

C A M B R I A

#

3769

September 1, 2000

Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Second Quarter 2000 Monitoring Report**
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758
Cambria Project #242-0524-002



Dear Mr. Chan:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

HYDROCARBON REMOVAL SUMMARY

Separate-Phase Hydrocarbon Removal Summary	
This Quarter (pounds)	Cumulative Removal (pounds)
0.00	21.80

The table above summarizes the cumulative separate-phase hydrocarbon (SPH) removal from the site by manual bailing.

Oakland, CA
San Ramon, CA
Sonoma, CA
Portland, OR

SECOND QUARTER 2000 ACTIVITIES

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California checked for SPH and gauged and sampled the site wells. SPH were not detected this quarter. Blaine

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calculated groundwater elevations and compiled the gasoline constituents analytical data. Cambria prepared a groundwater elevation contour map (Figure 1). Groundwater samples are analyzed for bio-attenuation parameters on an annual basis during the third quarter monitoring activities. Analytical data for bioattenuation parameters are summarized in Table 1. Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Groundwater Extraction: Groundwater extraction was not performed during the second quarter 2000.

Groundwater Extraction Mass Removal Data: Mass removal data in previously submitted quarterly monitoring reports was incorrect, as noted in the ACHCSA correspondence dated August 11, 2000. The corrected data, including current mass removal estimates, are presented in Table 2.

ANTICIPATED THIRD QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine will measure and remove detected SPH, gauge and sample all wells, and tabulate the data. Cambria will prepare a monitoring report.

Groundwater Extraction: Cambria will re-initiate monthly groundwater extraction from wells MW-2, TB-1, and TB-2, near the USTs (source area). To avoid drawing impacted water away from the source area, Cambria typically prefers not to extract groundwater from wells distant from the source.

ORC Replacement: ORC replacement has been arranged by Cambria and will be performed by Blaine in September, 2000. ORC, installed in wells MW-1, MW-3, MW-4, TB-1, and TB-2, will be replaced every six months until further notice.

Monitoring Well Installation: Cambria is evaluating alternative locations for a previously proposed monitoring well. *(when will this be resolved?)*

Quarterly Monitoring Report Submittal: The third quarter 2000 quarterly monitoring report will be submitted no later than September 30, 2000. *and future reports?*

CLOSING

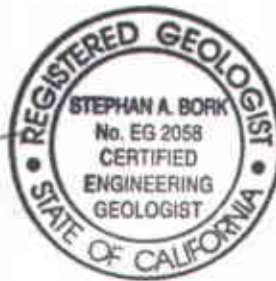
We appreciate the opportunity to work with you on this project. Please call Troy Buggle at (510) 420-3333 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Troy Buggle
Project Environmental Scientist

Stephan A. Bork, C.E.G., C.HG.
Associate Hydrogeologist

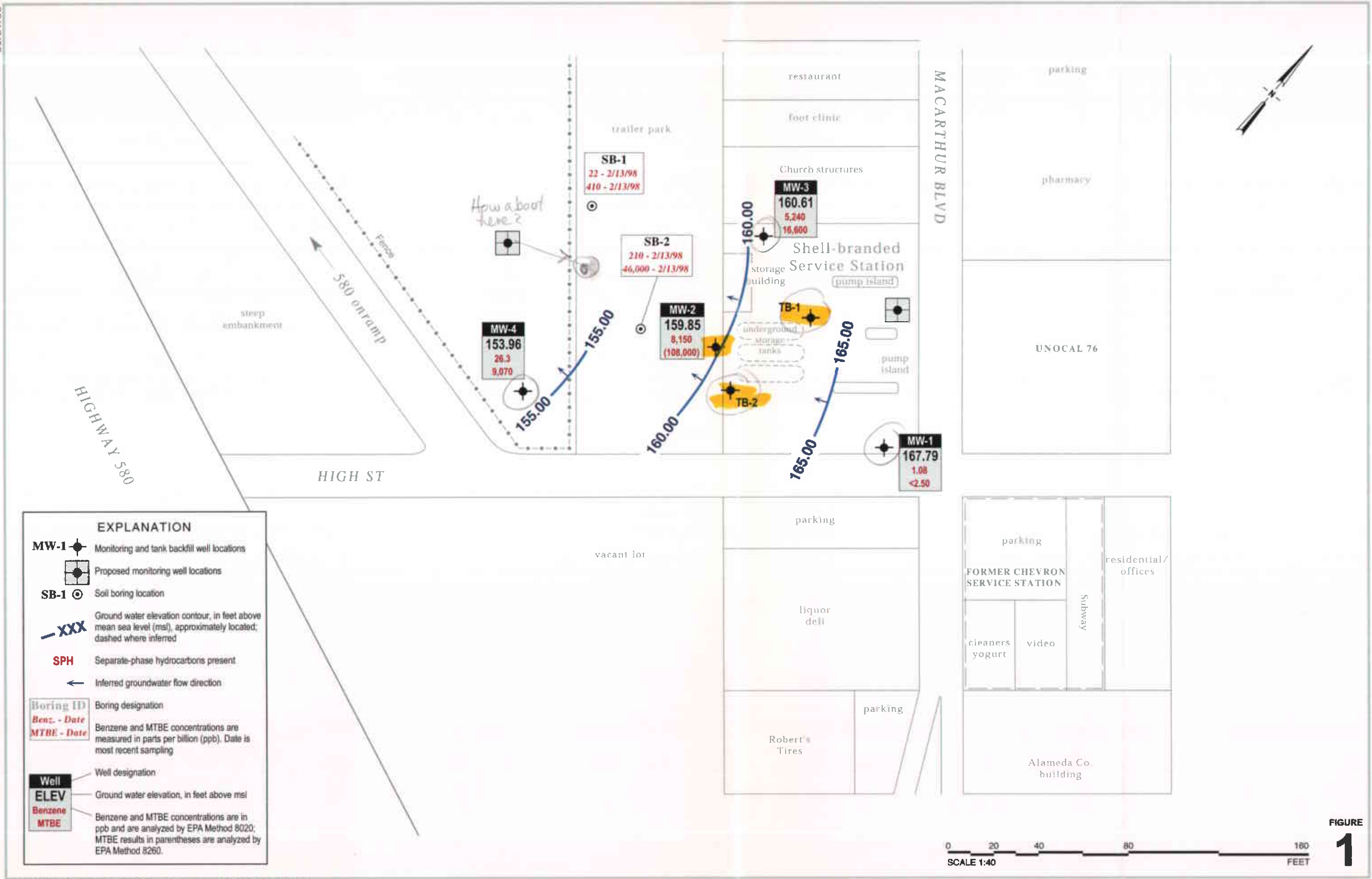


- Figure: 1 - Groundwater Elevation Contour Map
- Tables: 1 - Groundwater Bioattenuation Parameters
 2 - Mass Removal Data
- Attachments: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
 Roland C. Malone, Jr., PO Box 2099, Houston, TX 77252

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FIGURE 1

Table 1. Groundwater Bioattenuation Parameters - Shell-branded Service Station Incident #98995758 - 4255 MacArthur Blvd., Oakland, California

Well ID	Date	Ground Water Depth (ft)	(Concentrations in mg/L)					Notes
			DO	Total Alkalinity	Ferrous Iron	Nitrate as Nitrate	Sulfate	
MW-1	07/17/98	7.28	0.8	460	1.6	<1.0	12	
	07/23/99	8.51	1.0	480	0.790	7.49	28.6	
	07/26/00	7.52	3.0	93	<0.0100	7.80	387	
			13.2					
MW-2	07/17/98	11.75	---	---	---	---	---	SPH
	07/23/99	14.45	1.4	440	26.0	<1.00	3.24	
	07/26/00	12.82	2.2	26.5	3.74	7.59	399	
MW-3	07/17/98	11.51	1.3	860	5.3	<1.0	6.5	
	07/17/98	11.51	1.3	860	5.4	<1.0	5.8	duplicate
	07/23/99	14.95	1.3	920	76.0	<1.00	4.23	
	07/26/00	13.72	0.9	440	4.04	<1.00	355	
MW-4	07/17/98	6.95	1.4	630	2.8	<1.0	13	
	07/23/99	11.33	0.9	620	46.0	7.41	6.03	
	07/26/00	10.09	1.4	228	0.223	6.30	372	

Notes and Abbreviations:

DO = Dissolved oxygen

ft = Feet

mg/L = Milligrams per liter

SPH = Separate-phase hydrocarbons in well; not sampled

--- = Not analyzed

<n = Below detection limit of n mg/L

Total alkalinity by EPA Method 310.2, concentrations in mg CaCO₃/L

Ferrous iron by EPA Method 200.7

Nitrate as nitrate and sulfate by EPA Method 300.0

Table 2: Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)	Notes
04/23/99	MW-2	200	200	04/13/98	180,000	0.30040	0.30040	2,800	0.00467	0.00467	71,000	0.11849	0.11849	
05/24/99	MW-2	200	400	04/13/98	180,000	0.30040	0.60079	2,800	0.00467	0.00935	71,000	0.11849	0.23698	
06/28/99	MW-2	200	600	04/13/98	180,000	0.30040	0.90119	2,800	0.00467	0.01402	71,000	0.11849	0.35547	
07/30/99	MW-2	200	800	07/23/99	65,800	0.10981	1.01100	6,500	0.01085	0.02487	46,600	0.07777	0.43324	
08/24/99	MW-2	100	900	07/23/99	65,800	0.05491	1.06591	6,500	0.00542	0.03029	46,600	0.03888	0.47212	
10/29/99	MW-2	100	1,000	07/23/99	65,800	0.05491	1.12081	6,500	0.00542	0.03571	46,600	0.03888	0.51101	
11/30/99	MW-2	100	1,100	07/23/99	65,800	0.05491	1.17572	6,500	0.00542	0.04114	46,600	0.03888	0.54989	
02/02/00	MW-2	200	1,300	01/17/00	46,000	0.07677	1.25249	6,000	0.01001	0.05115	31,000	0.05174	0.60163	
04/23/99	TB-2	4,800	4,800	08/24/99	6,240	0.24993	0.01602	400	0.01602	0.01602	86,100	3.44856	3.44856	
05/24/99	TB-2	4,800	9,600	08/24/99	6,240	0.24993	0.26595	400	0.01602	0.03204	86,100	3.44856	6.89711	
06/28/99	TB-2	4,800	14,400	08/24/99	6,240	0.24993	0.51588	400	0.01602	0.04806	86,100	3.44856	10.34567	
07/30/99	TB-2	4,800	19,200	08/24/99	6,240	0.24993	0.76581	400	0.01602	0.06408	86,100	3.44856	13.79422	
08/24/99	TB-2	2,400	21,600	08/24/99	6,240	0.12497	0.89078	400	0.00801	0.07210	86,100	1.72428	15.51850	
10/29/99	TB-2	2,255	23,855	10/29/99	7,460	0.14037	1.03115	656	0.01234	0.08444	442	0.00832	15.52682	
11/30/99	TB-2	3,800	27,655	10/29/99	7,460	0.23655	1.26769	656	0.02080	0.10524	442	0.01402	15.54083	
02/02/00	TB-2	4,500	32,155	01/31/00	2,070	0.07773	1.34542	108	0.00406	0.10930	6,550	0.24595	15.78678	
Total Gallons Extracted:		33,455		Total Pounds Removed:		2.83182			0.16045			16.38841		
				Total Gallons Removed:		0.46423			0.02198			2.64329		

Table 2: Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)	Notes
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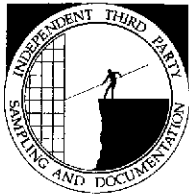
Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline, analyzed by EPA Method 8015
 MtBE = Methyl tert-butyl ether by EPA Method 8020; MTBE results in bold are analyzed by EPA Method 8260
 µg/L = Micrograms per liter
 ppb = Parts per billion, equivalent to µg/L
 lb = Pound
 L = Liter
 gal = Gallon
 g = Gram
 Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10⁶µg) x (pound/453.6g) x (3.785 L/gal)
 Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
 Benzene analyzed by EPA Method 8020

ATTACHMENT A

Blaine Groundwater Monitoring Report
and Field Notes

BLAINE
TECH SERVICES INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

May 22, 2000

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

Second Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Monitoring performed on April 17, 2000

Groundwater Monitoring Report **000417-T-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purge water (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin", with a long horizontal flourish extending to the right.

Deidre Kerwin
Operations Manager

DK/jt

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	11/17/93	410	21	11	7.9	47	NA	NA	175.79	8.59	NA	167.20	NA	NA	NA
MW-1	01/20/94	1,200	180	19	48	47	NA	NA	175.79	8.22	NA	167.57	NA	NA	NA
MW-1	04/25/94	3,100	610	<10	130	27	NA	NA	175.79	7.63	NA	168.16	NA	NA	NA
MW-1	07/07/94	2,400	1,000	10	250	20	NA	NA	175.79	8.31	NA	167.48	NA	NA	NA
MW-1	10/27/94	2,200	500	3.1	72	1.8	NA	NA	175.79	8.84	NA	166.95	NA	NA	NA
MW-1	11/17/94	NA	NA	NA	NA	NA	NA	NA	175.79	7.60	NA	168.19	NA	NA	NA
MW-1	11/28/94	NA	NA	NA	NA	NA	NA	NA	175.79	7.56	NA	168.23	NA	NA	NA
MW-1	01/13/95	570	75	2.5	6.7	11	NA	NA	175.79	7.11	NA	168.68	NA	NA	NA
MW-1	04/12/95	1,800	480	<5.0	79	<5.0	NA	NA	175.79	7.08	NA	168.71	NA	NA	NA
MW-1	07/25/95	120	15	1.1	2.1	2.9	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1 (D)	07/25/95	300	88	2.4	11	6.5	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1	10/18/95	130	9.5	0.8	1.3	1.7	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1 (D)	10/18/95	120	11	0.8	1.4	1.8	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1	01/17/96	250	22	0.9	1.6	2.3	NA	NA	175.79	7.83	NA	167.96	NA	NA	NA
MW-1	04/25/96	<50	4.6	<0.5	<0.5	0.6	500b	NA	175.79	7.35	NA	168.44	NA	NA	NA
MW-1	07/17/96	<250	15	<2.5	<2.5	<2.5	540	NA	175.79	7.70	NA	168.09	NA	NA	NA
MW-1	10/01/96	1,200	500	12	57	82	1,900	NA	175.79	8.07	NA	167.72	NA	NA	NA
MW-1	01/22/97	640	170	4.3	33	33	1,200	NA	175.79	7.21	NA	168.58	NA	NA	NA
MW-1	04/08/97	<200	34	<2.0	3.3	4.3	950	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1 (D)	04/08/97	<200	66	<2.0	6.4	8	740	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1	07/08/97	190	49	1.2	5.8	8.6	560	NA	175.79	8.01	NA	167.78	NA	NA	NA
MW-1	10/08/97	<100	7	<1.0	<1.0	<1.0	620	NA	175.79	8.10	NA	167.69	NA	NA	NA
MW-1	01/09/98	970	390	12	48	71	1,200	NA	175.79	7.14	NA	168.65	NA	NA	NA
MW-1	04/13/98	<50	136	<0.50	1.5	1.8	170	NA	175.79	6.78	NA	169.01	NA	NA	NA
MW-1	07/17/98	2,500	750	11	88	67	150	NA	175.79	7.28	NA	168.51	NA	NA	NA
MW-1	10/02/98	8,000	970	36	270	440	35	NA	175.79	7.77	NA	168.02	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	02/03/99	210	56	0.82	<0.50	3.2	220	NA	175.79	7.45	NA	168.34	NA	1.4	NA
MW-1	04/29/99	<50	4.5	<0.50	0.56	<0.50	140	196	175.79	7.58	NA	168.21	NA	1.2	140
MW-1	07/23/99	<50.0	<0.500	<0.500	<0.500	<0.500	120	111*	175.79	8.51	NA	167.28	NA	1.0	NA
MW-1	11/01/99	<50.0	<0.500	<0.500	<0.500	<0.500	2.90	NA	175.79	8.30	NA	167.49	NA	1.4	-71
MW-1	01/17/00	<50	<0.50	<0.50	<0.50	<0.50	3.3	NA	175.79	8.04	NA	167.75	NA	16.9	64
MW-1	04/17/00	<50.0	1.08	<0.500	<0.500	<0.500	<2.50	NA	175.79	8.00	NA	167.79	NA	1.8	112

MW-2	11/17/93	31,000	9,400	4,600	1,000	3,900	NA	NA	170.91	12.31	NA	158.60	NA	NA	NA
MW-2	01/20/94	40,000	6,900	5,600	780	4,100	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2 (D)	01/20/94	41,000	7,200	6,200	900	4,800	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2	04/25/94	60,000	9,300	6,100	1,400	6,200	NA	NA	170.91	10.84	NA	160.07	NA	NA	NA
MW-2	07/07/94	280,000a	40,000	26,000	8,100	32,000	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2 (D)	07/07/94	53,000	13,000	6,600	2,000	8,400	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2	10/27/94	130,000	14,000	12,000	2,400	13,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2 (D)	10/27/94	390,000	8,800	7,000	1,700	11,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2	11/17/94	NA	NA	NA	NA	NA	NA	NA	170.91	9.11	NA	161.80	NA	NA	NA
MW-2	11/28/94	NA	NA	NA	NA	NA	NA	NA	170.91	9.22	NA	161.69	NA	NA	NA
MW-2	01/13/95	75,000	5,900	12,000	3,100	17,000	NA	NA	170.91	8.10	NA	162.81	NA	NA	NA
MW-2	04/12/95	100,000	8,500	11,000	2,400	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2 (D)	04/12/95	80,000	4,200	9,300	2,500	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2	07/25/95	NA	NA	NA	NA	NA	NA	NA	170.91	11.53	NA	159.80	0.52	NA	NA
MW-2	10/18/95	NA	NA	NA	NA	NA	NA	NA	170.91	14.02	NA	156.99	0.13	NA	NA
MW-2	01/17/96	NA	NA	NA	NA	NA	NA	NA	170.91	10.27	NA	160.78	0.17	NA	NA
MW-2	04/25/96	NA	NA	NA	NA	NA	NA	NA	170.91	11.68	NA	159.25	0.03	NA	NA
MW-2	07/17/96	NA	NA	NA	NA	NA	NA	NA	170.91	12.78	NA	158.81	0.48	NA	NA
MW-2	10/01/96	NA	NA	NA	NA	NA	NA	NA	170.91	14.21	NA	156.70	0.28	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
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MW-2	01/22/97	NA	NA	NA	NA	NA	NA	NA	170.91	10.92	NA	160.08	0.11	NA	NA
MW-2	04/08/97	NA	NA	NA	NA	NA	NA	NA	170.91	14.12	NA	156.95	0.20	NA	NA
MW-2	07/08/97	NA	NA	NA	NA	NA	NA	NA	170.91	14.98	NA	156.08	0.19	NA	NA
MW-2	10/08/97	NA	NA	NA	NA	NA	NA	NA	170.91	12.97	NA	157.98	0.05	NA	NA
MW-2	01/08/98	NA	NA	NA	NA	NA	NA	NA	170.91	12.54	NA	158.43	0.08	NA	NA
MW-2	04/13/98	180,000	2,800	5,200	2,400	13,000	71,000	NA	170.91	10.05	NA	160.86	NA	NA	NA
MW-2	07/17/98	NA	NA	NA	NA	NA	NA	NA	170.91	11.75	NA	159.24	0.10	NA	NA
MW-2	10/02/98	NA	NA	NA	NA	NA	NA	NA	170.91	16.78	NA	154.22	0.11	NA	NA
MW-2	02/03/99	NA	NA	NA	NA	NA	NA	NA	170.91	9.90	9.82	161.07	0.08	NA	NA
MW-2	04/29/99	NA	NA	NA	NA	NA	NA	NA	170.91	9.86	9.81	161.09	0.05	NA	NA
MW-2	07/23/99	65,800	6,500	4,480	1,960	8,960	46,600	58,500*	170.91	14.45	NA	156.46	NA	1.4	NA
MW-2	11/01/99	NA	NA	NA	NA	NA	NA	NA	170.91	11.84	11.81	159.09	0.03	NA	NA
MW-2	01/17/00	46,000	6,000	2,400	1,500	5,500	50,000	31,000	170.91	11.00	NA	159.91	NA	1.3	-54
MW-2	04/17/00	96,300	8,150	10,200	2,820	14,900	112,000	108,000	170.91	11.06	NA	159.85	NA	2.6	125

MW-3	11/17/93	18,000	5,400	660	720	2,200	NA	NA	174.61	15.40	NA	159.21	NA	NA	NA
MW-3	01/20/94	55,000	13,000	2,600	2,200	6,500	NA	NA	174.61	14.61	NA	160.00	NA	NA	NA
MW-3	04/25/94	96,000	11,000	1,600	3,100	9,900	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3 (D)	04/25/94	78,000	12,000	1,900	2,600	7,300	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3	07/07/94	NA	NA	NA	NA	NA	NA	NA	174.61	14.54	NA	160.07	0.02	NA	NA
MW-3	10/27/94	NA	NA	NA	NA	NA	NA	NA	174.61	15.62	NA	159.03	0.05	NA	NA
MW-3	11/17/94	NA	NA	NA	NA	NA	NA	NA	174.61	13.83	NA	160.78	NA	NA	NA
MW-3	11/28/94	NA	NA	NA	NA	NA	NA	NA	174.61	14.02	NA	160.59	NA	NA	NA
MW-3	01/13/95	180,000	3,200	2,700	1,700	5,200	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3 (D)	01/13/95	23,000	4,000	690	960	3,000	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3	04/12/95	56,000	8,700	1,500	2,100	6,300	NA	NA	174.61	12.96	NA	161.65	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3	07/25/95	NA	NA	NA	NA	NA	NA	NA	174.61	14.28	NA	160.38	0.06	NA	NA
MW-3	10/18/95	NA	NA	NA	NA	NA	NA	NA	174.61	15.88	NA	158.77	0.05	NA	NA
MW-3	01/17/96	NA	NA	NA	NA	NA	NA	NA	174.61	13.86	NA	160.94	0.24	NA	NA
MW-3	04/25/96	NA	NA	NA	NA	NA	NA	NA	174.61	13.82	NA	160.81	0.02	NA	NA
MW-3	07/17/96	NA	NA	NA	NA	NA	NA	NA	174.61	16.11	NA	158.52	0.03	NA	NA
MW-3	10/01/96	46,000	7,300	530	1,700	3,900	3,200	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3 (D)	10/01/96	47,000	7,100	530	1,700	4,000	2,900	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3	01/22/97	82,000	5,200	1,300	2,800	8,900	1,100	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3 (D)	01/22/97	61,000	8,400	1,100	2,300	7,000	2,700	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3	04/08/97	NA	NA	NA	NA	NA	NA	NA	174.61	17.09	NA	157.54	0.03	NA	NA
MW-3	07/08/97	56,000	8,800	580	2,000	4,900	2,800	NA	174.61	15.85	NA	158.76	NA	NA	NA
MW-3	10/08/97	48,000	8,000	590	1,700	3,400	5,100	NA	174.61	16.22	NA	158.39	NA	NA	NA
MW-3	01/08/98	47,000	9,400	810	2,300	4,700	6,300	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3 (D)	01/08/98	48,000	8,100	750	2,000	4,100	5,800	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3	04/13/98	32,000	6,800	540	1,400	3,400	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3 (D)	04/13/98	36,000	7,300	660	1,600	3,700	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3	07/17/98	71,000	11,000	590	2,200	6,900	3,900	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3 (D)	07/17/98	76,000	12,000	700	2,600	8,000	3,000	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3	10/02/98	66,000	8,900	510	2,000	4,900	4,600	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3 (D)	10/02/98	59,000	9,400	460	2,000	4,900	4,700	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3	02/03/99	36,000	6,800	300	1,600	2,900	18,000	NA	174.61	15.21	NA	159.40	NA	1.3	NA
MW-3	04/29/99	45,000	8,100	580	2,200	5,800	4,700	5,150	174.61	15.43	NA	159.18	NA	1.5	-68
MW-3	07/23/99	29,400	3,540	215	810	3,800	4,720	6,950*	174.61	14.95	NA	159.66	NA	1.3	NA
MW-3	11/01/99	20,000	4,190	294	1,060	1,740	5,540	8,590	174.61	14.66	NA	159.95	NA	0.6	-110
MW-3	01/17/00	17,000	3,900	89	1,100	1,200	7,900	NA	174.61	13.94	NA	160.67	NA	1.3	-40
MW-3	04/17/00	28,100	5,240	247	1,540	2,750	16,600	NA	174.61	14.00	NA	160.61	NA	1.1	-86

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-4	11/17/94	NA	NA	NA	NA	NA	NA	NA	164.06	6.62	NA	157.44	NA	NA	NA
MW-4	11/28/94	2,900	200	17	76	260	NA	NA	164.06	6.11	NA	157.95	NA	NA	NA
MW-4	01/13/95	1,900	130	5.6	13	40	NA	NA	164.06	6.05	NA	158.01	NA	NA	NA
MW-4	04/12/95	680	150	<2.0	10	13	NA	NA	164.06	6.31	NA	157.75	NA	NA	NA
MW-4	07/25/95	340	100	0.8	8.8	3	NA	NA	164.06	7.36	NA	156.70	NA	NA	NA
MW-4	10/18/95	150	31	<0.5	3.5	0.8	NA	NA	164.06	8.54	NA	155.52	NA	NA	NA
MW-4	01/17/96	290	14	<0.5	1.8	0.8	NA	NA	164.06	8.48	NA	155.58	NA	NA	NA
MW-4	04/25/96	<500	65	<5	<5	<5	1,700	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4 (D)	04/25/96	<500	66	<5	8.7	<5	1,500	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4	07/17/96	<500	84	<5.0	6.5	<5.0	1,500	NA	164.06	7.75	NA	156.31	NA	NA	NA
MW-4 (D)	07/17/96	<500	54	<5.0	<5.0	<5.0	1,700	2,100	164.06	7.75	NA	156.31	NA	NA	NA
MW-4	10/01/96	<500	1.9	<5.0	<5.0	<5.0	3,000	NA	164.06	8.82	NA	155.24	NA	NA	NA
MW-4	01/22/97	580	130	<2.5	18	5.2	1,200	NA	164.06	7.51	NA	156.55	NA	NA	NA
MW-4	04/08/97	770	200	7	26	55	1,500	8	164.06	7.18	NA	156.88	NA	NA	NA
MW-4	07/08/97	570	78	<5.0	14	11	1,200	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4 (D)	07/08/97	640	81	<5.0	16	19	1,600	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4	10/08/97	<500	40	<5.0	7.4	5.4	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4 (D)	10/08/97	<500	36	<5.0	5.9	<5.0	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4	01/08/98	<1,000	55	<10	13	<10	2,000	NA	164.06	7.90	NA	156.16	NA	NA	NA
MW-4	04/13/98	350	110	2.4	20	26	<2.5	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	07/17/98	210	66	0.78	5.4	9.8	1,700	NA	164.06	6.95	NA	157.11	NA	NA	NA
MW-4	10/02/98	<50	0.69	<0.50	<0.50	<0.50	2,900	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	02/03/99	560	120	2.5	29	34	6,800	NA	164.06	7.71	NA	156.35	NA	0.9	NA
MW-4	04/29/99	390	80	1.9	13	19	7,000	8,360	164.06	7.83	NA	156.23	NA	1.1	-125
MW-4	07/23/99	460	93.6	8.40	25.2	28.8	3,760	6,000*	164.06	11.33	NA	152.73	NA	0.9	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-4	11/01/1999	77.3	0.520	<0.500	<0.500	<0.500	539	NA	164.06	10.66	NA	153.40	NA	2.8	3
MW-4	01/17/2000	160	27	<0.50	12	6.3	12,000	NA	164.06	10.15	NA	153.91	NA	3.9	-17
MW-4	04/17/2000	<500	25.3	8.38	9.35	10.4	9,079	NA	164.06	10.10	NA	153.98	NA	1.7	-129
TB-1	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	6.00	NA	NA	NA	3.8	-132
TB-1	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.65	NA	NA	NA	0.2	-165
TB-1	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.72	NA	NA	NA	0.8	-178
TB-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.55	NA	NA	NA	0.5	-152
TB-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	4.76	NA	NA	NA	4.2	-108
TB-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.33	NA	NA	NA	0.5	-148
TB-2	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.79	NA	NA	NA	0.7	-162
TB-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.75	NA	NA	NA	0.9	-121

Should run a sample from TB-1 & TB-2.

- Abbreviations:
 TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
 BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020
 MTBE = methyl-tertiary-butyl ether
 TOC = Top of Casing Elevation
 SPH = Separate-Phase Hydrocarbons
 GW = Groundwater
 ug/L = parts per billion
 msl = Mean sea level
 ft = Feet
 <n = Below detection limit

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
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D = Duplicate sample
 NA = Not applicable
 DO = Dissolved Oxygens
 ppm = parts per million
 ORP = Oxidation Reduction Potential
 mV = millivolts

Notes:
 * = Sample analyzed outside the EPA recommended holding time.
 a = Ground water surface had a sheen when sampled
 b = MTBE value is estimated by Sequoia Analytical of Redwood City, California

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:
 Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).



Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

May 8, 2000

Nick Sudano
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: Shell

Dear Nick Sudano

Enclosed are the results of analyses for sample(s) received by the laboratory on April 18, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ted Terrasas
Project Manager

CA ELAP Certificate Number 1210





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Shell Project Number: 4255 McArthur Blvd., Oakland Project Manager: Nick Sudano	Sampled: 4/17/00 Received: 4/18/00 Reported: 5/8/00 16:03
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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	MJD0528-01	Water	4/17/00
MW-2	MJD0528-02	Water	4/17/00
MW-3	MJD0528-03	Water	4/17/00
MW-4	MJD0528-04	Water	4/17/00





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Shell Project Number: 4255 McArthur Blvd., Oakland Project Manager: Nick Sudano	Sampled: 4/17/00 Received: 4/18/00 Reported: 5/8/00 16:03
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-1			MJD0528-01			Water		
Purgeable Hydrocarbons	0D26001	4/26/00	4/26/00	DHS LUFT	50.0	ND	ug/l	
Benzene	"	"	"	DHS LUFT	0.500	1.08	"	
Toluene	"	"	"	DHS LUFT	0.500	ND	"	
Ethylbenzene	"	"	"	DHS LUFT	0.500	ND	"	
Xylenes (total)	"	"	"	DHS LUFT	0.500	ND	"	
Methyl tert-butyl ether	"	"	"	DHS LUFT	2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70-130		100	%	
MW-2			MJD0528-02			Water		
Purgeable Hydrocarbons	0D26003	4/26/00	4/26/00	DHS LUFT	10000	96300	ug/l	
Benzene	"	"	"	DHS LUFT	100	8150	"	
Toluene	"	"	"	DHS LUFT	100	10200	"	
Ethylbenzene	"	"	"	DHS LUFT	100	2820	"	
Xylenes (total)	"	"	"	DHS LUFT	100	14900	"	
Methyl tert-butyl ether	"	"	"	DHS LUFT	2500	112000	"	M-03
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70-130		121	%	
MW-3			MJD0528-03			Water		
Purgeable Hydrocarbons	0D26002	4/26/00	4/26/00	DHS LUFT	5000	28100	ug/l	P-01
Benzene	"	"	"	DHS LUFT	50.0	5240	"	
Toluene	"	"	"	DHS LUFT	50.0	247	"	
Ethylbenzene	"	"	"	DHS LUFT	50.0	1540	"	
Xylenes (total)	"	"	"	DHS LUFT	50.0	2750	"	
Methyl tert-butyl ether	"	"	"	DHS LUFT	250	16600	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70-130		129	%	
MW-4			MJD0528-04			Water		
Purgeable Hydrocarbons	0D26001	4/26/00	4/26/00	DHS LUFT	500	ND	ug/l	
Benzene	"	"	"	DHS LUFT	5.00	26.3	"	
Toluene	"	"	"	DHS LUFT	5.00	6.38	"	
Ethylbenzene	"	"	"	DHS LUFT	5.00	9.35	"	
Xylenes (total)	"	"	"	DHS LUFT	5.00	10.4	"	
Methyl tert-butyl ether	"	"	"	DHS LUFT	250	9070	"	M-03
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70-130		96.5	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Shell Project Number: 4255 McArthur Blvd., Oakland Project Manager: Nick Sudano	Sampled: 4/17/00 Received: 4/18/00 Reported: 5/8/00 16:03
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**MTBE by EPA Method 8260A
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-2				MJD0528-02			Water	
Methyl tert-butyl ether	0E04008	5/4/00	5/4/00	EPA 8260A	10000	108000	ug/l	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	"	"	70-130		95.4	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Shell Project Number: 4255 McArthur Blvd., Oakland Project Manager: Nick Sudano	Sampled: 4/17/00 Received: 4/18/00 Reported: 5/8/00 16:03
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Recov. Limits	RPD % Limit	RPD % Notes*
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Batch: 0D26001	Date Prepared: 4/26/00	Extraction Method: EPA 5030B [P/T]						
Blank	0D26001-BLK1							
Purgeable Hydrocarbons	4/26/00			ND	ug/l	50.0		
Benzene	"			ND	"	0.500		
Toluene	"			ND	"	0.500		
Ethylbenzene	"			ND	"	0.500		
Xylenes (total)	"			ND	"	0.500		
Methyl tert-butyl ether	"			ND	"	2.50		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		9.96	"	70-130	99.6	

LCS	0D26001-BS1							
Benzene	4/26/00	10.0		10.6	ug/l	70-130	106	
Toluene	"	10.0		10.4	"	70-130	104	
Ethylbenzene	"	10.0		10.4	"	70-130	104	
Xylenes (total)	"	30.0		31.6	"	70-130	105	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		10.3	"	70-130	103	

Matrix Spike	0D26001-MS1	MJD0591-01						
Benzene	4/26/00	10.0	ND	10.5	ug/l	60-140	105	
Toluene	"	10.0	ND	10.4	"	60-140	104	
Ethylbenzene	"	10.0	ND	10.2	"	60-140	102	
Xylenes (total)	"	30.0	ND	31.1	"	60-140	104	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		10.2	"	70-130	102	

Matrix Spike Dup	0D26001-MSD1	MJD0591-01						
Benzene	4/26/00	10.0	ND	10.6	ug/l	60-140	106	25 0.948
Toluene	"	10.0	ND	10.5	"	60-140	105	25 0.957
Ethylbenzene	"	10.0	ND	10.4	"	60-140	104	25 1.94
Xylenes (total)	"	30.0	ND	31.6	"	60-140	105	25 1.59
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		10.0	"	70-130	100	

Batch: 0D26002	Date Prepared: 4/26/00	Extraction Method: EPA 5030B [P/T]						
Blank	0D26002-BLK1							
Purgeable Hydrocarbons	10/26/00			ND	ug/l	50.0		
Benzene	"			ND	"	0.500		
Toluene	"			ND	"	0.500		
Ethylbenzene	"			ND	"	0.500		
Xylenes (total)	"			ND	"	0.500		
Methyl tert-butyl ether	"			ND	"	2.50		





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Shell Project Number: 4255 McArthur Blvd., Oakland Project Manager: Nick Sudano	Sampled: 4/17/00 Received: 4/18/00 Reported: 5/8/00 16:03
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued) 0D26002-BLK1									
Surrogate: a,a,a-Trifluorotoluene	10/26/00	10.0		10.8	ug/l	70-130	108		
LCS 0D26002-BS1									
Purgeable Hydrocarbons	4/26/00	250		269	ug/l	70-130	108		
Surrogate: a,a,a-Trifluorotoluene	"	10.0		15.0	"	70-130	150		S-02
Matrix Spike 0D26002-MS1 MJD0644-04									
Purgeable Hydrocarbons	4/26/00	250	ND	310	ug/l	60-140	124		
Surrogate: a,a,a-Trifluorotoluene	"	10.0		15.4	"	70-130	154		S-02
Matrix Spike Dup 0D26002-MSD1 MJD0644-04									
Purgeable Hydrocarbons	4/26/00	250	ND	285	ug/l	60-140	114	25	8.40
Surrogate: a,a,a-Trifluorotoluene	"	10.0		13.8	"	70-130	138		S-02
Batch: 0D26003 Date Prepared: 4/26/00 Extraction Method: EPA 5030B [P/T]									
Blank 0D26003-BLK1									
Purgeable Hydrocarbons	4/26/00			ND	ug/l	50.0			
Benzene	"			ND	"	0.500			
Toluene	"			ND	"	0.500			
Ethylbenzene	"			ND	"	0.500			
Xylenes (total)	"			ND	"	0.500			
Methyl tert-butyl ether	"			ND	"	2.50			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.7	"	70-130	107		
LCS 0D26003-BS1									
Benzene	4/26/00	10.0		11.3	ug/l	70-130	113		
Toluene	"	10.0		10.00	"	70-130	100		
Ethylbenzene	"	10.0		9.24	"	70-130	92.4		
Xylenes (total)	"	30.0		27.9	"	70-130	93.0		
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.7	"	70-130	107		
Matrix Spike 0D26003-MS1 MJD0582-01									
Benzene	4/26/00	10.0	ND	11.0	ug/l	60-140	110		
Toluene	"	10.0	ND	9.83	"	60-140	98.3		
Ethylbenzene	"	10.0	ND	9.20	"	60-140	92.0		
Xylenes (total)	"	30.0	ND	27.6	"	60-140	92.0		
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.4	"	70-130	104		





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Shell Project Number: 4255 McArthur Blvd., Oakland Project Manager: Nick Sudano	Sampled: 4/17/00 Received: 4/18/00 Reported: 5/8/00 16:03
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup										
	0D26003-MSD1	MJD0582-01								
Benzene	4/26/00	10.0	ND	11.3	ug/l	60-140	113	25	2.69	
Toluene	"	10.0	ND	10.1	"	60-140	101	25	2.71	
Ethylbenzene	"	10.0	ND	9.36	"	60-140	93.6	25	1.72	
Xylenes (total)	"	30.0	ND	28.2	"	60-140	94.0	25	2.15	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		10.5	"	70-130	105			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Shell Project Number: 4255 McArthur Blvd., Oakland Project Manager: Nick Sudano	Sampled: 4/17/00 Received: 4/18/00 Reported: 5/8/00 16:03
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**MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
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Batch: 0E04008		Date Prepared: 5/3/00		Extraction Method: EPA 5030B (P/T)						
Blank		0E04008-BLK1								
Methyl tert-butyl ether	5/3/00			ND	ug/l	1.00				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.84	"	70-130	98.4			
Blank		0E04008-BLK2								
Methyl tert-butyl ether	5/4/00			ND	ug/l	1.00				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.61	"	70-130	96.1			
LCS		0E04008-BS1								
Methyl tert-butyl ether	5/3/00	10.0		9.35	ug/l	70-130	93.5			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.66	"	70-130	96.6			
LCS		0E04008-BS2								
Methyl tert-butyl ether	5/4/00	10.0		9.12	ug/l	70-130	91.2			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.38	"	70-130	93.8			
Matrix Spike		0E04008-MS1 MJD0866-01								
Methyl tert-butyl ether	5/3/00	10.0	ND	9.40	ug/l	70-130	94.0			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.86	"	70-130	98.6			
Matrix Spike Dup		0E04008-MSD1 MJD0866-01								
Methyl tert-butyl ether	5/3/00	10.0	ND	9.33	ug/l	70-130	93.3	25	0.747	
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.90	"	70-130	99.0			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Shell Project Number: 4255 McArthur Blvd., Oakland Project Manager: Nick Sudano	Sampled: 4/17/00 Received: 4/18/00 Reported: 5/8/00 16:03
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Notes and Definitions

#	Note
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- M-03 Sample was analyzed at a second dilution per clients request.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference



BLAINE

TECH SERVICES INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB SEQUOIA

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA

RWQCB REGION

LIA

OTHER

MJ00528

CHAIN OF CUSTODY
D0DA17-T2

CLIENT
 Equiva - Karen Petryna

SITE
 4255 McArthur Blvd,
 Oakland, CA

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	S = SOIL W = H2O	CONTAINERS	
		TOTAL	

TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010
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SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995758

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.	DATE	TIME	MATRIX	TOTAL	CONTAINERS	C	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW1	4/17/00	1210	W	3	WA/HCL		X	Y					Confirm the			
MW2		1300		3			Y	Y					Highest MTBE			
MW3		1247		3			Y	Y					hit by 8260			
MW4		1235		3			X	X								

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED	
	4/17/00		Mike Tbil	NO LATER THAN	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	4/18/00	9:37		4/18/00	9:37
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	4/17/00			4/18/00	12:07
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		

WELL GAUGING DATA

Project # D00417-T2 Date 4-17-00 Client 204-5510-0606

Site A255 MacArthur Blvd., Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	DDM / or P
MW1	4					8.00	23.30		1.8 / 112
MW2	4	odor / sheen				11.06	19.50		2.6 / 125
MW3	4					14.00	21.78		1.1 / 96
MW4	2					10.10	30.47		1.7 / 129
TB-1	4					7.65	13.40		0.5 / 152
TB-2	4					9.75	12.90		0.9 / 121

WELL MONITORING DATA SHEET

Project #: <u>000417-T2</u>	Client: <u>204-5510-0600</u>
Sampler: <u>M</u>	Start Date: <u>4/17</u>
Well I.D.: <u>MW1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>23.30</u>	Depth to Water: <u>8.00</u>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>RVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible X
 Waterra
 Peristaltic
 Extraction Pump
 Other: _____

Sampling Method:

- Bailer X
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

$$\frac{10}{1} \text{ (Gals.)} \times \frac{3}{1} = \frac{30}{1} \text{ Gals.}$$
 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1201	70.0	7.0	1100	19	10	
1202	69.7	7.1	1050	18	20	
1204	69.6	7.1	1050	15	30	

Did well dewater? Yes No Gallons actually evacuated: 30

Sampling Time: 1210 Sampling Date: 4/17

Sample I.D.: MW1 Laboratory: SR

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd): Pre-purge: 1.8 mg/L Post-purge: _____ mg/L
 ORP (if req'd): Pre-purge: 112 mV Post-purge: _____ mV

WELL MONITORING DATA SHEET

Project #: <u>000417-T2</u>	Client: <u>22A-5510-06000</u>
Sampler: <u>MT</u>	Start Date: <u>4/17</u>
Well I.D.: <u>MW2</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>19.50</u>	Depth to Water: <u>11.00</u>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade _____	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

<u>5.5</u>	(Gals.) X	<u>3</u>	=	<u>16.5</u>	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1251	67.2	6.7	870	41	6	odor, green
1252	67.4	6.7	910	60	12	" "
1253	67.6	6.7	920	57	18	" "

Did well dewater? Yes No Gallons actually evacuated: 18

Sampling Time: 1300 Sampling Date: 4/17

Sample I.D.: MW2 Laboratory: SEQ

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	<u>2.6</u> mg/L	Post-purge:	_____ mg/L
ORP (if req'd):	Pre-purge:	<u>125</u> mV	Post-purge:	_____ mV

WELL MONITORING DATA SHEET

Project #: <u>ODDA17-T2</u>	Client: <u>20A-5510-01000</u>
Sampler: <u>MT</u>	Start Date: <u>4/17</u>
Well I.D.: <u>MW3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>21.78</u>	Depth to Water: <u>1400</u>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

Bailers
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

5.0	(Gals.) X	3	=	15.0	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1240	107.4	6.5	1319	30	5	clear, green
1241	106.9	6.6	1342	12	10	"
1242	106.9	6.5	1351	11	15	"

Did well dewater? Yes Gallons actually evacuated: 15

Sampling Time: 1247 Sampling Date: 4/17

Sample I.D.: MW3 Laboratory: SELQ

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	1.1	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	-900	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>DDDA17-T2</u>	Client: <u>2DA-SS/D-DLDD</u>
Sampler: <u>MT</u>	Start Date: <u>4/17</u>
Well I.D.: <u>W4</u>	Well Diameter: <u>②</u> 3 4 6 8 _____
Total Well Depth: <u>30.47</u>	Depth to Water: 30.47 <u>10.10</u>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade _____	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

<u>3.3</u> (Gals.) X	<u>3</u>	= <u>9.9</u> Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1221	64.2	6.7	1130	7200	3.5	
1225	63.9	6.8	1112	7200	7	
1229	63.7	6.8	1115	7200	10	

Did well dewater? Yes No Gallons actually evacuated: 10

Sampling Time: 1235 Sampling Date: 4.17

Sample I.D.: W4 Laboratory: SEK

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge: <u>1.7</u> mg/L	Post-purge: _____ mg/L
ORP (if req'd):	Pre-purge: <u>429</u> mV	Post-purge: _____ mV