Laboratory Director

Client nar	no CHa	Chru	U	L		Project or PO# SF027289, Phone #		6W			/5	3	$\sqrt{}$	<u> </u>	nalyses	require	7	/ <sub>\$</sub> /	1		
7.00,000	6425	Chri	STE-	AVC.	Report attenti	652-240	26				11h		' /			/ /	/ /s				1
City, State	5, z 10 Emo	mul	6	<u>Cr</u>	Su	san Colman				/ Q	adilla di		/m			Ι.					
Lab		, Time	Type* See key	Sampled by				Number of		\/\			$\mathcal{Y}'$								
Sample number	Date sampled	sampled	below		· ·	e description		ontainers			A A	<u>X</u> Z	<del>Y</del>		_	/*0	<u>Z</u> _		Remarks	(free)	$\overline{}$
AS-1	5/4/89	0800	50	Aerate	ed soil	from gas excave from gas book om Solven tan	ethon.		X								e. 4	& hv	Rus	dy (B)	
		0820	50	well c	uttings	from gas book		1_	X												$\dashv$
57-1	V	0830	30	well a	thras to	om solvent tan	ks				X	X			<u> </u>						
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			<u></u>					<del></del>	<u> </u>		<u> </u>	Compa	l NDV	<u> </u>	<u></u>	<u> </u>	<u> </u>	Da	le	Time	
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Relinqu	uished by															<u> </u>		1	]		
Receiv	ed by Laborate	on you	my Bl	lake	Ton	y Blake		1 6	<u> </u>	AL								13/4	189	09:15	<u>&gt;</u>

1255 Powell Street, Emeryville, CA 94608 (415) 428-2300

☐ 373 South Fair Oaks Avenue, Pasadena, CA 91105 (818) 795-7553

nue, Anaheim, CA 92805 1200 Pacific

Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

\*KEY: AQ-Aqueous NA-Nonaqueous SL-Sludge GW-Groundwater SO-Soil C ther PE-Petroleum



## **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

LOG NO: E89-05-590

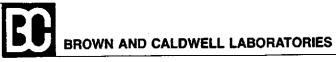
Received: 19 MAY 89 🖴

Reported: 06 JUN 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.A0.GW

	CICAL RESULTS	Page 1	
LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	}	DATE SAMPLED
05-590-1	DM-MW8S-589		19 MAY 89
PARAMETER		05-590-1	
1,1,2,2-Tri 1,1-Dichl 1,1-Dichl 1,2-Dichl 1,2-Dichl 1,2-Dichl 1,2-Dichl 1,3-Dichl 1,4-Dichl 2-Chloroe Bromodich Bromoform Chloroben Carbon Te Chloroeth Chlorofor Chloromet Dibromoch Dichlorod Freon 113	8010 yzed acted chloroethane, mg/kg etrachloroethane, mg/kg chloroethane, mg/kg oroethene, mg/kg oroethane, mg/kg oroethane, mg/kg orobenzene, mg/kg oropropane, mg/kg orobenzene, mg/kg orobenzene, mg/kg thylvinylether, mg/kg ane, mg/kg etrachloride, mg/kg thane, mg/kg chane, mg/kg	06.01.89 05.31.89 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-05-590

Received: 19 MAY 89

Reported: 06 JUN 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.A0.GW

# REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLE	ZS .	DATE SAMPLED
05-590-1	DM-MW8S-589		19 MAY 89
PARAMETER		05-590-1	
Trichloros Tetrachlos Vinyl chlo Cis-1,3-D	ethene, mg/kg fluoromethane, mg/kg roethene, mg/kg oride, mg/kg ichloropropene, mg/kg -Dichloropropene, mg/kg	0.18 <0.01 <0.01 <0.01 <0.01 <0.01	

Sim D. Lessley, Ph.D., Laboratory Director

MHILL CHAIN OF CUSTODY RECORD PROJECT NUMBER FOR LAB USE ONLY **ANALYSES REQUESTED** SF027289.ADAW Plant 35 Groundwater -Solvent CLIENT NAME Del Monte PROJ# \_\_\_\_\_ REPORT TO SUE COLMAN (SFO o Sett Heglie (SFO)

REQUESTED COMPLETION DATE

See remarks.

LABORATORY.

BIC/Emeryville ACK \_\_\_\_\_\_VERIFIED \_\_\_ DATE INVOICED \_\_\_\_\_ NO. OF SAMPLES \_\_\_\_\_ pg \_\_\_\_ of \_\_ See remarks. DISPOSITION: D R \_\_\_\_\_ COMP STA REMARKS SAMPLE DESCRIPTION DATE TIME 0519 13:00 X DM-MW75-589 Soil DM-MW85-589 507 NOTE Humogerize Sumples Mix contents Month Hydrogeologis 05/989 DATE/TIME RECEIVED BY: (SIGNATURE) DATE/TIME RELINQUISHED BY (SIGNATURE) SAMPLED BY, AND TITLE (SIGNATURE) RECEIVED BY LAB: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) DATE/TIME DATE/TIME PELINQUISHED BY (SIGNATURE) | DATE/TIME RECEIVED BY: (SIGNATURE) DATE/TIME 5/19/89 1354 SAMPLE SHIPPED VIA AIR BUS BILL NUMBER REMARKS LOG # 8905590 NORMAL 8905594 RUSH SAMPLING PROGRAM ☐ UPS ☐ BUS ☐ FED-EX **RCRA SDWA NPDES** HAND OTHER \_

### **ANALYTICAL REPORT**

3 E C E V 1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

JUL 3 1 1989

CH2M - HILL SAN FRANCISICO LOG NO: E89-07-044

Received: 05 JUL 89 Reported: 17 JUL 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SFO 27289.A0.GW

#### REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SO	OIL SAMPL	ES		DA	TE SAMPLED
	MW9-8-8.5 MW9-14-14.5 MW11-10-10.5 MW11-16-16.5 MW10-10.5-11					05 JUL 89 05 JUL 89 05 JUL 89 05 JUL 89 06 JUL 89
PARAMETER	(	07-044-1	07-044-2	07-044-3	07-044-4	07-044-5
1,1,2,2-Te 1,1,2-Tric 1,1-Dichle 1,1-Dichle 1,2-Dichle 1,2-Dichle 1,2-Dichle 1,2-Dichle 1,2-Dichle 1,4-Dichle 2-Chloroe Bromodich	rzed ( acted ( chloroethane, mg/kg etrachloroethane, mg/kg chloroethane, mg/kg croethane, mg/kg croethane, mg/kg croethane, mg/kg crobenzene, mg/kg cropropane, mg/kg crobenzene, mg/kg cromethane, mg/kg	<0.01 <0.01 <0.01 <0.01 <0.01	07.13.89 07.12.89 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	07.13.89 07.12.89 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	07.13.89 07.12.89 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	07.13.89 07.12.89 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01
Bromoform Chloroben Carbon Te Chloroeth Chlorofor	zene, mg/kg trachloride, mg/kg ane, mg/kg	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01

## **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-07-044

Received: 05 JUL 89 Reported: 17 JUL 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SFO 27289.A0.GW

## REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, S	OIL SAMPL	ES		DA'	TE SAMPLED
07-044-1 07-044-2 07-044-3 07-044-4 07-044-5	MW9-8-8.5 MW9-14-14.5 MW11-10-10.5 MW11-16-16.5 MW10-10.5-11					05 JUL 89 05 JUL 89 05 JUL 89 05 JUL 89 06 JUL 89
PARAMETER		07-044-1	07-044-2	07-044-3	07-044-4	07-044-5
Dichlorodi Freon 113, Methylene Trichlorod Trichlorod Tetrachlor Vinyl chlo Cis-1,3-D	loromethane, mg/kg Ifluoromethane, mg/kg , mg/kg chloride, mg/kg ethene, mg/kg fluoromethane, mg/kg roethene, mg/kg oride, mg/kg ichloropropene, mg/kg	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01 0.02 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01 0.02 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01

#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 \* (415) 428-2300

LOG NO: E89-07-044

Received: 05 JUL 89 Reported: 17 JUL 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SFO 27289.AO.GW

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DATE SAMPLED
07-044-6	MW10-15.5-16		06 JUL 89
DADAMETED		07-044-6	
EPA Method Date Analy Date Extra 1,1,1-Tri 1,1,2,2-T 1,1,2-Tri 1,1-Dichl 1,2-Dichl 1,2-Dichl 1,2-Dichl 1,2-Dichl 1,3-Dichl 1,4-Dichl 2-Chloroe Bromodich Bromometh Bromoform Chloroben Carbon Te Chloroett Chloromet Dibromoch Dichloroe Freon 113	8010 yzed acted chloroethane, mg/kg etrachloroethane, mg/kg chloroethane, mg/kg oroethene, mg/kg oroethane, mg/kg oroethane, mg/kg oroethane, mg/kg orobenzene, mg/kg torobenzene, mg/kg torobenzene, mg/kg torobenzene, mg/kg torobenzene, mg/kg toromethane, mg/kg thylvinylether, mg/kg mane, mg/kg	07.13.89 07.12.89 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

LOG NO: E89-07-044

Received: 05 JUL 89 Reported: 17 JUL 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SFO 27289.AO.GW

#### REPORT OF ANALYTICAL RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DATE SAMPLED
07-044-6	MW10-15.5-16		06 JUL 89
PARAMETER		07-044-6	
Trichloro Tetrachlo Vinyl chl Cis-1,3-D	ethene, mg/kg fluoromethane, mg/kg roethene, mg/kg oride, mg/kg ichloropropene, mg/kg -Dichloropropene, mg/kg	<0.01 <0.01 0.01 <0.01 <0.01 <0.01	

Note: QA report included consists only of laboratory control standard. No charge will be applied. T. Blake 07.26.89

Sim D. Lessley, Ph.D., Laboratory Director

#### BATCH QC REPORT ORDER E8907044

ATE REPORTED : 07/20/89

Page 1

	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
AMETER	MARITED	Homber				
PMethod 8010	07.12.89	247	7231	7231	No.	100
Analyst ID	07.12.89	247	0.010	0.010	ug	100
Detection Limit	07.12.89	247	1	1	Times	100
Dilution Factor	07.12.89	247	0.101	0.100	ug	101
1,1,1-Trichloroethane	07.12.89	247	0.094	0.100	ug	94
_1,1-Dichloroethene	07.12.89	247	0.103	0.100	ug	103
1,1-Dichloroethane	07.12.89	247	0.102	0.100	ug	102
1,2-Dichloroethane	07.12.89	247	0.122	0.100	ug	122
1,2-Dichlorobenzene	07.12.89	247	0.089	0.100	ug	89
1,2-Dichloroethene (Total)	07.12.89	247	0.104	0.100	ug	104
1,2-Dichloropropane	07.12.89	247	0.116	0.100	ug	116
1,3-Dichlorobenzene	07.12.89	247	0.120	0.100	ug	120
1,4-Dichlorobenzene	07.12.89	247	0.106	0.100	ug	106
2-Chloroethylvinylether	07.12.89	247	0.106	0.100	ug	106
Bromodichloromethane	07.12.89	247	0.082	0.100	ug	82
Bromomethane	07.12.89	247	0.112	0.100	ug	112
Bromoform	07.12.89	247	0.108	0.100	ug	108
Chlorobenzene	07.12.89	247	0.103	0.100	ug	103
Carbon Tetrachloride	07.12.89	247	0.097	0.100	ug	97
Chloroethane	07.12.89	247	0.103	0.100	ug	103
Chloroform	07.12.89	247	0.069	0.100	ug	69
Chloromethane	07.12.89	247	0.110	0.100	ug	110
Dibromochloromethane	07.12.89		0.109	0.100	ug	109
Freon 113	07.12.89		0.140	0.100	ug	140
Methylene chloride	07.12.89		0.102	0.100	ug	102
_Trichloroethene	07.12.89		0.118	0.100	ug	118
Trichlorofluoromethane	07.12.89		0.091	0.100	ug	91
Tetrachloroethene	07.12.89		0.050	0.100	ug	50
Vinyl chloride	07.12.09	<b>4-11</b>	•			

CHAIN OF COSTODY RECORD								
PROJECT NUMBER PROJECT NAME 19289, AV. GW DE MONTE				ANA	ALYSES	REQU	ESTED	FOR LAB USE ONLY
17289, Av. GW Del Monte								LAB#
CLIENT NAME THAM HILL								PROJ#
REPORT TO: COPY TO:	CONTAINERS							ACKVERIFIED
REPORT TO: COPY TO:	\ \frac{\x}{\x}							
REQUESTED COMPLETION DATE LABORATORY  1/20/89 Brun & Calchiel		0						NO. OF SAMPLES pg of
	NUMBER OF							
STA NO DATE TIME SAMPLE DESCRIPTION	NUM	3						DISPOSITION: D R
mw17/5/391200 X mw9-8-8.5	1	X						KENDARO
	-+-	X						
t 1300 X mw9-14-14.5		Ī —			<del> </del> -	+		
MWII 1520 X MWII-10-10.5	1	X			-			( ) ( ) ( )
1535 X mw16-16,5		Χ						Labelled MWII-16-16.5
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SAMPLED BY AND TITLE (SIGNATURE) DATE/TIME RELINIQUISHED	BY (SIGNA	TURE)	17			DA)	TE/TIME	RECEIVED BY: (SIGNATURE)  DATE/TIME
1 my Coly 21 7/5/39/615 2 mg	216	27		731		162	57	3
RELINQUISHED BY: (SIGNATURE) DATE/TIME RECEIVED BY: (SIGNATURE)	DATE/TII	νŒ	REC	INQUISHE	D BY:	(SIGN	ATURE)	DATE/TIME RECEIVED BY LAB: (SIGNATURE) DATE/TIME
4 5			6	<del></del>				7 Uguseo Bellon 7/5/87 162
REMARKS		MPLIN		OGRAM				SAMPLE SHIPPED VIA AIR BUS BILL NUMBER
SDWA	NPDE\$		RCR.	A OT	HER _	SPECIFY	 )	UPS BUS FED-EX HAND OTHER

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REMAR				<u> </u>							•			NG PR		AM						HIPPEC		AIR BUS BILL NUME	BER
KEIAÑAN									_	SDWA		IPDES		RCI		OTHE	ER	PECIFY)	)			OTHE	FED-EX		



August 15, 1989

LRD191.10

CH2M HILL 6425 Christie Ave., Suite 500 Emeryville, CA 94608

Attention: Susan Colman

Dear Susan:

Enclosed please find the results for samples received at our laboratory on July 7, 1989 for the Del Monte Project.

If you have any questions please feel free to contact us.

Thank you for selecting a CH2M HILL laboratory for your analytical testing needs.

Sincerely,

CH2M HILL QUALITY ANALYTICS LABORATORY

Barbara J. Hurley

Document Control Officer

arbaia J. Hurly

Encl.



Report To: Del Monte Plant 35

CH2M Hill/SFO SFO 27289.AO.GW

Susan Coleman/SFO

Attention: Sample Description: Soils Date of Sample: 7/5/89

Reference Number: 23680

Page 1 of 3 Date: 8/14/89

Phone:

Sampled By: Client Date Received: 7/7/89

TEST	MW9 8.5-9	MW9 13- 13.5	UNITS	DETECTION LIMIT	DATE ANALYZED	METHOD NUMBER
Bulk Density	1.60	1.48	grams/cm3	N/A	7-28-89	30.2
Porosity	38.5	43.3	*	N/A	8-9-89	21-2.1
% Sand	39	31	8	1	7-13-89	514.4.4
% Silt	30	44	8	1	7-13-89	514.4.4
% Clay	31	25	8	1	7-13-89	514.4.4
TOC/Sand 75-2000u	560	2310	mg/kg	100	8-11-89	3-75
TOC/Silt 45-75u	675	410	mg/kg	100	8-11-89	3-75
TOC/Clay <45u	1170	1390	mg/kg	100	8-11-89	3-75
Particle Density	2.60	2.61	units	N/A	7-28-89	29-3.2

mg/kg = milligrams per kilogram. Comments:

TOC = Total Organic Carbon.

\* Percentage of the bulk volume not occupied by solids.

The information shown on this sheet is test data only and no analysis or interpretation is intended or implied.

Approved By: Bujon W- france



Report To: Del Monte Plant 35

CH2M Hill/SFO

SFO 27289.AO.GW

Susan Coleman/SFO Attention: Sample Description: Soils Date of Sample: 7/5/89

Reference Number: 23680

Page 2 of 3

Date: 8/14/89

Phone:

Sampled By: Client Date Received: 7/7/89

TEST	MW11 10.5 -11	MW11 16.5 -17	UNITS	DETECTION LIMIT	DATE ANALYZED	METHOD NUMBER
Bulk Density	1.47	1.40	grams/cm3	N/A	7-28-89	30.2
Porosity	43.5	46.0	<b>*</b>	N/A	8-9-89	21-2.1
% Sand	24	31	8	· 1	7-13-89	514.4.4
% Sand   % Silt	44	41	8	1	7-13-89	514.4.4
% Clay	32	28	8	1	7-13-89	514.4.4
TOC/Sand 75-2000u	735	395	mg/kg	100	8-11-89	3-75
TOC/Silt 45-75u	52 <b>5</b>	870	mg/kg	100	8-11-89	3-75
TOC/Clay <45u	1450	1370	mg/kg	100	8-11-89	3 <b>-</b> 75
Particle Density	2.60	2.59	units	N/A	7-28-89	29-3.2

mg/kg = milligrams per kilogram. Comments:

TOC = Total Organic Carbon.

\* Percentage of the bulk volume not occupied by solids.

The information shown on this sheet is test data only and no analysis or interpretation is intended or implied.

Approved By: pergen R. for to



Del Monte Plant 35 Report To:

CH2M Hill/SFO SFO 27289.AO.GW

Attention: Susan Coleman/SFO

Sample Description: Soils Date of Sample: 7/5/89

Reference Number: 23680

Page 3 of 3

Date: 8/14/89

Phone:

Sampled By: Client Date Received: 7/7/89

	TEST	MW10 11- 11.5	MW10 16- 16.5	UNITS	DETECTION LIMIT	DATE ANALYZED	METHOD NUMBER
	Bulk Density	1.55	1.45	grams/cm3	N/A	7-28-89	30.2
ı	Porosity	39.5	44.2	*	N/A	8-9-89	21-2.1
	% Sand	20	33	%	1	7-13-89	514.4.4
l	% Silt	49	39	%	1	7-13-89	514.4.4
	% Clay	31	28	%	1	7-13-89	514.4.4
	TOC/Sand 75-2000u	325	260	mg/kg	100	8-11-89	3-75
	TOC/Silt 45-75u	295	780	mg/kg	100	8-11-89	3−75
	TOC/Clay <45u	285	19700	mg/kg	100	8-11-89	3-75
ı	Particle Density	2.56	2.60	units	N/A	7-28-89	29-3.2

mg/kg = milligrams per kilogram. Comments:

TOC = Total Organic Carbon.

\* Percentage of the bulk volume not occupied by solids.

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Approved By: Rugan P. Smel

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												PROG						MPLE SH		VIA ☐ FED-EX	AIR BUS BILL NUMB	
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## RECEIVED

BROWN AND CALDWELL LABORATORIES

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

CH2M-HILL SAN FRANCISCO LOG NO: E89-05-416

Received: 12 MAY 89

Reported: 31 MAY 89

Ms. Susan Colman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Project: SF027289.A0.GW

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DA	TE SAMPLED
05-416-1 05-416-2 05-416-3		 	12 MAY 89 12 MAY 89 12 MAY 89
PARAMETER		05-416-2	05-416-3
2,4,6-Tric 2,4-Dichlo 2,4-Dimeth 2,4-Dinitr 2-Nitrophe 2-Chloroph	604 - Phenols hlorophenol, ug/L rophenol, ug/L ylphenol, ug/L ophenol, ug/L	 	<20 <10 <10 <20 <10 <10 <20
4-Chloro-3 4-Nitrophe Dilution F Pentachlor Phenol, ug	-methylphenol, ug/L nol, ug/L actor, Times ophenol, ug/L c/L	 	<20 <20 1 <20 <10
Other EPA	Method 604 - Phenols		



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

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#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES		DA	TE SAMPLED
05-416-1 05-416-2 05-416-3	DM-MW6-589 DM-MW7-589 DM-MW8-589			12 MAY 89 12 MAY 89 12 MAY 89
PARAMETER		05-416-1	05-416-2	05-416-3
1,1,2,2-Te 1,1,2-Tric 1,1-Dichlo 1,1-Dichlo 1,2-Dichlo 1,2-Dichlo 1,2-Dichlo 1,3-Dichlo 1,4-Dichlo 2-Chloroet Bromodichl Bromoform, Chlorobenz	zed cted hloroethane, ug/L trachloroethane, ug/L hloroethane, ug/L roethane, ug/L roethene, ug/L roethane, ug/L roethane, ug/L roethane, ug/L roethane, ug/L roethane, ug/L ropropane, ug/L robenzene, ug/L robenzene, ug/L robenzene, ug/L crobenzene, ug/L crobenzene, ug/L crobenzene, ug/L chylvinylether, ug/L coromethane, ug/L ug/L sene, ug/L			05.26.89 05.26.89 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10
Chloroetha	· · · · · · · · · · · · · · · · · · ·			<10 <10
Chloroform Chlorometh	nane, ug/L			<10 <10
	loromethane, ug/L ifluoromethane, ug/L			<10



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-05-416

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Project: SF027289.A0.GW

#### REPORT OF ANALYTICAL RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION,	AQUEOUS	SAMPLES		DA	TE SAMPLED
05-416-1 05-416-2 05-416-3	DM-MW6-589 DM-MW7-589 DM-MW8-589					12 MAY 89 12 MAY 89 12 MAY 89
PARAMETER				05-416-1	05-416-2	05-416-3
Freon 113,	ug/L					<10 <10
ı	chloride, ug/L thene, ug/L					1400
Trichlorof	luoromethane, ug/L					<10 20
	oethene, ug/L ride, ug/L					78
	chloropropene, ug/L Dichloropropene, ug/I	Ĺ				<10 <10

Sim D. Lessley, Ph.D., Laboratory Director

106 \$ 890416 **CHAM** HILL CHAIN OF CUSTODY RECORD PROJECT NUMBER PROJECT NAME FOR LAB USE ONLY ANALYSES REQUESTED SF027289.AUGU Del Monte Plant 35 CLIENT NAME Del Monte PROJ # \_\_\_\_\_ ACK \_\_\_\_\_\_ VERIFIED \_\_\_\_\_ DATE INVOICED \_\_\_\_\_ REQUESTED COMPLETION DATE NO. OF SAMPLES \_\_\_\_\_\_ pg \_\_\_\_ of \_\_\_ DISPOSITION: D R \_\_\_\_\_ STA REMARKS SAMPLE DESCRIPTION DATE TIME X DM-MW6-589 X DM-MW7-589 X DM-MW8-589 Standard Turn-Around MW-60512 13:58 MW-70512 15:20 MW80512 16:00 DATE/TIME RECEIVED BY: (SIGNATURE) DATE/TIME RELINQUISHED BY (SIGNATURE) DATE/TIME SAMPLED BY AND TITLE (SIGNATURE) 1 Milder Hydrogedogs + 051289 / RELINQUISHED BY: (SIGNATURE) | DATE/TIME | RECEIVED BY: 1630 3 RECEIVED BY LAB: (SIGNATURE) DATE/TIME RELINQUIŞHED BY: (SIGNATURE) DATE/TIME RECEIVED BY: (SIGNATURE) DATE/TIME 051287 1640 5 SAMPLE SHIPPED VIA AIR BUS BILL NUMBER SAMPLING PROGRAM ☐ UPS ☐ BUS ☐ FED-EX REMARKS \_\_\_\_\_ **SDWA** NPDE\$ OTHER. HAND OTHER \_

#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

LOG NO: E89-07-137

Received: 11 JUL 89

Reported: 25 JUL 89

Ms. Susan Coleman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608 Purchase Order: SFO 27289.AO.GW

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WAT	ER SAMPLES	DA	TE SAMPLED
07-137-3 07-137-4	MU_13			10 JUL 89 10 JUL 89
OG TOWN CAG		07-137-3		
EPA Method Date Anal Date Extr 1,1,1-Tri 1,1,2,2-Tri 1,1-Dichl 1,2-Dichl 1,2-Dichl 1,2-Dichl 1,2-Dichl 1,3-Dichl 1,4-Dichl 2-Chloroe Bromodich Bromometh Bromoforn Chlorober Carbon Te Chloroeth Chloroeth Chlorometh Dibromoch	deficient de la composition de	07.14.89 07.14.89 (2.5	07.14.89 07.14.89 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5	
Dichloro Freon 11	difluoromethane, ug/L 3, ug/L	₹2.5	<2.5	

#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

LOG NO: E89-07-137

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Ms. Susan Coleman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Purchase Order: SFO 27289.AO.GW

#### REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE DESCRIPTION, GROUND WATER SAMPLE	ES	DA	TE SAMPLED
07-137-3 MW-8 07-137-4 MW-13			10 JUL 89 10 JUL 89
PARAMETER	07-137-3	07-137-4	
Methylene chloride, ug/L Trichloroethene, ug/L Trichlorofluoromethane, ug/L Tetrachloroethene, ug/L Vinyl chloride, ug/L Cis-1,3-Dichloropropene, ug/L trans-1,3-Dichloropropene, ug/L	<2.5 330 <2.5 14 17 <2.5 <2.5	<2.5 310 <2.5 12 16 <2.5 <2.5	

#### **ANALYTICAL REPORT**

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Ms. Susan Coleman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Purchase Order: SFO 27289.AO.GW

#### REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SA	MPLES	DA	TE SAMPLED
07-137-5 07-137-6 07-137-7	MW-9 MW-10 MW-11			10 JUL 89 10 JUL 89 10 JUL 89
PARAMETER		07-137-5	07-137-6	07-137-7
pH, Units	y, umhos/cm Residue (TDS), mg/L ng/L	5.6 870 6.9 540 32 54	6.0 920 6.9 650 24 60	4.2 900 6.9 610 25 51



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-07-137

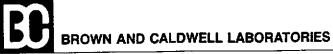
Received: 11 JUL 89 Reported: 25 JUL 89

Ms. Susan Coleman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Purchase Order: SFO 27289.AO.GW

#### REPORT OF ANALYTICAL RESULTS

Date Extracted  1,1,1-Trichloroethane, ug/L  1,1,2,2-Tetrachloroethane, ug/L  1,1,2-Trichloroethane, ug/L  1,1-Dichloroethane, ug/L  1,1-Dichloroethane, ug/L  1,2-Dichloroethane, ug/L  1,2-Dichloroethane, ug/L  1,2-Dichloroethene (Total), ug/L  1,3-Dichlorobenzene, ug/L  1,4-Dichlorobenzene, ug/L  1,4-Dichlorobenzene, ug/L  2-Chloroethylvinylether, ug/L  Bromodichloromethane, ug/L  Bromoform, ug/L  Chlorobenzene, ug/L  Chloroethane, ug/L  Chloroethane, ug/L  Chloroethane, ug/L  Chloroform, ug/L	LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMP	PLES		TE SAMPLED
EPA Method 601  Date Analyzed  Date Extracted  1,1,1-Trichloroethane, ug/L  1,1,2-Tetrachloroethane, ug/L  1,1,2-Trichloroethane, ug/L  1,1-Dichloroethane, ug/L  1,1-Dichloroethane, ug/L  1,1-Dichloroethane, ug/L  1,2-Dichloroethane, ug/L  1,2-Dichloroethane, ug/L  1,2-Dichloroethene (Total), ug/L  1,2-Dichlorobenzene, ug/L  1,3-Dichlorobenzene, ug/L  1,2-Dichlorobenzene, ug/L  1,2-Dichlorobenzene, ug/L  1,2-Dichlorobenzene, ug/L  1,2-Dichlorobenzene, ug/L  1,2-Dichlorobenzene, ug/L  1,3-Dichlorobenzene, ug/L  1,4-Dichlorobenzene, ug/L  2-Chloroethylvinylether, ug/L  Bromodichloromethane, ug/L  Bromodichloromethane, ug/L  Co.5  Co.5	07-137-6	MW-10			10 JUL 89 10 JUL 89 10 JUL 89
EPA Method 601       07.13.89       07.13.89         Date Analyzed       07.13.89       07.13.89         Date Extracted       0.5       0.5         1,1,1-Trichloroethane, ug/L       0.5       0.5         1,1,2-Trichloroethane, ug/L       0.5       0.5         1,1-Dichloroethane, ug/L       0.5       0.5         1,1-Dichloroethane, ug/L       0.5       0.5         1,2-Dichloroethane, ug/L       0.5       0.5         1,2-Dichloroethene (Total), ug/L       0.5       0.5         1,2-Dichloroethene (Total), ug/L       0.5       0.5         1,3-Dichlorobenzene, ug/L       0.5       0.5         1,4-Dichlorobenzene, ug/L       0.5       0.5         2-Chloroethylvinylether, ug/L       0.5       0.5         Bromodichloromethane, ug/L       0.5       0.5         Bromoform, ug/L       0.5       0.5         Chlorobenzene, ug/L       0.5       0.5         Chloroethane, ug/L       0.5       0.5         Chloroform, ug/L       0.5       0.5         Chloroform, ug/L       0.5       0.5	PARAMETER			07-137-6	07-137-7
Dilumenthane ug/L	Date Analy Date Extra 1,1,1-Tric 1,1,2,2-Te 1,1,2-Tric 1,1-Dichlo 1,2-Dichlo 1,2-Dichlo 1,2-Dichlo 1,2-Dichlo 1,3-Dichlo 1,3-Dichlo 1,4-Dichlo 2-Chloroet Bromodichl Bromometha Bromoform, Chlorobenz Carbon Tet Chloroform Chlorometh Dibromoch	601  zed  cted chloroethane, ug/L ctrachloroethane, ug/L chloroethane, ug/L croethane, ug/L croethane, ug/L croethane, ug/L croethane, ug/L crobenzene, ug/L cthylvinylether, ug/L chane, ug/L ctrachloride, ug/L	07.13.89 07.13.89 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	07.13.89	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0



#### **ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

LOG NO: E89-07-137

Received: 11 JUL 89 Reported: 25 JUL 89

Ms. Susan Coleman CH2M HILL 6425 Christie Street, Suite 500 Emeryville, California 94608

Purchase Order: SFO 27289.AO.GW

#### REPORT OF ANALYTICAL RESULTS

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LOG NO SAMPLE DESCRIPTION, GROUND WATER SAMPLES		DA	TE SAMPLED
07-137-5 MW-9 07-137-6 MW-10 07-137-7 MW-11			10 JUL 89 10 JUL 89 10 JUL 89
PARAMETER	07-137-5	07-137-6	07-137-7
Freon 113, ug/L Methylene chloride, ug/L Trichloroethene, ug/L Trichlorofluoromethane, ug/L Tetrachloroethene, ug/L Vinyl chloride, ug/L Cis-1,3-Dichloropropene, ug/L trans-1,3-Dichloropropene, ug/L	<0.5 <0.5 13 <0.5 38 16 <0.5 <0.5	<0.5 <0.5 27 <0.5 42 28 <0.5 <0.5	<1.0 <1.0 160 <1.0 12 16 <1.0 <1.0

Sim D. Lessley, Ph.D., Laboratory Director

## Brown and Caldwell Analytical Laboratories

#### BATCH QC REPORT Definitions and Terms

Accuracy:

The ability of a procedure to determine the "true" concentration of an

analyte.

Batch:

A group of samples analyzed sequentially using the same calibration curve,

reagents, and instrument.

Laboratory Control Standard (LCS):

Laboratory reagent water spiked with known compounds and subjected to the same procedures as the samples. The LCS thus indicates the accuracy of the analytical method and, because it is prepared from a different source than the standard used to calibrate the instrument, it also serves to double-

check the calibration.

LC Result:

Laboratory result of an LCS analysis.

LT Result:

Expected result, or true value, of the LCS analysis.

Matrix QC:

Quality control tests performed on actual client samples. For most inorganic analyses, the laboratory uses a pair of duplicate samples and a spiked sample. For most organic analyses, the laboratory uses a pair of spiked

samples (duplicate spikes).

Percent Recovery:

The percentage of analyte recovered.

For LCS, the percent recovery calculation is

LC ÷ LT x 100.

For spike recoveries, the percent recovery calculation is

(S Bar - Sample Concentration) x 100

Spike Amount

Precision:

The reproducibility of a procedure demonstrated by the agreement between

analyses performed on either duplicates of the same sample or a pair of

duplicate spikes.

R1, R2 Result:

Result of the analysis of replicate aliquots of a sample, with R1 indicating

the first analysis of the sample and R2 its corresponding duplicate; used to

determine precision.

Relative Percent Difference (RPD): Calculated using one of the following:

(R1 - R2) x 100  $(R1 + R2) \div 2$ 

(S1 - S2) x 100  $(S1 + S2) \div 2$ 

S Bar Result:

The average of spike analysis results.

S1, S2 Result:

Result of the analysis of replicate spiked aliquots, with S1 indicating one spike of the sample and S2 the second spike; used to determine precision

and accuracy.

True value:

The theoretical, or expected, result of a spike sample analysis.

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	DATE	ВАТСН	LC	LT		PERCENT
<b>CARAMETER</b>	ANALYZED	NUMBER	RESULT	RESULT	UNIT	RECOVERY
PH-Volatile Hydrocarbons/BTEX			_			100
Dilution Factor	07.14.89	38	1	1	Times	100
_ C4 to C12 Hydrocarbons	07.14.89	38	1140	1110	ug/L	103
PH-Volatile Hydrocarbons/BTEX				_		100
Dilution Factor	07.14.89	38	1	1	Times	100
Benzene	07.14.89	38	101	100	ug/L	101
Ethylbenzene	07.14.89	38	95	100	ug/L	95
Toluene	07.14.89	38	98	100	ug/L	98
Total Xylene Isomers	07.14.89	38	236	200	ug/L	118
C4 to C12 Hydrocarbons	07.14.89	38	1130	1100	ug/L	103
PH-Volatile Hydrocarbons/BTEX				_		
Dilution Factor	07.17.89	39	1	1	Times	100
_ Benzene	07.17.89	39	99	100	ug/L	99
Ethylbenzene	07.17.89	39	91	100	ug/L	91
Toluene	07.17.89	39	96	100	ug/L	96
Total Xylene Isomers	07.17.89	39	230	200	ug/L	115
4 to C12 Hydrocarbons	07.17.89	39	1150	1110	ug/L	104
ra Method 601					4-	
1,1,1-Trichloroethane	07.13.89	250	18	20	ug/L	90
1,1-Dichloroethene	07.13.89	250	20	20	ug/L	100
1,1-Dichloroethane	07.13.89	250	21	20	ug/L	105
1,2-Dichloroethane	07.13.89	250	20	20	ug/L	100
1,2-Dichlorobenzene	07.13.89	250	17	20	ug/L	85
1,2-Dichloroethene (Total)	07.13.89	250	42	40	ug/L	105
1,2-Dichloropropane	07.13.89	250	19	20	ug/L	95
1,3-Dichlorobenzene	07.13.89	250	17	20	ug/L	85
1,4-Dichlorobenzene	07.13.89	250	18	20	ug/L	90
2-Chloroethylvinylether	07.13.89		22	20	ug/L	110
Bromodichloromethane	07.13.89	250	20	20	ug/L	100
Bromomethane	07.13.89	250	21	20	ug/L	105
Bromoform	07.13.89	250	20	20	ug/L	100
Chlorobenzene	07.13.89	250	19	20	ug/L	95
_ Carbon Tetrachloride	07.13.89	250	18	20	ug/L	90
Chloroethane	07.13.89	250	21	20	ug/L	105
Chloroform	07.13.89	250	26	20		130
Chloromethane	07.13.89		12	20	ug/L	60
Dibromochloromethane	07.13.89		20	20	ug/L	100
Freon 113	07.13.89		16	20	ug/L	80
Methylene chloride	07.13.89		21	20	ug/L	105
- Trichloroethene	07.13.89		19	20	ug/L	95 00
Trichlorofluoromethane	07.13.89	250	18	20	ug/L	90

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	DATE	ватсн	LC	LT	· D.T.M	PERCENT
PARAMETER	ANALYZED	NUMBER	RESULT	RESULT	UNIT	RECOVERY 105
Tetrachloroethene	07.13.89	250	21	. 20	ug/L	105
Vinyl chloride	07.13.89	250	23	20	ug/L	100
Nitrate (as N)	07.21.89	47	1.0	1.0	mg/L	
nductivity	07.12.89	60	1030	1000	umhos/c	103
	07.12.89	145	7.0	7.0	Units	100
pH	07.12.89	145	7.0	7.0	Units	100
■lfate	07.19.89	34	20	20	mg/L	100
lfate	07.19.89	34	16	15	mg/L	107
EPA Method 601			- 4		17	70
1,1,1-Trichloroethane	07.13.89	248	14	20	ug/L	110
1,1-Dichloroethene	07.13.89	248	22	20	ug/L	95
1,1-Dichloroethane	07.13.89	248	19	20	ug/L	
1,2-Dichloroethane	07.13.89	248	16	20	ug/L	80
1,2-Dichlorobenzene	07.13.89	248	24	20	ug/L	120
1,2-Dichloroethene (Total)	07.13.89	248	30	40	ug/L	75 75
1,2-Dichloropropane	07.13.89	248	15	20	ug/L	75 115
3-Dichlorobenzene	07.13.89	248	23	20	ug/L	115
1,4-Dichlorobenzene	07.13.89	248	25	20	ug/L	125
2-Chloroethylvinylether	07.13.89	248	20	20	ug/L	100
- Bromodichloromethane	07.13.89	248	25	20	ug/L	125
Bromomethane	07.13.89	248	23	20	ug/L	115
Bromoform	07.13.89	248	23	20	ug/L	115
Chlorobenzene	07.13.89	248	22	20	ug/L	110
Carbon Tetrachloride	07.13.89	248	15	20	ug/L	75
Chloroethane	07.13.89	248	23	20	ug/L	115
Chloroform	07.13.89	248	16	20	ug/L	80
Chloromethane	07.13.89	248	21	20	ug/L	105
Dibromochloromethane	07.13.89	248	22	20	ug/L	110
Freon 113	07.13.89	248	12	20	ug/L	60
Methylene chloride	07.13.89	248	13	20	ug/L	65 70
Trichloroethene	07.13.89	248	14	20	ug/L	70
Trichlorofluoromethane	07.13.89	248	19	20	ug/L	95
Tetrachloroethene	07.13.89	248	21	20	ug/L	105
Vinyl chloride	07.13.89	248	25	20	ug/L	125
PA Method 601						
1,1,1-Trichloroethane	07.13.89	248	13	20	ug/L	65
1,1-Dichloroethene	07.13.89	248	21	20	ug/L	105
1,1-Dichloroethane	07.13.89	248	18	20	ug/L	90
1,2-Dichloroethane	07.13.89	248	17	20	ug/L	85

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	DATE	BATCH	LC	LT		PERCENT
PARAMETER	ANALYZED	NUMBER	RESULT	RESULT	UNIT	RECOVERY
1,2-Dichlorobenzene	07.13.89	248	25	20	ug/L	125
1,2-Dichloroethene (Total)	07.13.89	248	28	40	ug/L	70
1,2-Dichloropropane	07.13.89	248	15	20	ug/L	75
1,3-Dichlorobenzene	07.13.89	248	23	20	ug/L	115
1,4-Dichlorobenzene	07.13.89	248	25	20	ug/L	125
2-Chloroethylvinylether	07.13.89	248	24	20	ug/L	120
■ Bromodichloromethane	07.13.89	248	25	20	ug/L	125
Bromomethane	07.13.89	248	21	20	ug/L	105
Bromoform	07.13.89	248	25	20	ug/L	125
_ Chlorobenzene	07.13.89	248	22	20	ug/L	110
Carbon Tetrachloride	07.13.89	248	15	20	ug/L	75
Chloroethane	07.13.89	248	20	20	ug/L	100
Chloroform	07.13.89	248	16	20	ug/L	80
Chloromethane	07.13.89	248	11	20	ug/L	55
Dibromochloromethane	07.13.89	248	21	20	ug/L	105
Freon 113	07.13.89	248	9.0	20	ug/L	45
■ lethylene chloride	07.13.89	248	12	20	ug/L	60
Trichloroethene	07.13.89	248	13	20	ug/L	65
Trichlorofluoromethane	07.13.89	248	19	20	ug/L	95
Tetrachloroethene	07.13.89	248	22	20	ug/L	110
Vinyl chloride	07.13.89	248	21	20	ug/L	105
chloride	07.18.89	43	10	10	mg/L	100

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PARAMETER

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conductivity

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## MATRIX QC PRECISION (DUPLICATES)

DATE ANALYZED 07.21.89 07.12.89 07.12.89	BATCH NUMBER 47 60 145 145	R1 7.2 920 6.9 7.8	R2 RESULT 7.2 900 6.9 7.9	UNIT mg/L umhos/c Units Units	RELATIVE % DIFF 0 2 0 1 0
07.12.89	34	54	54	mg/L	0
07.18.89	43	25	26	mg/L	4

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## MATRIX QC PRECISION (DUPLICATE SPIKES)

	DATE	ватсн	S1	S2		RELATIVE
MRAMETER	ANALYZED	NUMBER	RESULT	RESULT	UNIT	% DIFF
H-Volatile Hydrocarbons/BTEX			_		m !	^
Dilution Factor	07.14.89	38	1	1	Times	0
_ Benzene	07.14.89	38	3.47	3.51	mg/kg	1
Ethylbenzene	07.14.89	38	3.66	3.57	mg/kg	2
Toluene	07.14.89	38	3.62	3.60	mg/kg	1
Total Xylene Isomers	07.14.89	38	9.24	8.97	mg/kg	3 2
C4 to C12 Hydrocarbons	07.14.89	38	50.5	49.5	mg/kg	2
A Method 601				<b>-</b> -	4-	0.5
1,1,1-Trichloroethane	07.13.89	250	21	7.5	ug/L	95
1,1-Dichloroethene	07.13.89	250	11	12	ug/L	9
1,1-Dichloroethane	07.13.89	250	11	10	ug/L	10
1,2-Dichloroethane	07.13.89	250	11	9.8	ug/L	12
1,2-Dichloroethene (Total)	07.13.89	250	120	110	ug/L	9
1,2-Dichloropropane	07.13.89	250	12	11	ug/L	9
Bromodichloromethane	07.13.89	250	17	16	ug/L	6
Bromoform	07.13.89	250	15	13	ug/L	14
arbon Tetrachloride	07.13.89	250	8.2	8.7	ug/L	6
Chloroform	07.13.89	250	11	12	ug/L	9
Dibromochloromethane	07.13.89	250	17	16	ug/L	6
■ Methylene chloride	07.13.89	250	7.3	8.3	ug/L	13
Trichloroethene	07.13.89	250	170	160	ug/L	6
Tetrachloroethene	07.13.89	250	30	32	ug/L	6
Vinyl chloride	07.13.89	250	25	27	ug/L	8
PA Method 601						
1,1,1-Trichloroethane	07.13.89	248	21	7.5	ug/L	95
1,1-Dichloroethene	07.13.89	248	11	12	ug/L	9
1,1-Dichloroethane	07.13.89	248	11	10	ug/L	10
1,2-Dichloroethane	07.13.89		11	9.8	ug/L	12
1,2-Dichloroethene (Total)	07.13.89		120	110	ug/L	9
1,2-Dichloropropane	07.13.89		12	11	ug/L	9
Bromodichloromethane	07.13.89		17	16	ug/L	6
Bromoform	07.13.89		15	13	ug/L	14
Carbon Tetrachloride	07.13.89		8.2	8.7	ug/L	6
Chloroform	07.13.89		11	12	ug/L	9
Dibromochloromethane	07.13.89		17	16	ug/L	6
	07.13.89		7.3	8.3	ug/L	13
Methylene chloride	07.13.89		170	160	ug/L	6
Trichloroethene	07.13.89		30	32	ug/L	6
Tetrachloroethene	07.13.89		25	27	ug/L	8
Vinyl chloride	07.13.09	270		= •	<u> </u>	

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## MATRIX QC ACCURACY (SPIKES)

<b>-</b>	DATE	BATCH	SBAR RESULT	TRUE VALUE		PERCENT RECOVERY
RAMETER	ANALYZED	NUMBER	KESULI	ANDOR	UNII	ILLOOVEKI.
TH-Volatile Hydrocarbons/BTEX	07 1/ 00	38	1	1	Times	100
Dilution Factor	07.14.89	38	3.49	4.87	mg/kg	72
<b>Be</b> nzene	07.14.89	38	3.615	4.87		74
Ethylbenzene	07.14.89	38	3.61	4.87		74
Toluene	07.14.89	38	9.105	9.74		93
Total Xylene Isomers	07.14.89	38	50	54.1	mg/kg	92
C4 to C12 Hydrocarbons	07.14.89	36	50	24.1	**********	
A Method 601	07 12 00	250	14.25	12	ug/L	119
1,1,1-Trichloroethane	07.13.89	250 250	11.5	13		88
1,1-Dichloroethene	07.13.89		10.5	12	_	88
1,1-Dichloroethane	07.13.89	250 250	10.5	12	_	87
1,2-Dichloroethane	07.13.89		115	100	_	143
1,2-Dichloroethene (Total)	07.13.89	250	11.5	12	_	96
1,2-Dichloropropane	07.13.89	250	16.5	12	_	138
Bromodichloromethane	07.13.89	250	16.5	12		117
_ Bromoform	07.13.89	250	8.45	12	_	70
arbon Tetrachloride	07.13.89	250	11.5	12	_	96
■ Chloroform	07.13.89	250	16.5	12		138
Dibromochloromethane	07.13.89	250	7.8	12	_	65
Methylene chloride	07.13.89	250	165	194	_	26
Trichloroethene	07.13.89	250	31	33	_	93
Tetrachloroethene	07.13.89	250	26	27		95
Vinyl chloride	07.13.89	250		4.1	-	100
trate (as N)	07.21.89	47	4.1	1920	_	
Conductivity	07.12.89	60	1830	74		105
<u>Sulfate</u>	07.19.89	34	75	/-	mg, r	105
PA Method 601		0.10	1/ 25	1 2	ug/L	119
1,1,1-Trichloroethane	07.13.89	248	14.25	12 13		88
1,1-Dichloroethene	07.13.89	248	11.5	12	<del>-</del>	88
1,1-Dichloroethane	07.13.89	248	10.5	12		87
1.2-Dichloroethane	07.13.89	248	10.4		_	143
1,2-Dichloroethene (Total)	07.13.89	248	115	100 12	_	96
1,2-Dichloropropane	07.13.89	248	11.5	12	_	138
Bromodichloromethane	07.13.89	248	16.5			117
Bromoform	07.13.89	248	14	12		70
_ Carbon Tetrachloride	07.13.89	248	8.45	12		96
Chloroform	07.13.89		11.5	12	_	138
Dibromochloromethane	07.13.89		16.5	12	_	65
Methylene chloride	07.13.89		7.8	12	_	26
Trichloroethene	07.13.89	248	165	194	ug/L	20
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### MATRIX QC ACCURACY (SPIKES)

ARAMETER Tetrachloroethene Vinyl chloride Chloride	DATE ANALYZED 07.13.89 07.13.89 07.18.89	BATCH NUMBER 248 248 43	SBAR RESULT 31 26 48	TRUE VALUE 33 27 46	UNIT ug/L ug/L mg/L	PERCENT RECOVERY 93 91
Tetrachloroethene	07.13.89 07.13.89	248 248	31 26	33 27	ug/L ug/L	

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STA. NO.			1	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	BTX-F	HJJ	Method	pH, (und, 504						REMARKS	
MW-6				X	MW-6 /	3	Χ	X							Dednit kno	with late needed 2 VOAS	total
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															VOA'S O	nsite for for vode p	\ <u>\</u>
													-			for BTX = and TAH	
MW8	1/10/84	1730		χ	MW-8 /	2			X						•		
MW9	1/10/81	1810		X	mw-g v	4			X	χ							
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MW-13				X	MW-13 V	2-			<i>X</i>		1						
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Appendix B MANIFESTS

A State Market Downson Market Del Monte Fools US End Generator's Name and Mailing Address Del Monte Fools US End Generator's Name and Mailing Address Del Monte Fools US End Downson Market Goods Del Monte State Generator's Del Generator's	Generator's Name and Mairing Address    1250   Park Avt	UNIFORM HAZARDO	on elite (12-pitch typewriter).  IS 1. Generator's US EPA ID No	). Ma Docu	anifest ment No.	2, P			the shaded
B. State Generator's Discontinuous and Additional Internation  Generator's Phone (4157) 472. Emery ville, A 9468  5. Transporter I Compain Name  S. US EPA ID Number  S. US EPA ID Number  S. Bette Transporter's D  G. State Transporter's D  F. Transporter's D  F. Transporter's D  G. State Transporter's D  F. Transporter's D  G. State Transporter's D  F. Transporter's D  F. Transporter's D  F. Transporter's D  F. Transporter's D  G. State Transporter's D  F. Transporter's D  G. State Transporter's D  F. Transporter's D  F	Generator's Phone (Y15') Y12 - Emily VIIIs (A 9 468 High A) 4968  Transporter I Company Name  6. US EPA ID Number  7. State Transporter's D 9007  Transporter 2 Company Name  8. US EPA ID Number  9. US EPA ID Number  10. US EPA ID Number  11. SEPA ID Number  12. Container's Phone Y S. Container's P				988	X	• 1	•	
B. State Generator's Discontinuous and Additional Internation  Generator's Phone (4157) 472. Emery ville, A 9468  5. Transporter I Compain Name  S. US EPA ID Number  S. US EPA ID Number  S. Bette Transporter's D  G. State Transporter's D  F. Transporter's D  F. Transporter's D  G. State Transporter's D  F. Transporter's D  G. State Transporter's D  F. Transporter's D  F. Transporter's D  F. Transporter's D  F. Transporter's D  G. State Transporter's D  F. Transporter's D  G. State Transporter's D  F. Transporter's D  F	Generator's Phone (Y15') Y12 - Emily VIIIs (A 9 468 High A) 4968  Transporter I Company Name  6. US EPA ID Number  7. State Transporter's D 9007  Transporter 2 Company Name  8. US EPA ID Number  9. US EPA ID Number  10. US EPA ID Number  11. SEPA ID Number  12. Container's Phone Y S. Container's P	<ol> <li>Generator's Name and Mailing Add</li> </ol>	Del Monte Fo	ods, USA		A. 518	te maniteat DOC	860	598
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To: P.O. Box 400, Socramento, CA 95812-0400

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19. Discrepancy Indication Space		

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name Signature

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Month Day Year

Appendix C WINDSHIELD SURVEY

## Appendix C WINDSHIELD SURVEY

A windshield survey was conducted in the vicinity of the southwest corner of Del Monte's Plant No. 35, in Emeryville, California. The addresses of industrial facilities within a one-quarter mile radius of Plant No. 35 were recorded and are presented in Table C-1.

Table C-1 WINDSHIELD SURVEY SOUTHWEST CORNER OF DEL MONTE EMERYVILLE PLANT NO. 35

Name	Map I.D. <u>Number*</u>	Address	Notes
Mac Pherson's	1	1327 Park Avenue	Large warehouse
Integrated Automation	2	1255 Park Avenue Also 4095 Harlan	Large warehouse
ApartmentsBesler Building	3	4053 Harlan Street	
Emeryville Industrial Court	4		
a. Automotive Service Co.	4a	4020 Harlan Street	
b. Sea Bright	4b	4026 Harlan Street	
c. Index Records Management	4c	4040 Harlan Street	
Mazda Service	5		
Easy-European Auto Salvage Yard (653-EASY)	6	No number	
Esmar Distributing	7	1215 Park Street	
For Lease	8	1201 Park Avenue	Offices
Brooks Beco	9	4051 Watts Street	Warehouse
Tractor Trailer, Heavy Machinery,	etc. 10		
For Lease	11	4058-4066 Watts Street 4053-4065 Emery	Large warehouse
Empty lot	12		Rubble, old drum, garbage

<sup>\*</sup>See Figure C-1 for location.

Table C-1 (Continued)

Name	Map I.D. <u>Number*</u>	Address	Notes
Dunlop Tires	13	4062 Emery Street	
For Lease	14	1145 Park Avenue	Empty
Pepsi-Cola Bottling Company	15	1150 Park Avenue	
Texaco Gas Station	16	4000 San Pablo	
Post Office	17		
Commercial Store	18		
AC Transit	19	From San Pablo to Doyle	Bus service, parking, gas pumps, tank leak-not determined during W.S.
Berkeley Farms	20	San Pablo	Tank leaknot determined during W.S.
<ul><li>a. Mitsubishi Engines</li><li>b. Equipment Associates Co., Inc.</li></ul>	21a 21b	1250 45th and Doyle	Closed For lease
	22	1266-1290 45th St.	Industrial offices
a. PG&E Central Warehouse b. Open storage yard	23a 23b	4525 Hollis Street	Shipping Pallets, drums, equipment
PG&E General Construction	24	45th and Hollis	
a. Custom Woodcraft & Plastics	25a	4514 Hollis	Cabinet making
F. Halaby, Inc. b. Beck Electrical Supply	256	4512 Hollis Street	Drums outside

<sup>\*</sup>See Figure C-1 for location.

Table C-1 (Continued)

Name	Map I.D. Number*	Address	Notes
Westvaco Distribution Company	26	5000 Hollis	
General Electric Supply Company	27	Corner of Hollis and 53rd	
Emeryville Research & Development Center	28	4560 Horton Street	Chiron, Cetus, Aquanautics, Espresso
Cetus	29	1400 53rd	
	30		Old and new converted warehouse and offices
P.T. Hutchison Company, Ltd.	31	4525 Horton Street	Started 1960, chemicals, process equipment, coating, formulating
Tulloch Construction	32	Horton Street	Constructing new building
(could be name of company)			building
Sherwin Williams Coatings	33	1450 Sherwin Avenue	Drums, vertical tanks, processing
	34 & 35		Unmarked warehouse type buildings
Charles Lowe Company/Chromex	36	1400 Park Avenue	
Available	37		Large warehouse
Western Brake	38	1461 Park Avenue	

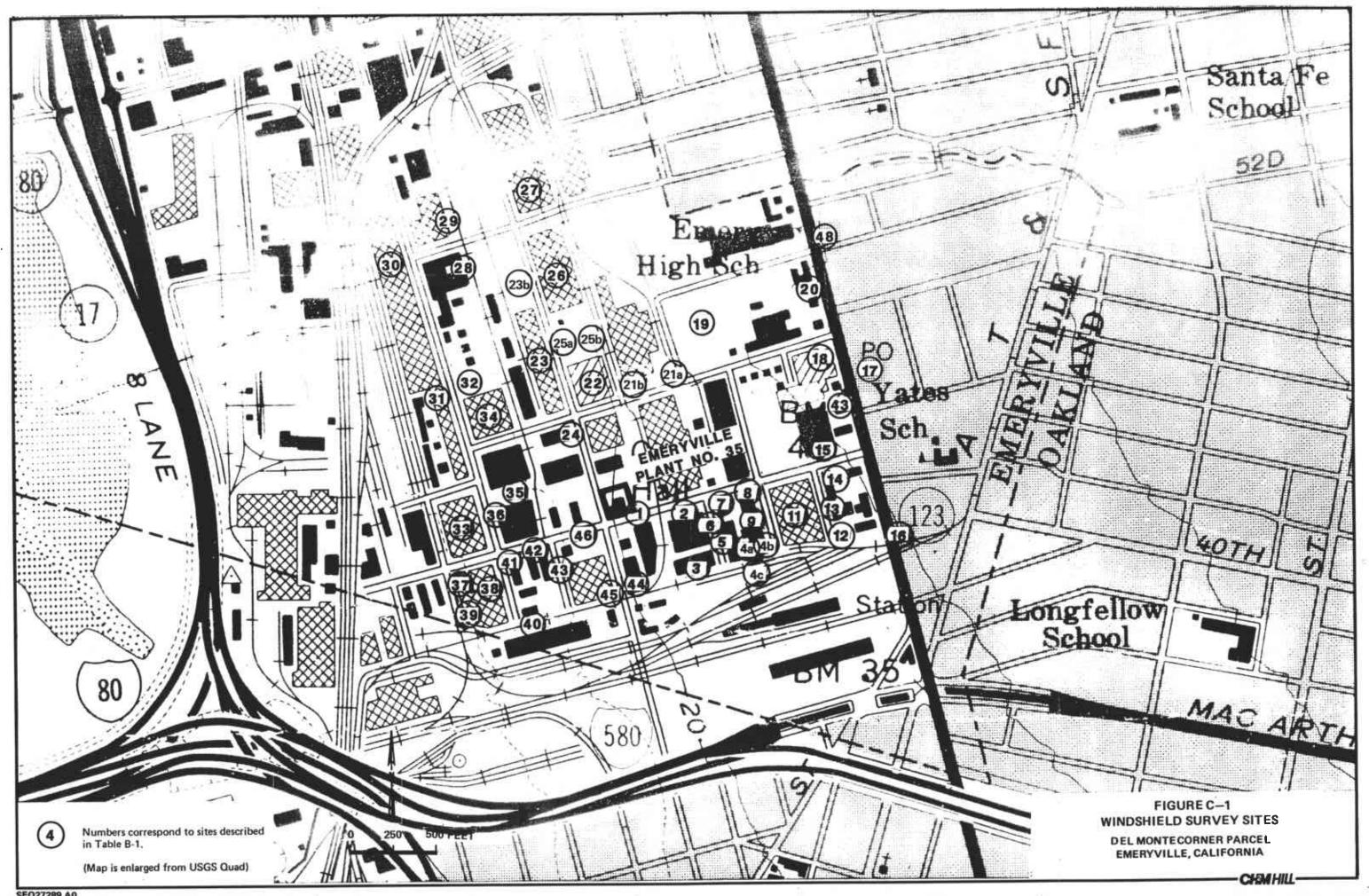
<sup>\*</sup>See Figure C-l for location.

Table C-1 (Continued)

Name	Map I.D. Number*	Address	Notes
Bon Motif Company	39	No number Hubbard	
	40		Old warehouse
Puls Plywood & Lumber Sales	41	4050 Horton	
Electro-Coatings, Inc. Plant 22	42	1421 Park Avenue	Chromium, Lexaualent compounds on public notice on sign
WDCO	43	4064 Holden	
Ransome Comp. Construction Engineers	44	4030 Hollis Street	
Industrial Safety Supply	45	4041 Hollis Street	
Lindco Associates	46	1350 Park Avenue	
Fire Department	47	4431 San Pablo Avenue	Gas pumps
Accurate Manufacturing Company	48	4770 San Pablo	
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<sup>\*</sup>See Figure C-1 for location.

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Appendix D
AGENCY CONTACTS

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U.S. Environmental Protection Agency	
Ms. Ida Toliver Freedom of Information Officer	415/974-8135
Mr. Stan Brown Toxic Substances Division	415/974-8135
State of California Department of Water Resources	
Ms. Betty Swatsenberg Water Well Drillers Reports	916/322-717
San Francisco Regional Water Quality Control Board	
Mr. Lester Feldman Investigation Oversight	415/464-1332
Ms. Lisa McColl Underground Storage Tank Regulation	415/464-1255
Alameda County Flood Control and Water Conservation District	
Mr. J. Killingstad Groundwater Protection Ordinance Application	415/484-2600
East Bay Municipal Utilities District	
Mr. Albert Yip Underground Utilities	415/891-0624
Alameda County Environmental Health	
Mr. Dennis Byrne Underground Storage Tank Removal	415/271-4320

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