



Engineers
Planners
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92-037-02 (11/11/92)

October 23, 1992

SFO28830.BB.T6

Mr. Brian Oliva
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Closure of former 3,500-gallon underground gasoline tank located at Del Monte Plant 35 - East Parcel, 1250 Park Avenue, Emeryville, California

Dear Mr. Oliva:

This letter requests closure from the Alameda County Health Agency (ACHA) of the former 3,500-gallon underground gasoline tank located at Del Monte Plant 35 - East Parcel at 1250 Park Avenue in Emeryville, California (Figure 1). The 3,500-gallon tank was removed from the Del Monte box yard near 45th Street in January 1986.

Del Monte Plant 35 is located in an industrial area of Emeryville. Groundwater beneath Plant 35 exists at about 5 to 10 feet below grade and flows in a westerly direction.

Soil samples collected in January 1986 from the tank excavation during removal of the 3,500-gallon tank contained 10 mg/kg total petroleum hydrocarbons (TPH), 0.06 mg/kg benzene, 0.26 mg/kg toluene, and 0.35 mg/kg xylenes. According to the State of California Leaking Underground Fuel Tank (LUFT) Manual (October 1989) Leaching Potential Analysis, for soil and groundwater conditions encountered in the vicinity of Plant 35, the maximum allowable TPH as gasoline concentration in soil is 10 mg/kg; according to the LUFT manual, benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations in soil are not applicable when TPH as gasoline does not exceed 10 mg/kg.

Monitoring well MW-4 is located northwesterly of the former 3,500-gallon tank (Figure 1). Monitoring well MW-4 was installed in December 1988 as part of a property assessment (CH2M HILL, June 1986) and is used to monitor groundwater quality in the vicinity of the former 3,500-gallon gasoline tank. Monitoring well MW-4 was sampled

Mr. Brian Oliva
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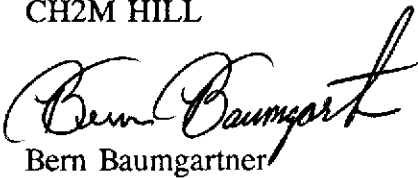
for petroleum hydrocarbon compounds on December 21, 1988 and October 12, 1992. The analytical results of these two sampling events are presented on Table 1. As indicated in Table 1, no TPH as gasoline or BTEX has been detected in MW-4.

The soil quality data collected from the tank excavation is within the LUFT Manual allowable soil levels for gasoline compounds. Also, TPH as gasoline and BTEX have not been detected in monitoring well MW-4 over a four year period. Based on this, Del Monte requests closure of the former 3,500-gallon gasoline tank location.

Del Monte and CH2M HILL appreciate your assistance with the Plant 35 activities and look forward to closure of the former 3,500-gallon gasoline tank located on the East Parcel. If you have any questions or comments, please call me at (510) 251 - 2888 (ext. 2118).

Sincerely,

CH2M HILL



Bern Baumgartner
Project Manager

beb/

cc: Mr. Richard Hiett/Regional Water Quality Control Board
Mr. Ron Thibault/Del Monte
Mr. Lee Bosche/Del Monte
Mr. Steve Ronzone/Del Monte
Mr. Bharat Shah/Del Monte
Mr. Mark Rosenquist/Del Monte
Mr. Jeff Holloway/CH2M HILL

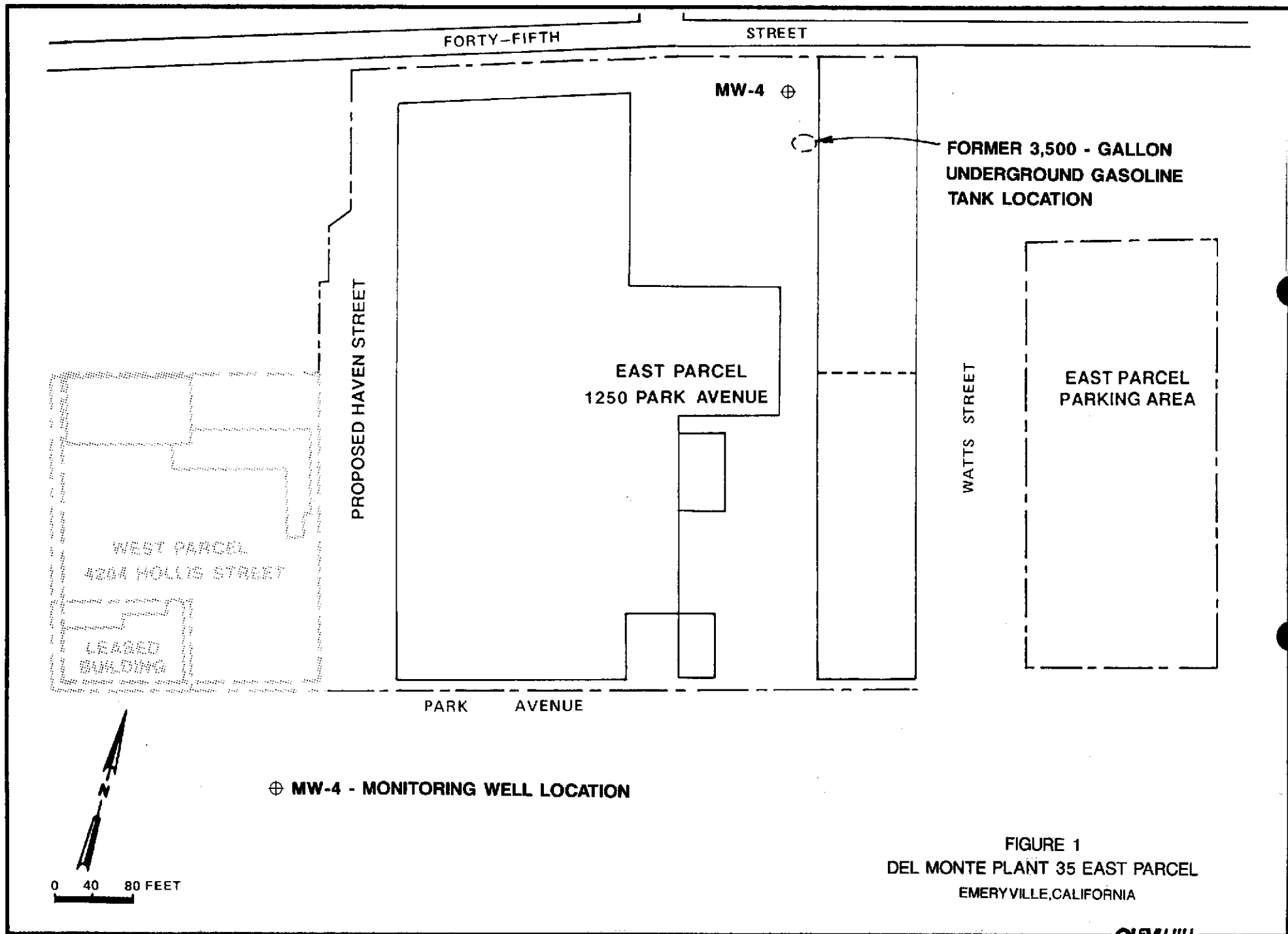


FIGURE 1
 DEL MONTE PLANT 35 EAST PARCEL
 EMERYVILLE, CALIFORNIA

TABLE 1
MONITORING WELL MW-4
DEL MONTE PLANT 35
EMERYVILLE, CA

DATE	Groundwater Concentration ($\mu\text{g/l}$)					
	TPH-GAS	TPH-DIESEL	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
12/21/88	< 1,000	< 50	< 5	< 5	NA	< 5
10/12/92	< 50	NA	< 0.5	< 0.5	< 0.5	< 0.5

NA - Not Analyzed

< 0.5 - less than detection limit of 0.5 $\mu\text{g/l}$

1255 Powell Street
Emeryville, CA 94608
510/428-2300
Fax: 510/547-3643

LOG NO: E92-10-216

Received: 12 OCT 92

Mailed: OCT 19 1992

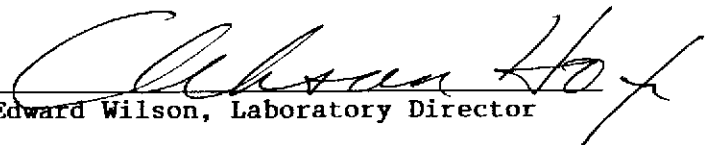
Mr. B. Baumgartner
CH2M Hill
1111 Broadway, Suite 1200
Oakland, California 94607-4046

Project: SF028830.BB.T6

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
10-216-1	MW-4	12 OCT 92
PARAMETER		10-216-1
Aromatic Hydrocarbons		
Date Analyzed		10.13.92
Dilution Factor, Times		1
Benzene, ug/L		<0.5
Ethylbenzene, ug/L		<0.5
Toluene, ug/L		<0.5
Total Xylene Isomers, ug/L		<0.5
TPH - Volatile Hydrocarbons		
Date Analyzed		10.13.92
Dilution Factor, Times		1
C6 to C14 (as gasoline), ug/L		<50
Approximate Character, .		NO PATTERN


Edward Wilson, Laboratory Director

BATCH QC REPORT: Definitions and Terms



Accuracy	The ability of a procedure to determine the "true" concentration of an analyte
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
Batch	A group of samples prepared together using the same reagents and equipment, and/or 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.
Matrix QC	Quality control tests performed on actual client samples. For most analyses, the laboratory uses a pair of spiked samples (duplicate spikes). The laboratory may also use a pair of duplicate samples and a spiked sample.
LC Result	Laboratory result of an LCS analysis
LT Result	Expected result, or true value, of the LCS analysis
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
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.
R Bar Result	The average of replicate analysis results
S Bar Result	The average of spike analysis results
True value	The theoretical, or expected, result of a spike sample analysis. Calculated using one of the following: $\frac{\text{Sample Concentration} + \text{Spike Amount}}{2} \quad \text{R Bar} + \text{Spike Amount}$
Percent Recovery	The percentage of analyte recovered. For LCS, the percent recovery calculation is: $LC \div LT \times 100$ For spike recoveries, the percent recovery calculation is: $\frac{(\text{S Bar} - \text{Sample Concentration}) \times 100}{\text{Spike Amount}}$
Relative Percent Difference (RPD)	Calculated using one of the following: $\frac{(R1 - R2) \times 100}{(R1 + R2) \div 2} \quad \frac{(S1 - S2) \times 100}{(S1 + S2) \div 2}$
Blank Result	The result of the analysis of a method blank, which is reagent water that is analyzed using the same reagents, instruments and procedures as the samples in a batch; used to determine laboratory contamination
Reporting Detection Limit (RDL)	BCA-assigned limit based on, but not the same as, method detection limits (MDLs) determined using EPA guidelines <i>B C Analytical</i>

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE....	METHOD.....	EQUIP.	BATCH	ID.NO
			ANALYZED				
9210216*1	MW-4	TPHG,BTEX	10.13.92	5030/8020	516-19	92269	8302
		TPHG.5030	10.13.92	5030/8015	516-19	92269	8302

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.
ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9210216

DATE REPORTED : 10/19/92

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LABORATORY CONTROL STANDARDS

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
Aromatic Hydrocarbons						
Benzene	10.13.92	92269	17.7	20.0	ug/L	89
Ethylbenzene	10.13.92	92269	17.0	20.0	ug/L	85
Toluene	10.13.92	92269	17.7	20.0	ug/L	89
Total Xylene Isomers	10.13.92	92269	54.4	60.0	ug/L	91
TPH - Volatile Hydrocarbons						
C6 to C14 (as gasoline)	10.13.92	92269	253	222	ug/L	114

BC ANALYTICAL

BATCH QC REPORT
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MATRIX QC PRECISION (DUPLICATE SPIKES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	S1 RESULT	S2 RESULT	UNIT	RELATIVE ZDIFF
Aromatic Hydrocarbons						
Benzene	10.13.92	92269	18.2	17.6	ug/L	3
Ethylbenzene	10.13.92	92269	17.5	17.0	ug/L	3
Toluene	10.13.92	92269	18.2	17.7	ug/L	3
Total Xylene Isomers	10.13.92	92269	55.8	54.3	ug/L	3
TPH - Volatile Hydrocarbons						
C6 to C14 (as gasoline)	10.13.92	92269	267	259	ug/L	3

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9210216

DATE REPORTED : 10/19/92

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MATRIX QC ACCURACY (SPIKES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	SBAR RESULT	TRUE RESULT	RBAR RESULT	PERCENT UNIT RECOVERY
Aromatic Hydrocarbons						
Benzene	10.13.92	92269	17.9	20.0	<0.5	ug/L 90
Ethylbenzene	10.13.92	92269	17.25	20.0	<0.5	ug/L 86
Toluene	10.13.92	92269	17.95	20.0	<0.5	ug/L 90
Total Xylene Isomers	10.13.92	92269	55.05	60.0	<0.5	ug/L 92
TPH - Volatile Hydrocarbons						
C6 to C14 (as gasoline)	10.13.92	92269	263	222	<50	ug/L 118

BC ANALYTICAL

BATCH QC REPORT

ORDER: E9210216

DATE REPORTED : 10/19/92

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METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
Aromatic Hydrocarbons						
Date Analyzed	10.13.92	92269	0.13.92	NA	Date	5030/8020
Benzene	10.13.92	92269	0	0.5	ug/L	5030/8020
Ethylbenzene	10.13.92	92269	0	0.5	ug/L	5030/8020
Toluene	10.13.92	92269	0.10	0.5	ug/L	5030/8020
Total Xylene Isomers	10.13.92	92269	0	0.5	ug/L	5030/8020
TPH - Volatile Hydrocarbons						
Date Analyzed	10.13.92	92269	0.13.92	NA	Date	5030/8015
C6 to C14 (as gasoline)	10.13.92	92269	0	50	ug/L	5030/8015

CHAIN OF CUSTODY RECORD

BCA Log Number 9210216

Client name CH2M HILL/B. BAUMGARTNER
 Address 1111 Rockaway
 City, State, Zip OAKLAND CA
 Project or PO# SP28830.BB.T6
 Phone # 251-2888
 Report attention B. BAUMGARTNER

ATP-407EX (EJSM)

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by	Sample description	Number of containers	Analyses required					Remarks
	<u>10/2/92</u>		<u>GW</u>	<u>BAUMGARTNER</u>	<u>MW-4</u>	<u>3</u>						

Signature		Print Name	Company	Date	Time
Relinquished by <u>Baumgartner</u>		<u>B. BAUMGARTNER</u>	<u>CH2M-HILL</u>	<u>10/2/92</u>	<u>1430</u>
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory <u>Bonny Baldwin</u>	<u>Bonny Baldwin</u>	<u>BONNY BALDWIN</u>	<u>BCA</u>	<u>10/12/92</u>	<u>11:30</u>

C ANALYTICAL
 255 Powell Street, Emeryville, CA 94608 (510) 428-2300
 801 Western Avenue, Glendale, CA 91201 (818) 247-5737
 1200 Gene Autry Way, Anaheim, CA 92805 (714) 978-0113

Note: 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's expense.
 Disposal arrangements: _____

*KEY: WW—Wastewater SU—Surface Water SO—Soil
 SL—Sludge PE—Petroleum OT—Other
 NA—Nonaqueous GW—Groundwater AQ—Aqueous