

90 DEC 37 AM 10:43

Del Monte Foods, USA
One Market Plaza
P.O. Box 3575, San Francisco, CA 94119
Telephone: (415) 442-4000

December 17, 1990

Mr. Dennis Byrne
Hazardous Materials Specialist
Alameda County Health Agency
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

Dear Mr. Byrne:

The enclosed contents are for your review, consideration, and use.

Very truly yours,



Ron Thibault
Director, General Engineering

RT:jp

Encl.

cc: Wilbur C. Sprague

env35



December 4, 1990

SFO28830.A1

Mr. Wilbur Sprague
Associated Services
2128 Tice Creek Drive #3
Walnut Creek, CA 94595

Subject: Quarterly monitoring data for Del Monte's Plant 35; West Parcel, removed gasoline tank site at 4204 Hollis Street, Emeryville, California

Dear Wilbur:

The quarterly monitoring data for the removed gasoline tank (monitoring Well MW7), at the Del Monte Plant No. 35; West Parcel in Emeryville, California are summarized in the attached table. The laboratory data sheets are also attached. This data needs to be submitted to the following:

Mr. Dennis Byrne
Hazardous Materials Specialist
Alameda County Health Agency
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

Mr. Lester Feldman
Regional Water Quality Control Board
San Francisco Region
1800 Harrison, 7th Floor
Oakland, CA 94612

Well MW7 is downgradient from the removed gasoline tank near the proposed Haven Street location. Results of the groundwater monitoring program at Well MW7 show that benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbon as gasoline (TPH-gas) concentrations have increased slightly since last quarter, especially TPH-gas (0.21 mg/l to 0.64 mg/l). According to the water quality goals promulgated by the Regional Water Quality Control Board

(RWQCB), ethylbenzene, toluene, and xylene concentrations in Well MW7 meet the California's Primary Drinking Water Standards, Maximum Contaminant Levels (MCL)(See Table). No MCLs have been established for TPH-gas in groundwater. The concentration of benzene in Well MW-7 exceeds the MCL.

Based on the October 17, 1990 sampling results, continued groundwater monitoring of Well MW-7 is required until the groundwater quality complies with established regulatory criteria. Site closure will be implemented once continued regulatory compliance of the groundwater quality has been demonstrated.

If you have any questions, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Holloway". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Jeff Holloway
Project Manager

Enclosures

cc: Vijay Rode/Del Monte
Bill Riker/Del Monte
Liz Dodge/CH2M HILL

DEL MONTE PLANT NO. 35
4204 HOLLIS STREET, EMERYVILLE, CA
QUARTERLY GROUNDWATER MONITORING RESULTS
(Removed Gasoline Tank)

Concentration (mg/l)

Monitoring Well	Sampling Date	TPH Gasoline	Benzene	Ethyl-benzene	Toluene	Xylene
MW7	12-May-89	1.000	0.0490	0.0045	0.0016	0.0059
MW7	10-Jul-89	0.500	0.0052	<0.0003	0.0006	0.0056
MW7	24-Oct-89	1.800	0.0081	<0.0003	<0.0003	0.0120
MW7	07-Feb-90	1.300	0.0100	0.0039	0.0010	0.0130
MW7	10-Jul-90	0.210	0.0006	<0.0003	0.0003	0.0010
MW7	17-Oct-90	0.640	0.0020	0.0030	0.0010	0.0014
WATER QUALITY STANDARDS						
	Cancer Risk	--	0.00066	--	--	--
	Primary MCL	--	0.001	0.68	2.0	1.75
	AATC (Freshwater)	--	5.3	32.0	17.0	--

Analytical Report

LOG NO: E90-10-428

Received: 17 OCT 90

Reported: 23 OCT 90

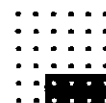
Mr. Jeff Holloway
CH2M Hill
6425 Christie Street, Suite 500
Emeryville, California 94608

Project: SF028830.A1

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
10-428-1	Del Monte 35 MW-7	17 OCT 90
PARAMETER	10-428-1	
TPH-Volatile Hydrocarbons/BTEX		
Date Analyzed	10.20.90	
Dilution Factor, Times	2	
Benzene, ug/L	2	
Ethylbenzene, ug/L	3	
Toluene, ug/L	1	
Total Xylene Isomers, ug/L	14	
C4 to C12 Hydrocarbons, ug/L	640	
Other TPH-Volatile Hydrocarbons/BTEX	---	



BATCH QC REPORT: Definitions and Terms



BCA

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 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 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)
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
Percent Recovery	The percentage of analyte recovered. For LCS, the percent recovery calculation is: $LC + LT \times 100$ For spike recoveries, the percent recovery calculation is: $\frac{(S \text{ Bar} - \text{Sample Concentration})}{\text{Spike Amount}} \times 100$
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 analysed 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

ORDER PLACED FOR CLIENT: CH2M Hill 9010428 :
BC ANALYTICAL : EMVL LAB : 09:33:32 24 OCT 1990 - P. 1 :
=====

MPLES...	SAMPLE DESCRIPTION..	DETERM CODE....	DATE....	METHOD.....	EQUIP.	BATCH	ID.NO
			ANALYZED				
10428*1	Del Monte 35 MW-7	GAS.5030.BTEX	10.20.90	5030/8015	516-19	270	7258
10428*2	Del Monte 35 MW-8	VH.601	10.19.90	601	516-12	717	7504
10428*3	Del Monte 35 MW-9	VH.601	10.19.90	601	516-12	717	7504
10428*4	Del Monte 35 MW-10	VH.601	10.19.90	601	516-12	717	7504
10428*5	Del Monte 35 MW-11	VH.601	10.19.90	601	516-12	717	7504

*:

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: E9010428

E REPORTED : 10/24/90

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)

AMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT
[-Volatile Hydrocarbons/BTEX					
Date Analyzed	10.20.90	270	0.20.90	NA	Date
Dilution Factor	10.20.90	270	1	NA	Times
Benzene	10.20.90	270	0	0.5	mg/L
Ethylbenzene	10.20.90	270	0	0.5	mg/L
Toluene	10.20.90	270	0	0.5	mg/L
Total Xylene Isomers	10.20.90	270	0.34	0.5	mg/L
C4 to C12 Hydrocarbons	10.20.90	270	2.6	50	mg/L
[ocarbons (EPA 601)					
Date Analyzed	10.19.90	717	0.19.90	NA	Date
Dilution Factor	10.19.90	717	1	NA	Times
1,1,1-Trichloroethane	10.19.90	717	0	0.5	mg/L
1,1,2,2-Tetrachloroethane	10.19.90	717	0	0.5	mg/L
1,1,2-Trichloroethane	10.19.90	717	0	0.5	mg/L
1,1-Dichloroethane	10.19.90	717	0	0.5	mg/L
1,1-Dichloroethene	10.19.90	717	0	0.5	mg/L
1,2-Dichloroethane	10.19.90	717	0	0.5	mg/L
1,2-Dichlorobenzene	10.19.90	717	0	0.5	mg/L
1,2-Dichloroethene (Total)	10.19.90	717	0	0.5	mg/L
1,2-Dichloropropane	10.19.90	717	0	0.5	mg/L
1,3-Dichlorobenzene	10.19.90	717	0	0.5	mg/L
1,4-Dichlorobenzene	10.19.90	717	0	0.5	mg/L
2-Chloroethylvinylether	10.19.90	717	0	0.5	mg/L
Bromodichloromethane	10.19.90	717	0	0.5	mg/L
Bromomethane	10.19.90	717	0	0.5	mg/L
Bromoform	10.19.90	717	0	0.5	mg/L
Chlorobenzene	10.19.90	717	0	0.5	mg/L
Carbon Tetrachloride	10.19.90	717	0	0.5	mg/L
Chloroethane	10.19.90	717	0	0.5	mg/L
Chloroform	10.19.90	717	0	0.5	mg/L
Chloromethane	10.19.90	717	0	0.5	mg/L
Dibromochloromethane	10.19.90	717	0	0.5	mg/L
Dichlorodifluoromethane	10.19.90	717	0	0.5	mg/L
Freon 113	10.19.90	717	0	0.5	mg/L
Methylene chloride	10.19.90	717	0	0.5	mg/L
Trichloroethene	10.19.90	717	0	0.5	mg/L
Trichlorofluoromethane	10.19.90	717	0	0.5	mg/L
Tetrachloroethene	10.19.90	717	0	0.5	mg/L
Vinyl chloride	10.19.90	717	0	0.5	mg/L

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9010428

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TE REPORTED : 10/24/90

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT
cis-1,2-Dichloroethene	10.19.90	717	0	0.5	mg/L
cis-1,3-Dichloropropene	10.19.90	717	0	0.5	mg/L
trans-1,2-Dichloroethene	10.19.90	717	0	0.5	mg/L
trans-1,3-Dichloropropene	10.19.90	717	0	0.5	mg/L

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9010428

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TE REPORTED : 10/24/90

LABORATORY CONTROL STANDARDS

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
H-Volatile Hydrocarbons/BTEX						
Dilution Factor	10.20.90	270	1	1	Times	100
Benzene	10.20.90	270	22	25	ug/L	88
Ethylbenzene	10.20.90	270	24	25	ug/L	96
Toluene	10.20.90	270	24	25	ug/L	96
Total Xylene Isomers	10.20.90	270	52	25	ug/L	208
C4 to C12 Hydrocarbons	10.20.90	270	400	470	ug/L	85
Chlorocarbons (EPA 601)						
Dilution Factor	10.19.90	717	1	1	Times	100
1,1,1-Trichloroethane	10.19.90	717	25	20	ug/L	125
1,1,2,2-Tetrachloroethane	10.19.90	717	27	20	ug/L	135
1,1,2-Trichloroethane	10.19.90	717	23	20	ug/L	115
1,1-Dichloroethane	10.19.90	717	29	20	ug/L	145
1,1-Dichloroethene	10.19.90	717	12	20	ug/L	60
1,2-Dichloroethane	10.19.90	717	24	20	ug/L	120
1,2-Dichlorobenzene	10.19.90	717	19	20	ug/L	95
1,2-Dichloroethene (Total)	10.19.90	717	52	40	ug/L	130
1,2-Dichloropropane	10.19.90	717	25	20	ug/L	125
1,3-Dichlorobenzene	10.19.90	717	23	20	ug/L	115
1,4-Dichlorobenzene	10.19.90	717	25	20	ug/L	125
2-Chloroethylvinylether	10.19.90	717	22	20	ug/L	110
Bromodichloromethane	10.19.90	717	25	20	ug/L	125
Bromomethane	10.19.90	717	14	20	ug/L	70
Bromoform	10.19.90	717	24	20	ug/L	120
Chlorobenzene	10.19.90	717	20	20	ug/L	100
Carbon Tetrachloride	10.19.90	717	23	20	ug/L	115
Chloroethane	10.19.90	717	20	20	ug/L	100
Chloroform	10.19.90	717	24	20	ug/L	120
Chloromethane	10.19.90	717	19	20	ug/L	95
Dibromochloromethane	10.19.90	717	23	20	ug/L	115
Dichlorodifluoromethane	10.19.90	717	14	20	ug/L	70
Freon 113	10.19.90	717	12	20	ug/L	60
Methylene chloride	10.19.90	717	11	20	ug/L	55
Trichloroethene	10.19.90	717	21	20	ug/L	105
Trichlorofluoromethane	10.19.90	717	19	20	ug/L	95
Tetrachloroethene	10.19.90	717	22	20	ug/L	110
Vinyl chloride	10.19.90	717	23	20	ug/L	115
cis-1,2-Dichloroethene	10.19.90	717	23	20	ug/L	115
cis-1,3-Dichloropropene	10.19.90	717	36	32	ug/L	113

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9010428

DATE REPORTED : 10/24/90

LABORATORY CONTROL STANDARDS

PARAMETER	DATE	BATCH	LC	LT	UNIT	PERCENT
	ANALYZED	NUMBER	RESULT	RESULT		RECOVERY
trans-1,2-Dichloroethene	10.19.90	717	29	20	ug/L	145
trans-1,3-Dichloropropene	10.19.90	717	8.9	8.0	ug/L	111

BC ANALYTICAL

BATCH QC REPORT
 ORDER: E9010428

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DATE REPORTED : 10/24/90

MATRIX QC ACCURACY (SPIKES)

PARAMETER	DATE	BATCH	SBAR	TRUE	RBAR	PERCENT	
	ANALYZED	NUMBER	RESULT	RESULT	RESULT	UNIT	RECOVERY
i-Volatile Hydrocarbons/BTEX	10.20.90	270	44	52	2	ug/L	84
Benzene	10.20.90	270	54	53	3	ug/L	102
Ethylbenzene	10.20.90	270	48.5	51	1	ug/L	95
Toluene	10.20.90	270	120	110	14	ug/L	110
Total Xylene Isomers	10.20.90	270	1250	1600	640	ug/L	64

BC ANALYTICAL

BATCH QC REPORT
 ORDER: E9010428

Page 1

DATE REPORTED : 10/24/90

MATRIX QC PRECISION (DUPLICATE SPIKES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	S1 RESULT	S2 RESULT	UNIT	RELATIVE %DIFF
n-Volatile Hydrocarbons/BTEX	10.20.90	270	2	2	Times	0
Dilution Factor	10.20.90	270	44	44	ug/L	0
Benzene	10.20.90	270	54	54	ug/L	0
Ethylbenzene	10.20.90	270	49	48	ug/L	2
Toluene	10.20.90	270	120	120	ug/L	0
Total Xylene Isomers	10.20.90	270	1300	1200	ug/L	8
C4 to C12 Hydrocarbons	10.20.90	270				

CHM HILL CHAIN OF CUSTODY RECORD

Log # 9010 428

PROJECT NUMBER: SFO28830, A PROJECT NAME: DEL MONTE PLANT 35
 CLIENT NAME: DEL MONTE
 REPORT TO: JEFF HOLLOWAY COPY TO: JEFF HOLLOWAY
 REQUESTED COMPLETION DATE: 10/31/90 LABORATORY: B.C. ANALYTICAL

NUMBER OF CONTAINERS	ANALYSES REQUESTED									
	TPH	GAS	BTEX	DIKs						
3	X									
3		X								
3			X							
3				X						
3					X					

FOR LAB USE ONLY

LAB # _____
 PROJ # _____
 ACK _____ VERIFIED _____
 DATE INVOICED _____
 NO. OF SAMPLES _____ pg _____ of _____
 DISPOSITION: D R _____ DATE _____

REMARKS _____

STA NO	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION
1	10/17	8900	X	X	DEL MONTE 35 MW-7 -1
2	10/17	1020	X	X	DEL MONTE 35 MW-9 -3
3	10/17	1110	X	X	DEL MONTE 35 MW-11 -5
4	10/17	1135	X	X	DEL MONTE 35 MW-8 -2
5	10/17	1215	X	X	DEL MONTE 35 MW-10 -4

SAMPLED BY AND TITLE (SIGNATURE) 1 John McHugh / HYDROLOGIST	DATE/TIME 10/17/90 13:00	RELINQUISHED BY (SIGNATURE) 2 John McHugh	DATE/TIME 10/17/90 1300	RECEIVED BY: (SIGNATURE) 3	DATE/TIME
RELINQUISHED BY: (SIGNATURE) 4	DATE/TIME	RECEIVED BY: (SIGNATURE) 5	DATE/TIME	RELINQUISHED BY: (SIGNATURE) 6	DATE/TIME 10/17/90 1300

REMARKS _____

SAMPLING PROGRAM: SDWA NPDES RCRA OTHER _____ (SPECIFY)

SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER _____

AIR-BUS BILL NUMBER _____



December 4, 1990

SFO28830.A1

Mr. Wilbur Sprague
Associated Services
2128 Tice Creek Drive #3
Walnut Creek, CA 94595

Subject: Quarterly monitoring data for Del Monte's Plant 35; West Parcel, removed fuel tanks area at 4202 Hollis Street, Emeryville, California

Dear Wilbur:

The quarterly monitoring data for the removed fuel tanks area (monitoring Wells MW8 through MW11) at the Del Monte Plant No. 35; West Parcel in Emeryville, California are summarized in the attached table. This table is prepared to correspond with the quarterly monitoring reports previously submitted to the Alameda County Health Agency (ACHA). The laboratory data sheets are also attached. This data needs to be submitted to the following:

Mr. Dennis Byrne
Hazardous Materials Specialist
Alameda County Health Agency
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

Mr. Lester Feldman
Regional Water Quality Control Board
San Francisco Region
1800 Harrison, 7th Floor
Oakland, CA 94612

Results of the groundwater monitoring program at the removed fuel tank site show that chlorinated organic compound concentrations in Well MW8 have either increased slightly or remain unchanged, with the exception of tetrachloroethene (PCE) and vinyl chloride (VC) which have decreased slightly. Well MW8 is adjacent and downgradient of the removed fuel oil tanks. Concentrations in Wells MW9

(upgradient), MW10 and MW11 (downgradient) generally show the same trend as seen in Well MW8 since the July 10, 1990 sampling.

According to the water quality goals promulgated by the RWQCB, concentrations of TCE and PCE in Wells MW8 through MW11 and VC in Wells MW8 and MW11 exceed California's Primary Drinking Water Standards Maximum Contaminant Levels (MCL). Based on these regulatory criteria, additional monitoring is required at the removed fuel tanks site.

If you have any questions, please call.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jeff Holloway".

Jeff Holloway
Project Manager

Enclosures

cc: Vijay Rode/Del Monte
Bill Riker/Del Monte
Liz Dodge/CH2M HILL

DEL MONTE PLANT NO. 35
4204 HOLLIS STREET, EMERYVILLE, CA
QUARTERLY GROUNDWATER MONITORING RESULTS
(Removed Fuel Oil Tanks Site)

Monitoring Well	Sampling Date	Concentration (mg/l)						
		1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW8	12-May-89	0.29	<0.0100	<0.0100	1.400	0.020	0.0780	<0.0100
MW8	10-Jul-89	0.14	<0.0025	<0.0025	0.330	0.014	0.0170	<0.0025
MW8-dup	10-Jul-89	0.13	<0.0025	<0.0025	0.310	0.012	0.0160	<0.0025
MW8	24-Oct-89	0.10	<0.0020	<0.0020	0.330	0.024	0.0040	<0.0020
MW8	07-Feb-90	0.10	<0.0020	<0.0020	0.520	0.018	0.0120	<0.0020
MW8	10-Jul-90	0.005	<0.0002	<0.0005	0.091	0.036	0.003	<0.0005
MW8	17-Oct-90	0.059	<0.0010	<0.0010	0.160	0.021	0.002	<0.0010
MW9	10-Jul-89	0.0630	<0.0005	<0.0005	0.013	0.038	0.0160	<0.0005
MW9	24-Oct-89	0.0064	<0.0005	<0.0005	0.029	0.048	0.0230	<0.0005
MW9	07-Feb-90	0.0550	<0.0005	<0.0005	0.015	0.030	0.0071	<0.0005
MW9	10-Jul-90	0.0030	<0.0002	<0.0005	0.009	0.043	0.0100	<0.0005
MW9	17-Oct-90	0.0700	<0.0005	<0.0005	0.014	0.032	0.0046	<0.0005
MW10	10-Jul-89	0.0850	0.0008	<0.0005	0.027	0.042	0.0280	<0.0005
MW10	24-Oct-89	0.1048	<0.0005	<0.0005	0.037	0.028	0.0069	<0.0005
WATER QUALITY STANDARDS								
Primary MC	---	0.006	0.0005	0.005	0.005	0.0005	---	---
Cancer Risk	---	0.000033	0.00094	0.0027	0.0008	0.002	---	---
AATC (Freshwater)	23.2	11.6	118	45	5.28	---	23	
a total 1,2-Dichloroethene*			d Trichloroethene			f Vinyl chloride		
b 1,1-Dichloroethene			e Tetrachloroethene			g 1,2-Dichloropropane		
c 1,2-Dichloroethane			* Sum of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene					

DEL MONTE PLANT NO. 35
4204 HOLLIS STREET, EMERYVILLE, CA
QUARTERLY GROUNDWATER MONITORING RESULTS
(Removed Fuel Oil Tanks Site)

Monitoring Well	Sampling Date	Concentration (mg/l)						
		1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW10	07-Feb-90	0.0500	<0.0005	<0.0005	0.011	0.008	0.0053	<0.0005
MW10	10-Jul-90	0.0090	<0.0002	<0.0005	0.030	0.076	0.054	<0.0005
MW10-dup	10-Jul-90	0.01	0.005	<0.0005	0.028	0.069	0.017	<0.0005
MW10	17-Oct-90	0.140	<0.0005	<0.0005	0.035	0.037	0.013	<0.0005
MW11	10-Jul-89	0.073	<0.0010	0.0040	0.160	0.012	0.0160	0.0057
MW11	24-Oct-89	0.188	<0.0020	0.0100	0.410	0.015	0.0220	0.0200
MW11	07-Feb-90	0.105	<0.0020	0.0020	0.270	0.008	0.0110	0.0130
MW11	10-Jul-90	0.004	<0.0002	0.0230	0.046	0.018	0.0150	<0.0005
MW11	17-Oct-90	0.150	<0.0020	0.0110	0.300	0.008	<0.002	0.0310
WATER QUALITY STANDARDS								
Primary MC	---	0.006	0.0005	0.005	0.005	0.0005	0.0005	---
Cancer Risk	---	0.000033	0.00094	0.0027	0.0008	0.002	---	---
AATC (Freshwater)	23.2	11.6	118	45	5.28	---	23	
a total 1,2-Dichloroethene*			d Trichloroethene			f Vinyl chloride		
b 1,1-Dichloroethene			e Tetrachloroethene			g 1,2-Dichloropropane		
c 1,2-Dichloroethane			* Sum of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene					

Analytical Report

LOG NO: E90-10-428

Received: 17 OCT 90
Reported: 23 OCT 90

Mr. Jeff Holloway
CH2M Hill
6425 Christie Street, Suite 500
Emeryville, California 94608

Project: SF028830.A1

REPORT OF ANALYTICAL RESULTS

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LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED			
10-428-2	Del Monte 35 MW-8	17 OCT 90			
10-428-3	Del Monte 35 MW-9	17 OCT 90			
10-428-4	Del Monte 35 MW-10	17 OCT 90			
10-428-5	Del Monte 35 MW-11	17 OCT 90			
PARAMETER	10-428-2	10-428-3	10-428-4	10-428-5	
Halocarbons (EPA 601)					
Date Analyzed	10.19.90	10.19.90	10.19.90	10.19.90	
Confirmation Date	10.21.90	10.21.90	10.21.90	10.21.90	
Dilution Factor, Times	2	1	1	5	
1,1,1-Trichloroethane, ug/L	<1	<0.5	<0.5	<2	
1,1,2,2-Tetrachloroethane, ug/L	<1	<0.5	<0.5	<2	
1,1,2-Trichloroethane, ug/L	<1	<0.5	<0.5	<2	
1,1-Dichloroethane, ug/L	<1	<0.5	<0.5	<2	
1,1-Dichloroethene, ug/L	<1	<0.5	<0.5	<2	
1,2-Dichloroethane, ug/L	<1	<0.5	<0.5	11	
1,2-Dichlorobenzene, ug/L	<1	<0.5	<0.5	<2	
1,2-Dichloroethene (Total), ug/L	59	70	140	150	
1,2-Dichloropropane, ug/L	<1	<0.5	<0.5	31	
1,3-Dichlorobenzene, ug/L	<1	<0.5	<0.5	<2	
1,4-Dichlorobenzene, ug/L	<1	<0.5	<0.5	<2	
2-Chloroethylvinylether, ug/L	<1	<0.5	<0.5	<2	
Bromodichloromethane, ug/L	<1	<0.5	<0.5	<2	
Bromomethane, ug/L	<1	<0.5	<0.5	<2	
Bromoform, ug/L	<1	<0.5	<0.5	<2	
Chlorobenzene, ug/L	<1	<0.5	<0.5	<2	
Carbon Tetrachloride, ug/L	<1	<0.5	<0.5	<2	
Chloroethane, ug/L	<1	<0.5	<0.5	<2	
Chloroform, ug/L	<1	<0.5	<0.5	<2	
Chloromethane, ug/L	<1	<0.5	<0.5	<2	

Analytical Report

LOG NO: E90-10-428

Received: 17 OCT 90

Reported: 23 OCT 90

Mr. Jeff Holloway
CH2M Hill
6425 Christie Street, Suite 500
Emeryville, California 94608

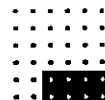
Project: SF028830.A1

REPORT OF ANALYTICAL RESULTS

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LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED			
10-428-2	Del Monte 35 MW-8	17 OCT 90			
10-428-3	Del Monte 35 MW-9	17 OCT 90			
10-428-4	Del Monte 35 MW-10	17 OCT 90			
10-428-5	Del Monte 35 MW-11	17 OCT 90			
PARAMETER	10-428-2	10-428-3	10-428-4	10-428-5	
Dibromochloromethane, ug/L	<1	<0.5	<0.5	<2	
Dichlorodifluoromethane, ug/L	<1	<0.5	<0.5	<2	
Freon 113, ug/L	<1	<0.5	<0.5	<2	
Methylene chloride, ug/L	<1	<0.5	<0.5	<2	
Trichloroethene, ug/L	160	14	35	300	
Trichlorofluoromethane, ug/L	<1	<0.5	<0.5	<2	
Tetrachloroethene, ug/L	21	32	37	8	
Vinyl chloride, ug/L	2	4.6	13	<2	
cis-1,2-Dichloroethene, ug/L	59	69	140	150	
cis-1,3-Dichloropropene, ug/L	<1	<0.5	<0.5	<2	
trans-1,2-Dichloroethene, ug/L	<1	0.6	1.5	<2	
trans-1,3-Dichloropropene, ug/L	<1	<0.5	<0.5	<2	

Hedy J. Ecklin for
Sim D. Lessley, Ph.D., 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 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 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)
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
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: $\frac{(S \text{ Bar} - \text{Sample Concentration})}{\text{Spike Amount}} \times 100$
Relative Percent Difference (RPD)	Calculated using one of the following: $\frac{(R1 - R2) \times 100}{(R1 + R2) \div 2}$ $\frac{(S1 - S2) \times 100}{(S1 + S2) \div 2}$
Blank Result	The result of the analysis of a method blank, which is reagent water that is analysed 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

ORDER PLACED FOR CLIENT: CH2M Hill 9010428 :
3C ANALYTICAL : EMVL LAB : 09:33:32 24 OCT 1990 - P. 1 :
=====

AMPLES...	SAMPLE DESCRIPTION..	DETERM CODE....	DATE....	METHOD.....	EQUIP.	BATCH	ID.NO
			ANALYZED				
10428*1	Del Monte 35 MW-7	GAS.5030.BTEX	10.20.90	5030/8015	516-19	270	7258
10428*2	Del Monte 35 MW-8	VH.601	10.19.90	601	516-12	717	7504
10428*3	Del Monte 35 MW-9	VH.601	10.19.90	601	516-12	717	7504
10428*4	Del Monte 35 MW-10	VH.601	10.19.90	601	516-12	717	7504
10428*5	Del Monte 35 MW-11	VH.601	10.19.90	601	516-12	717	7504

*

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: E9010428

REPORTED : 10/24/90

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT
I-Volatile Hydrocarbons/BTEX					
Date Analyzed	10.20.90	270	0.20.90	NA	Date
Dilution Factor	10.20.90	270	1	NA	Times
Benzene	10.20.90	270	0	0.5	mg/L
Ethylbenzene	10.20.90	270	0	0.5	mg/L
Toluene	10.20.90	270	0	0.5	mg/L
Total Xylene Isomers	10.20.90	270	0.34	0.5	mg/L
C4 to C12 Hydrocarbons	10.20.90	270	2.6	50	mg/L
Hydrocarbons (EPA 601)					
Date Analyzed	10.19.90	717	0.19.90	NA	Date
Dilution Factor	10.19.90	717	1	NA	Times
1,1,1-Trichloroethane	10.19.90	717	0	0.5	mg/L
1,1,2,2-Tetrachloroethane	10.19.90	717	0	0.5	mg/L
1,1,2-Trichloroethane	10.19.90	717	0	0.5	mg/L
1,1-Dichloroethane	10.19.90	717	0	0.5	mg/L
1,1-Dichloroethene	10.19.90	717	0	0.5	mg/L
1,2-Dichloroethane	10.19.90	717	0	0.5	mg/L
1,2-Dichlorobenzene	10.19.90	717	0	0.5	mg/L
1,2-Dichloroethene (Total)	10.19.90	717	0	0.5	mg/L
1,2-Dichloropropane	10.19.90	717	0	0.5	mg/L
1,3-Dichlorobenzene	10.19.90	717	0	0.5	mg/L
1,4-Dichlorobenzene	10.19.90	717	0	0.5	mg/L
2-Chloroethylvinylether	10.19.90	717	0	0.5	mg/L
Bromodichloromethane	10.19.90	717	0	0.5	mg/L
Bromomethane	10.19.90	717	0	0.5	mg/L
Bromoform	10.19.90	717	0	0.5	mg/L
Chlorobenzene	10.19.90	717	0	0.5	mg/L
Carbon Tetrachloride	10.19.90	717	0	0.5	mg/L
Chloroethane	10.19.90	717	0	0.5	mg/L
Chloroform	10.19.90	717	0	0.5	mg/L
Chloromethane	10.19.90	717	0	0.5	mg/L
Dibromochloromethane	10.19.90	717	0	0.5	mg/L
Dichlorodifluoromethane	10.19.90	717	0	0.5	mg/L
Freon 113	10.19.90	717	0	0.5	mg/L
Methylene chloride	10.19.90	717	0	0.5	mg/L
Trichloroethene	10.19.90	717	0	0.5	mg/L
Trichlorofluoromethane	10.19.90	717	0	0.5	mg/L
Tetrachloroethene	10.19.90	717	0	0.5	mg/L
Vinyl chloride	10.19.90	717	0	0.5	mg/L

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9010428

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TE REPORTED : 10/24/90

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT
cis-1,2-Dichloroethene	10.19.90	717	0	0.5	mg/L
cis-1,3-Dichloropropene	10.19.90	717	0	0.5	mg/L
trans-1,2-Dichloroethene	10.19.90	717	0	0.5	mg/L
trans-1,3-Dichloropropene	10.19.90	717	0	0.5	mg/L

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9010428

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DATE REPORTED : 10/24/90

LABORATORY CONTROL STANDARDS

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
PH-Volatile Hydrocarbons/BTEX						
Dilution Factor	10.20.90	270	1	1	Times	100
Benzene	10.20.90	270	22	25	ug/L	88
Ethylbenzene	10.20.90	270	24	25	ug/L	96
Toluene	10.20.90	270	24	25	ug/L	96
Total Xylene Isomers	10.20.90	270	52	25	ug/L	208
C4 to C12 Hydrocarbons	10.20.90	270	400	470	ug/L	85
Halocarbons (EPA 601)						
Dilution Factor	10.19.90	717	1	1	Times	100
1,1,1-Trichloroethane	10.19.90	717	25	20	ug/L	125
1,1,2,2-Tetrachloroethane	10.19.90	717	27	20	ug/L	135
1,1,2-Trichloroethane	10.19.90	717	23	20	ug/L	115
1,1-Dichloroethane	10.19.90	717	29	20	ug/L	145
1,1-Dichloroethene	10.19.90	717	12	20	ug/L	60
1,2-Dichloroethane	10.19.90	717	24	20	ug/L	120
1,2-Dichlorobenzene	10.19.90	717	19	20	ug/L	95
1,2-Dichloroethene (Total)	10.19.90	717	52	40	ug/L	130
1,2-Dichloropropane	10.19.90	717	25	20	ug/L	125
1,3-Dichlorobenzene	10.19.90	717	23	20	ug/L	115
1,4-Dichlorobenzene	10.19.90	717	25	20	ug/L	125
2-Chloroethylvinylether	10.19.90	717	22	20	ug/L	110
Bromodichloromethane	10.19.90	717	25	20	ug/L	125
Bromomethane	10.19.90	717	14	20	ug/L	70
Bromoform	10.19.90	717	24	20	ug/L	120
Chlorobenzene	10.19.90	717	20	20	ug/L	100
Carbon Tetrachloride	10.19.90	717	23	20	ug/L	115
Chloroethane	10.19.90	717	20	20	ug/L	100
Chloroform	10.19.90	717	24	20	ug/L	120
Chloromethane	10.19.90	717	19	20	ug/L	95
Dibromochloromethane	10.19.90	717	23	20	ug/L	115
Dichlorodifluoromethane	10.19.90	717	14	20	ug/L	70
Freon 113	10.19.90	717	12	20	ug/L	60
Methylene chloride	10.19.90	717	11	20	ug/L	55
Trichloroethene	10.19.90	717	21	20	ug/L	105
Trichlorofluoromethane	10.19.90	717	19	20	ug/L	95
Tetrachloroethene	10.19.90	717	22	20	ug/L	110
Vinyl chloride	10.19.90	717	23	20	ug/L	115
cis-1,2-Dichloroethene	10.19.90	717	23	20	ug/L	115
cis-1,3-Dichloropropene	10.19.90	717	36	32	ug/L	113

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9010428

Page 2

DATE REPORTED : 10/24/90

LABORATORY CONTROL STANDARDS

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
trans-1,2-Dichloroethene	10.19.90	717	29	20	ug/L	145
trans-1,3-Dichloropropene	10.19.90	717	8.9	8.0	ug/L	111

BC ANALYTICAL

BATCH QC REPORT
 ORDER: E9010428

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E REPORTED : 10/24/90

MATRIX QC ACCURACY (SPIKES)

AMETER	DATE ANALYZED	BATCH NUMBER	SBAR RESULT	TRUE RESULT	RBAR RESULT	PERCENT UNIT RECOVERY
(-Volatile Hydrocarbons/BTEX						
Benzene	10.20.90	270	44	52	2	ug/L 84
Ethylbenzene	10.20.90	270	54	53	3	ug/L 102
Toluene	10.20.90	270	48.5	51	1	ug/L 95
Total Xylene Isomers	10.20.90	270	120	110	14	ug/L 110
C4 to C12 Hydrocarbons	10.20.90	270	1250	1600	640	ug/L 64

BC ANALYTICAL

BATCH QC REPORT
 ORDER: E9010428

RE REPORTED : 10/24/90

MATRIX QC PRECISION (DUPLICATE SPIKES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	S1 RESULT	S2 RESULT	UNIT	RELATIVE %DIFF
H-Volatile Hydrocarbons/BTEX	10.20.90	270	2	2	Times	0
Dilution Factor	10.20.90	270	44	44	ug/L	0
Benzene	10.20.90	270	54	54	ug/L	0
Ethylbenzene	10.20.90	270	49	48	ug/L	2
Toluene	10.20.90	270	120	120	ug/L	0
Total Xylene Isomers	10.20.90	270	1300	1200	ug/L	8
C4 to C12 Hydrocarbons	10.20.90	270				

CHM HILL CHAIN OF CUSTODY RECORD

PROJECT NUMBER SF028830.A	PROJECT NAME DEL MONTE PLANT 35
CLIENT NAME DEL MONTE	
REPORT TO: JEFF HOLLOWAY	COPY TO: JEFF HOLLOWAY
REQUESTED COMPLETION DATE 10/31/90	LABORATORY B.C. ANALYTICAL

NUMBER OF CONTAINERS	ANALYSES REQUESTED									
	TPH	GAS	BTEX	DHS						

FOR LAB USE ONLY	
LAB # _____	
PROJ # _____	
ACK _____	VERIFIED _____
DATE INVOICED _____	
NO. OF SAMPLES _____	pg _____ of _____
DISPOSITION: D R _____	DATE _____
REMARKS _____	

STA NO	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION
1	10/17	8900	X		DEL MONTE 35 MW-7 -1
2	10/17	1020	X		DEL MONTE 35 MW-9 -3
3	10/17	1110	X		DEL MONTE 35 MW-11 -5
4	10/17	1135	X		DEL MONTE 35 MW-8 -2
5	10/17	1215	X		DEL MONTE 35 MW-10 -4

3	X									
3		X								
3		X								
3		X								
3		X								

SAMPLED BY AND TITLE (SIGNATURE) 1 <i>John McHugh / HYDROLOGIST</i>	DATE/TIME 10/17/90 13:00	RELINQUISHED BY (SIGNATURE) 2 <i>John McHugh</i>	DATE/TIME 10/17/90 1300	RECEIVED BY: (SIGNATURE) 3 _____	DATE/TIME _____
RELINQUISHED BY: (SIGNATURE) 4 _____	DATE/TIME _____	RECEIVED BY: (SIGNATURE) 5 _____	DATE/TIME _____	RECEIVED BY LAB: (SIGNATURE) 6 <i>[Signature]</i>	DATE/TIME 10/17/90 1300
REMARKS _____	SDWA <input type="checkbox"/>	NPDES <input type="checkbox"/>	RCRA <input type="checkbox"/>	OTHER _____ (SPECIFY)	SAMPLE SHIPPED VIA <input type="checkbox"/> UPS <input type="checkbox"/> BUS <input type="checkbox"/> FED-EX <input type="checkbox"/> HAND OTHER _____