

CAMBRIA

November 16, 2000

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

3769

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

ENVIRONMENTAL
PROTECTION
03 NOV 20 PM 4: 25



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.

THIRD QUARTER 2000 ACTIVITIES

Oakland, CA
San Ramon, CA
Sonoma, CA

**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, gauged and sampled the site wells, calculated groundwater elevations and compiled the analytical data. Cambria compiled the bioattenuation parameters analytical data (Table 1) and prepared a groundwater elevation contour map (Figure 1). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Active Remediation: Cambria is re-initiating active remediation onsite beginning November 16, 2000. We will perform an initial dual vacuum extraction (DVE) event using a vacuum truck and stinger arrangement to remove vapors and groundwater from wells MW-2 and TB-2. Mass removal data will be calculated and included in the next quarterly monitoring report. Based on results of the initial DVE event, an optimized treatment program will commence.

ANTICIPATED FOURTH 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.

Dual Vacuum Extraction: Cambria expects to perform monthly site visits to oversee DVE operations using wells MW-2 and TB-2.

Monitoring Well Installation: In a letter from your office dated August 22, 2000, you suggested that the previously proposed monitoring well be permitted and installed on the adjacent trailer park property instead of on the downgradient CalTrans property. After reviewing historic and current site conditions, Cambria does not believe that an additional well is warranted at this time. The area in which the well would be re-located has been previously investigated. Additionally, it is not likely that there are significant receptors in the nearby downgradient direction due to the proximity of the Interstate 580 corridor to the site. Groundwater monitoring data from MW-2 and MW-4 illustrates that downgradient attenuation of benzene and methyl tert-butyl ether (MTBE) is occurring.

In lieu of further subsurface investigation at this time, Cambria recommends that we prepare a site conceptual model (SCM) which includes an area well survey and conduit study. The SCM will summarize known environmental-related information about the site and surrounding areas and will address the relative risk to potential receptors by hydrocarbons and MTBE at the site.

Fourth Quarter 2000 Monitoring Report: The fourth quarter 2000 monitoring report will be submitted no later than December 27, 2000.

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 A. Buggle
Project Scientist

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



Figure: 1 - Groundwater Elevation Contour Map

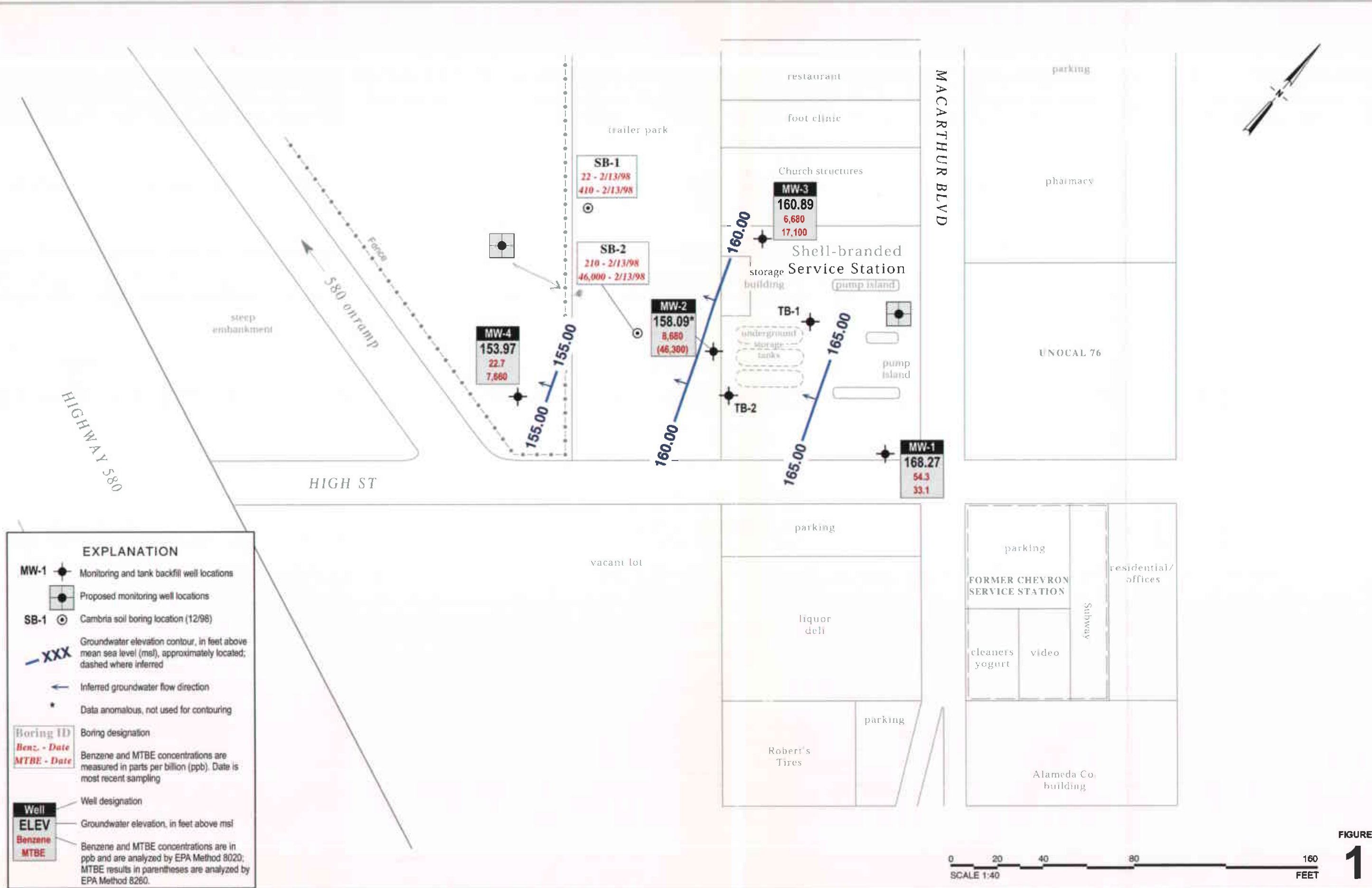
Table: 1 - Bioattenuation Parameters Analytical Data

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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11/18/00



EXPLANATION

- MW-1 Monitoring and tank backfill well locations
- Proposed monitoring well locations
- SB-1 Cambria soil boring location (12/98)
- XXX--- Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- ← Inferred groundwater flow direction
- * Data anomalous, not used for contouring

Boring ID	Boring designation
Benz. - Date	Benzene and MTBE concentrations are measured in parts per billion (ppb). Date is most recent sampling
MTBE - Date	

Well	Well designation
ELEV	Groundwater elevation, in feet above msl
Benzene	Benzene and MTBE concentrations are in ppb and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260.
MTBE	

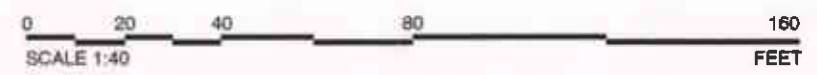


FIGURE 1

Groundwater Elevation Contour Map
July 26, 2000



CAMBRIA

Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758

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

Well ID	Date	ORP (mV)	DO	Total Alkalinity				Sulfate	Notes
				(Concentrations in mg/L)					
MW-1	07/17/98	---	0.8	460	1.6	<1.0	12		
	07/23/99	---	1.0	480	0.790	7.49	28.6		
	07/26/00	-140	13.2	92.9	<0.0100	7.80	387		
MW-2	07/17/98	---	---	---	---	---	---	SPH	
	07/23/99	---	1.4	440	26.0	<1.00	3.24		
	07/26/00	113	2.2	26.5	3.74	7.59	399		
MW-3	07/17/98	---	1.3	860	5.3	<1.0	6.5		
	07/17/98	---	1.3	860	5.4	<1.0	5.8	duplicate	
	07/23/99	---	1.3	920	76.0	<1.00	4.23		
	07/26/00	-70	0.9	440	4.04	<1.00	355		
MW-4	07/17/98	---	1.4	630	2.8	<1.0	13		
	07/23/99	---	0.9	620	46.0	7.41	6.03		
	07/26/00	-137	1.4	228	0.223	6.30	372		

Abbreviations & Notes:

ORP = Oxidation reduction potential, measured pre-purge

mV = Millivolts

DO = Dissolved oxygen, measured pre-purge

mg/L = Milligrams per liter

SPH = Separate-phase hydrocarbons in well; not sampled

--- = Not analyzed / Not available

<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

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

August 25, 2000

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

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

Monitoring performed on July 26, 2000

Groundwater Monitoring Report 000726-Y-3

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. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

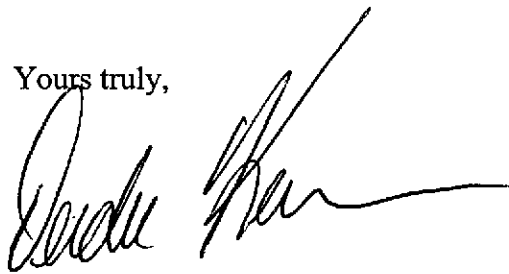
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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", written over a horizontal line.

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	11/17/1993	410	21	11	7.9	47	NA	NA	175.79	8.59	NA	167.20	NA	NA	NA
MW-1	01/20/1994	1,200	180	19	48	47	NA	NA	175.79	8.22	NA	167.57	NA	NA	NA
MW-1	04/25/1994	3,100	610	<10	130	27	NA	NA	175.79	7.63	NA	168.16	NA	NA	NA
MW-1	07/07/1994	2,400	1,000	10	250	20	NA	NA	175.79	8.31	NA	167.48	NA	NA	NA
MW-1	10/27/1994	2,200	500	3.1	72	1.8	NA	NA	175.79	8.84	NA	166.95	NA	NA	NA
MW-1	11/17/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.60	NA	168.19	NA	NA	NA
MW-1	11/28/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.56	NA	168.23	NA	NA	NA
MW-1	01/13/1995	570	75	2.5	6.7	11	NA	NA	175.79	7.11	NA	168.68	NA	NA	NA
MW-1	04/12/1995	1,800	480	<5.0	79	<5.0	NA	NA	175.79	7.08	NA	168.71	NA	NA	NA
MW-1	07/25/1995	120	15	1.1	2.1	2.9	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1 (D)	07/25/1995	300	88	2.4	11	6.5	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1	10/18/1995	130	9.5	0.8	1.3	1.7	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1 (D)	10/18/1995	120	11	0.8	1.4	1.8	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1	01/17/1996	250	22	0.9	1.6	2.3	NA	NA	175.79	7.83	NA	167.96	NA	NA	NA
MW-1	04/25/1996	<50	4.6	<0.5	<0.5	0.6	500b	NA	175.79	7.35	NA	168.44	NA	NA	NA
MW-1	07/17/1996	<250	15	<2.5	<2.5	<2.5	540	NA	175.79	7.70	NA	168.09	NA	NA	NA
MW-1	10/01/1996	1,200	500	12	57	82	1,900	NA	175.79	8.07	NA	167.72	NA	NA	NA
MW-1	01/22/1997	640	170	4.3	33	33	1,200	NA	175.79	7.21	NA	168.58	NA	NA	NA
MW-1	04/08/1997	<200	34	<2.0	3.3	4.3	950	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1 (D)	04/08/1997	<200	66	<2.0	6.4	8	740	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1	07/08/1997	190	49	1.2	5.8	8.6	560	NA	175.79	8.01	NA	167.78	NA	NA	NA
MW-1	10/08/1997	<100	7	<1.0	<1.0	<1.0	620	NA	175.79	8.10	NA	167.69	NA	NA	NA
MW-1	01/09/1998	970	390	12	48	71	1,200	NA	175.79	7.14	NA	168.65	NA	NA	NA
MW-1	04/13/1998	<50	136	<0.50	1.5	1.8	170	NA	175.79	6.78	NA	169.01	NA	NA	NA
MW-1	07/17/1998	2,500	750	11	88	67	150	NA	175.79	7.28	NA	168.51	NA	NA	NA
MW-1	10/02/1998	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	02/03/1999	210	56	0.82	<0.50	3.2	220	NA	175.79	7.45	NA	168.34	NA	1.4	NA
MW-1	04/29/1999	<50	4.5	<0.50	0.56	<0.50	140	196	175.79	7.58	NA	168.21	NA	1.2	140
MW-1	07/23/1999	<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	11/01/1999	<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	01/17/2000	<50	<0.50	<0.50	<0.50	<0.50	3.30	NA	175.79	8.04	NA	167.75	NA	16.9	64
MW-1	04/17/2000	<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-1	07/26/2000	125	54.3	2.16	5.45	9.86	33.1	NA	175.79	7.52	NA	168.27	NA	13.2	-140

MW-2	11/17/1993	31,000	9,400	4,600	1,000	3,900	NA	NA	170.91	12.31	NA	158.60	NA	NA	NA
MW-2	01/20/1994	40,000	6,900	5,600	780	4,100	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2 (D)	01/20/1994	41,000	7,200	6,200	900	4,800	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2	04/25/1994	60,000	9,300	6,100	1,400	6,200	NA	NA	170.91	10.84	NA	160.07	NA	NA	NA
MW-2	07/07/1994	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)	07/07/1994	53,000	13,000	6,600	2,000	8,400	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2	10/27/1994	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)	10/27/1994	390,000	8,800	7,000	1,700	11,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2	11/17/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.11	NA	161.80	NA	NA	NA
MW-2	11/28/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.22	NA	161.69	NA	NA	NA
MW-2	01/13/1995	75,000	5,900	12,000	3,100	17,000	NA	NA	170.91	8.10	NA	162.81	NA	NA	NA
MW-2	04/12/1995	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)	04/12/1995	80,000	4,200	9,300	2,500	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2	07/25/1995	NA	NA	NA	NA	NA	NA	NA	170.91	11.53	NA	159.80	0.52	NA	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	170.91	14.02	NA	156.99	0.13	NA	NA
MW-2	01/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	10.27	NA	160.78	0.17	NA	NA
MW-2	04/25/1996	NA	NA	NA	NA	NA	NA	NA	170.91	11.68	NA	159.25	0.03	NA	NA
MW-2	07/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	12.78	NA	158.81	0.48	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	10/01/1996	NA	NA	NA	NA	NA	NA	NA	170.91	14.21	NA	156.70	0.28	NA	NA
MW-2	01/22/1997	NA	NA	NA	NA	NA	NA	NA	170.91	10.92	NA	160.08	0.11	NA	NA
MW-2	04/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.12	NA	156.95	0.20	NA	NA
MW-2	07/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.98	NA	156.08	0.19	NA	NA
MW-2	10/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	12.97	NA	157.98	0.05	NA	NA
MW-2	01/08/1998	NA	NA	NA	NA	NA	NA	NA	170.91	12.54	NA	158.43	0.08	NA	NA
MW-2	04/13/1998	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	07/17/1998	NA	NA	NA	NA	NA	NA	NA	170.91	11.75	NA	159.24	0.10	NA	NA
MW-2	10/02/1998	NA	NA	NA	NA	NA	NA	NA	170.91	16.78	NA	154.22	0.11	NA	NA
MW-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.90	9.82	161.07	0.08	NA	NA
MW-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.86	9.81	161.09	0.05	NA	NA
MW-2	07/23/1999	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	11/01/1999	NA	NA	NA	NA	NA	NA	NA	170.91	11.84	11.81	159.09	0.03	NA	NA
MW-2	01/17/2000	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	04/17/2000	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-2	07/26/2000	72,400	8,680	5,620	2,810	13,400	66,200	46,300	170.91	12.82	NA	158.09	NA	2.2	113

MW-3	11/17/1993	18,000	5,400	660	720	2,200	NA	NA	174.61	15.40	NA	159.21	NA	NA	NA
MW-3	01/20/1994	55,000	13,000	2,600	2,200	6,500	NA	NA	174.61	14.61	NA	160.00	NA	NA	NA
MW-3	04/25/1994	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)	04/25/1994	78,000	12,000	1,900	2,600	7,300	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3	07/07/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.54	NA	160.07	0.02	NA	NA
MW-3	10/27/1994	NA	NA	NA	NA	NA	NA	NA	174.61	15.62	NA	159.03	0.05	NA	NA
MW-3	11/17/1994	NA	NA	NA	NA	NA	NA	NA	174.61	13.83	NA	160.78	NA	NA	NA
MW-3	11/28/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.02	NA	160.59	NA	NA	NA
MW-3	01/13/1995	180,000	3,200	2,700	1,700	5,200	NA	NA	174.61	12.13	NA	162.48	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 (D)	01/13/1995	23,000	4,000	690	960	3,000	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3	04/12/1995	56,000	8,700	1,500	2,100	6,300	NA	NA	174.61	12.96	NA	161.65	NA	NA	NA
MW-3	07/25/1995	NA	NA	NA	NA	NA	NA	NA	174.61	14.28	NA	160.38	0.06	NA	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	174.61	15.88	NA	158.77	0.05	NA	NA
MW-3	01/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.86	NA	160.94	0.24	NA	NA
MW-3	04/25/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.82	NA	160.81	0.02	NA	NA
MW-3	07/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	16.11	NA	158.52	0.03	NA	NA
MW-3	10/01/1996	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)	10/01/1996	47,000	7,100	530	1,700	4,000	2,900	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3	01/22/1997	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)	01/22/1997	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	04/08/1997	NA	NA	NA	NA	NA	NA	NA	174.61	17.09	NA	157.54	0.03	NA	NA
MW-3	07/08/1997	56,000	8,800	580	2,000	4,900	2,800	NA	174.61	15.85	NA	158.76	NA	NA	NA
MW-3	10/08/1997	48,000	8,000	590	1,700	3,400	5,100	NA	174.61	16.22	NA	158.39	NA	NA	NA
MW-3	01/08/1998	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)	01/08/1998	48,000	8,100	750	2,000	4,100	5,800	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3	04/13/1998	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)	04/13/1998	36,000	7,300	660	1,600	3,700	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3	07/17/1998	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)	07/17/1998	76,000	12,000	700	2,600	8,000	3,000	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3	10/02/1998	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)	10/02/1998	59,000	9,400	460	2,000	4,900	4,700	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3	02/03/1999	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	04/29/1999	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	07/23/1999	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	11/01/1999	20,000	4,190	294	1,060	1,740	5,540	8,590	174.61	14.66	NA	159.95	NA	0.6	-110

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

No atten @ MW-3

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	01/17/2000	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	04/17/2000	28,100	5,240	247	1,540	2,750	16,600	NA	174.61	14.00	NA	160.61	NA	1.1	-86
MW-3	07/26/2000	24,300	6,680	159	1,610	1,640	17,100	NA	174.61	13.72	NA	160.89	NA	0.9	-70
MW-4	11/17/1994	NA	NA	NA	NA	NA	NA	NA	164.06	6.62	NA	157.44	NA	NA	NA
MW-4	11/28/1994	2,900	200	17	76	260	NA	NA	164.06	6.11	NA	157.95	NA	NA	NA
MW-4	01/13/1995	1,900	130	5.6	13	40	NA	NA	164.06	6.05	NA	158.01	NA	NA	NA
MW-4	04/12/1995	680	150	<2.0	10	13	NA	NA	164.06	6.31	NA	157.75	NA	NA	NA
MW-4	07/25/1995	340	100	0.8	8.8	3	NA	NA	164.06	7.36	NA	156.70	NA	NA	NA
MW-4	10/18/1995	150	31	<0.5	3.5	0.8	NA	NA	164.06	8.54	NA	155.52	NA	NA	NA
MW-4	01/17/1996	290	14	<0.5	1.8	0.8	NA	NA	164.06	8.48	NA	155.58	NA	NA	NA
MW-4	04/25/1996	<500	65	<5	<5	<5	1,700	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4 (D)	04/25/1996	<500	66	<5	8.7	<5	1,500	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4	07/17/1996	<500	84	<5.0	6.5	<5.0	1,500	NA	164.06	7.75	NA	156.31	NA	NA	NA
MW-4 (D)	07/17/1996	<500	54	<5.0	<5.0	<5.0	1,700	2,100	164.06	7.75	NA	156.31	NA	NA	NA
MW-4	10/01/1996	<500	1.9	<5.0	<5.0	<5.0	3,000	NA	164.06	8.82	NA	155.24	NA	NA	NA
MW-4	01/22/1997	580	130	<2.5	18	5.2	1,200	NA	164.06	7.51	NA	156.55	NA	NA	NA
MW-4	04/08/1997	770	200	7	26	55	1,500	8	164.06	7.18	NA	156.88	NA	NA	NA
MW-4	07/08/1997	570	78	<5.0	14	11	1,200	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4 (D)	07/08/1997	640	81	<5.0	16	19	1,600	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4	10/08/1997	<500	40	<5.0	7.4	5.4	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4 (D)	10/08/1997	<500	36	<5.0	5.9	<5.0	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4	01/08/1998	<1,000	55	<10	13	<10	2,000	NA	164.06	7.90	NA	156.16	NA	NA	NA
MW-4	04/13/1998	350	110	2.4	20	26	<2.5	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	07/17/1998	210	66	0.78	5.4	9.8	1,700	NA	164.06	6.95	NA	157.11	NA	NA	NA
MW-4	10/02/1998	<50	0.69	<0.50	<0.50	<0.50	2,900	NA	164.06	7.35	NA	156.71	NA	NA	NA

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

No attenuation MW-4

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-4	02/03/1999	560	120	2.5	29	34	6,800	NA	164.06	7.71	NA	156.35	NA	0.9	NA
MW-4	04/29/1999	390	80	1.9	13	19	7,000	8,360	164.06	7.83	NA	156.23	NA	1.1	-125
MW-4	07/23/1999	460	93.6	8.40	25.2	28.8	3,760	6,000*	164.06	11.33	NA	152.73	NA	0.9	NA
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	26	6.38	9.35	10.4	9,070	NA	164.06	10.10	NA	153.96	NA	1.7	-129
MW-4	07/26/2000	<500	22.7	<5.00	7.59	6.96	7,660	NA	164.06	10.09	NA	153.97	NA	1.4	-137

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	7.65	NA	NA	NA	0.5	-152
TB-1	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	5.13	NA	NA	NA	1.0	-124

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
TB-2	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	4.73	NA	NA	NA	0.9	-85

*Need to analyze to determine
mass & mass removal.*

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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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

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).



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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MJG0789-01	Water	07/26/00 13:15	07/27/00 12:19
MW-2	MJG0789-02	Water	07/26/00 14:04	07/27/00 12:19
MW-3	MJG0789-03	Water	07/26/00 13:38	07/27/00 12:19
MW-4	MJG0789-04	Water	07/26/00 14:50	07/27/00 12:19

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Ted Terrasas, Project Manager





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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MJG0789-04) Water Sampled: 07/26/00 14:50 Received: 07/27/00 12:19									
Purgeable Hydrocarbons	ND	500	ug/l	10	0H04002	08/04/00	08/04/00	DHS LUFT	R-05
Benzene	22.7	5.00	"	"	"	"	"	"	R-05
Toluene	ND	5.00	"	"	"	"	"	"	R-05
Ethylbenzene	7.59	5.00	"	"	"	"	"	"	R-05
Xylenes (total)	6.96	5.00	"	"	"	"	"	"	R-05
Methyl tert-butyl ether	7660	250	"	100	"	"	08/07/00	"	M-03
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.3 %		70-130	"	"	08/04/00	"	





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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MJG0789-04) Water Sampled: 07/26/00 14:50 Received: 07/27/00 12:19									
Purgeable Hydrocarbons	ND	500	ug/l	10	0H04002	08/04/00	08/04/00	DHS LUFT	R-05
Benzene	22.7	5.00	"	"	"	"	"	"	R-05
Toluene	ND	5.00	"	"	"	"	"	"	R-05
Ethylbenzene	7.59	5.00	"	"	"	"	"	"	R-05
Xylenes (total)	6.96	5.00	"	"	"	"	"	"	R-05
Methyl tert-butyl ether	7660	250	"	100	"	"	08/07/00	"	M-03
Surrogate: a,a,a-Trifluorotoluene		88.3 %		70-130	"	"	08/04/00	"	

dup





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 4255 McArthur Blvd. Project Number: 4255 McArthur Blvd./ Oakland Project Manager: Nick Sudano	Reported: 08/11/00 10:08
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**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJG0789-01) Water Sampled: 07/26/00 13:15 Received: 07/27/00 12:19									
Ferrous Iron	ND	0.0100	mg/l	1	0H02016	08/02/00	08/02/00	EPA 6010A	
MW-2 (MJG0789-02) Water Sampled: 07/26/00 14:04 Received: 07/27/00 12:19									
Ferrous Iron	3.74	0.0100	mg/l	1	0H02016	08/02/00	08/02/00	EPA 6010A	
MW-3 (MJG0789-03) Water Sampled: 07/26/00 13:38 Received: 07/27/00 12:19									
Ferrous Iron	4.04	0.0100	mg/l	1	0H02016	08/02/00	08/02/00	EPA 6010A	
MW-4 (MJG0789-04) Water Sampled: 07/26/00 14:50 Received: 07/27/00 12:19									
Ferrous Iron	0.223	0.0100	mg/l	1	0H02016	08/02/00	08/02/00	EPA 6010A	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 4255 McArthur Blvd. Project Number: 4255 McArthur Blvd./ Oakland Project Manager: Nick Sudano	Reported: 08/11/00 10:08
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**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJG0789-01) Water Sampled: 07/26/00 13:15 Received: 07/27/00 12:19									
Ferrous Iron	ND	0.0100	mg/l	1	0H02016	08/02/00	08/02/00	EPA 6010A	
MW-2 (MJG0789-02) Water Sampled: 07/26/00 14:04 Received: 07/27/00 12:19									
Ferrous Iron	3.74	0.0100	mg/l	1	0H02016	08/02/00	08/02/00	EPA 6010A	
MW-3 (MJG0789-03) Water Sampled: 07/26/00 13:38 Received: 07/27/00 12:19									
Ferrous Iron	4.04	0.0100	mg/l	1	0H02016	08/02/00	08/02/00	EPA 6010A	
MW-4 (MJG0789-04) Water Sampled: 07/26/00 14:50 Received: 07/27/00 12:19									
Ferrous Iron	0.223	0.0100	mg/l	1	0H02016	08/02/00	08/02/00	EPA 6010A	





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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

**Anions by EPA Method 300.0
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJG0789-01) Water Sampled: 07/26/00 13:15 Received: 07/27/00 12:19									
Nitrate as NO3	7.80	1.00	mg/l	10	0G28025	07/27/00	07/27/00	EPA 300.0	
Sulfate as SO4	387	50.0	"	100	"	"	"	"	
MW-2 (MJG0789-02) Water Sampled: 07/26/00 14:04 Received: 07/27/00 12:19									
Nitrate as NO3	7.59	1.00	mg/l	10	0G28025	07/27/00	07/27/00	EPA 300.0	
Sulfate as SO4	399	50.0	"	100	"	"	"	"	
MW-3 (MJG0789-03) Water Sampled: 07/26/00 13:38 Received: 07/27/00 12:19									
Nitrate as NO3	ND	1.00	mg/l	10	0G28025	07/27/00	07/27/00	EPA 300.0	
Sulfate as SO4	355	50.0	"	100	"	"	"	"	
MW-4 (MJG0789-04) Water Sampled: 07/26/00 14:50 Received: 07/27/00 12:19									
Nitrate as NO3	6.30	1.00	mg/l	10	0G28025	07/27/00	07/27/00	EPA 300.0	
Sulfate as SO4	372	50.0	"	100	0H02022	07/28/00	07/28/00	"	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 4255 McArthur Blvd. Project Number: 4255 McArthur Blvd./ Oakland Project Manager: Nick Sudano	Reported: 08/11/00 10:08
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**Anions by EPA Method 300.0
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJG0789-01) Water Sampled: 07/26/00 13:15 Received: 07/27/00 12:19									
Nitrate as NO3	7.80	1.00	mg/l	10	0G28025	07/27/00	07/27/00	EPA 300.0	
Sulfate as SO4	387	50.0	"	100	"	"	"	"	
MW-2 (MJG0789-02) Water Sampled: 07/26/00 14:04 Received: 07/27/00 12:19									
Nitrate as NO3	7.59	1.00	mg/l	10	0G28025	07/27/00	07/27/00	EPA 300.0	
Sulfate as SO4	399	50.0	"	100	"	"	"	"	
MW-3 (MJG0789-03) Water Sampled: 07/26/00 13:38 Received: 07/27/00 12:19									
Nitrate as NO3	ND	1.00	mg/l	10	0G28025	07/27/00	07/27/00	EPA 300.0	
Sulfate as SO4	355	50.0	"	100	"	"	"	"	
MW-4 (MJG0789-04) Water Sampled: 07/26/00 14:50 Received: 07/27/00 12:19									
Nitrate as NO3	6.30	1.00	mg/l	10	0G28025	07/27/00	07/27/00	EPA 300.0	
Sulfate as SO4	372	50.0	"	100	0H02022	07/28/00	07/28/00	"	





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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0H07004 - EPA 5030B [P/T]

Blank (0H07004-BLK1)

Prepared & Analyzed: 08/07/00

Purgeable Hydrocarbons	ND	50.0	ug/l							
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>	9.52		"	10.0		95.2	70-130			

LCS (0H07004-BS1)

Prepared & Analyzed: 08/07/00

Benzene	9.52	0.500	ug/l	10.0		95.2	70-130			
Toluene	10.2	0.500	"	10.0		102	70-130			
Ethylbenzene	8.87	0.500	"	10.0		88.7	70-130			
Xylenes (total)	28.9	0.500	"	30.0		96.3	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.88		"	10.0		98.8	70-130			

Matrix Spike (0H07004-MS1)

Source: MJG0855-10

Prepared & Analyzed: 08/07/00

Benzene	8.51	0.500	ug/l	10.0	ND	85.1	60-140			
Toluene	9.38	0.500	"	10.0	ND	93.8	60-140			
Ethylbenzene	8.20	0.500	"	10.0	ND	82.0	60-140			
Xylenes (total)	25.6	0.500	"	30.0	ND	85.3	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.59		"	10.0		95.9	70-130			

Matrix Spike Dup (0H07004-MSD1)

Source: MJG0855-10

Prepared & Analyzed: 08/07/00

Benzene	9.33	0.500	ug/l	10.0	ND	93.3	60-140	9.19	25	
Toluene	10.1	0.500	"	10.0	ND	101	60-140	7.39	25	
Ethylbenzene	8.92	0.500	"	10.0	ND	89.2	60-140	8.41	25	
Xylenes (total)	27.4	0.500	"	30.0	ND	91.3	60-140	6.79	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.98		"	10.0		99.8	70-130			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 4255 McArthur Blvd. Project Number: 4255 McArthur Blvd./ Oakland Project Manager: Nick Sudano	Reported: 08/11/00 10:08
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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0H07004 - EPA 5030B [P/T]

Blank (0H07004-BLK1)

Prepared & Analyzed: 08/07/00

Purgeable Hydrocarbons	ND	50.0	ug/l							
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>	9.52		"	10.0		95.2	70-130			

LCS (0H07004-BS1)

Prepared & Analyzed: 08/07/00

Benzene	9.52	0.500	ug/l	10.0		95.2	70-130			
Toluene	10.2	0.500	"	10.0		102	70-130			
Ethylbenzene	8.87	0.500	"	10.0		88.7	70-130			
Xylenes (total)	28.9	0.500	"	30.0		96.3	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.88		"	10.0		98.8	70-130			

Matrix Spike (0H07004-MS1)

Source: MJG0855-10

Prepared & Analyzed: 08/07/00

Benzene	8.51	0.500	ug/l	10.0	ND	85.1	60-140			
Toluene	9.38	0.500	"	10.0	ND	93.8	60-140			
Ethylbenzene	8.20	0.500	"	10.0	ND	82.0	60-140			
Xylenes (total)	25.6	0.500	"	30.0	ND	85.3	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.59		"	10.0		95.9	70-130			

Matrix Spike Dup (0H07004-MSD1)

Source: MJG0855-10

Prepared & Analyzed: 08/07/00

Benzene	9.33	0.500	ug/l	10.0	ND	93.3	60-140	9.19	25	
Toluene	10.1	0.500	"	10.0	ND	101	60-140	7.39	25	
Ethylbenzene	8.92	0.500	"	10.0	ND	89.2	60-140	8.41	25	
Xylenes (total)	27.4	0.500	"	30.0	ND	91.3	60-140	6.79	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.98		"	10.0		99.8	70-130			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 4255 McArthur Blvd. Project Number: 4255 McArthur Blvd./ Oakland Project Manager: Nick Sudano	Reported: 08/11/00 10:08
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch OH02016 - EPA 3005A										
Blank (OH02016-BLK1)				Prepared & Analyzed: 08/02/00						
Ferrous Iron	ND	0.0100	mg/l							
LCS (OH02016-BS1)				Prepared & Analyzed: 08/02/00						
Ferrous Iron	1.08	0.0100	mg/l	1.00		108	80-120			
Matrix Spike (OH02016-MS1)				Source: MJG0783-02		Prepared & Analyzed: 08/02/00				
Ferrous Iron	1.17	0.0100	mg/l	1.00	0.0885	108	80-120			
Matrix Spike Dup (OH02016-MSD1)				Source: MJG0783-02		Prepared & Analyzed: 08/02/00				
Ferrous Iron	1.17	0.0100	mg/l	1.00	0.0885	108	80-120	0	20	





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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

**Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0H02016 - EPA 3005A										
Blank (0H02016-BLK1)										
				Prepared & Analyzed: 08/02/00						
Ferrous Iron	ND	0.0100	mg/l							
LCS (0H02016-BS1)										
				Prepared & Analyzed: 08/02/00						
Ferrous Iron	1.08	0.0100	mg/l	1.00		108	80-120			
Matrix Spike (0H02016-MS1)										
				Source: MJG0783-02		Prepared & Analyzed: 08/02/00				
Ferrous Iron	1.17	0.0100	mg/l	1.00	0.0885	108	80-120			
Matrix Spike Dup (0H02016-MSD1)										
				Source: MJG0783-02		Prepared & Analyzed: 08/02/00				
Ferrous Iron	1.17	0.0100	mg/l	1.00	0.0885	108	80-120	0	20	





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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

**Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0G28025 - General Preparation

Blank (0G28025-BLK1)

Prepared & Analyzed: 07/27/00

Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							

LCS (0G28025-BS1)

Prepared & Analyzed: 07/27/00

Nitrate as NO3	9.71	0.100	mg/l	10.0		97.1	90-110			
Sulfate as SO4	9.65	0.500	"	10.0		96.5	90-110			

Matrix Spike (0G28025-MS1)

Source: MJG0789-01

Prepared & Analyzed: 07/27/00

Nitrate as NO3	99.7	1.00	mg/l	100	7.80	91.9	80-120			
Sulfate as SO4	546	5.00	"	100	387	159	80-120			Q-03

Matrix Spike Dup (0G28025-MSD1)

Source: MJG0789-01

Prepared & Analyzed: 07/27/00

Nitrate as NO3	99.5	1.00	mg/l	100	7.80	91.7	80-120	0.201	20	
Sulfate as SO4	541	5.00	"	100	387	154	80-120	0.920	20	Q-03

Batch 0H02022 - General Preparation

Blank (0H02022-BLK1)

Prepared & Analyzed: 07/28/00

Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							

LCS (0H02022-BS1)

Prepared & Analyzed: 07/28/00

Nitrate as NO3	9.76	0.100	mg/l	10.0		97.6	90-110			
Sulfate as SO4	9.72	0.500	"	10.0		97.2	90-110			

Matrix Spike (0H02022-MS1)

Source: MJG0819-05

Prepared & Analyzed: 07/28/00

Nitrate as NO3	133	1.00	mg/l	100	33.4	99.6	80-120			
Sulfate as SO4	123	5.00	"	100	25.8	97.2	80-120			





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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

Anions by EPA Method 300.0 - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0G28025 - General Preparation

Blank (0G28025-BLK1)

Prepared & Analyzed: 07/27/00

Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							

LCS (0G28025-BS1)

Prepared & Analyzed: 07/27/00

Nitrate as NO3	9.71	0.100	mg/l	10.0		97.1	90-110			
Sulfate as SO4	9.65	0.500	"	10.0		96.5	90-110			

Matrix Spike (0G28025-MS1)

Source: MJG0789-01

Prepared & Analyzed: 07/27/00

Nitrate as NO3	99.7	1.00	mg/l	100	7.80	91.9	80-120			
Sulfate as SO4	546	5.00	"	100	387	159	80-120			Q-03

Matrix Spike Dup (0G28025-MSD1)

Source: MJG0789-01

Prepared & Analyzed: 07/27/00

Nitrate as NO3	99.5	1.00	mg/l	100	7.80	91.7	80-120	0.201	20	
Sulfate as SO4	541	5.00	"	100	387	154	80-120	0.920	20	Q-03

Batch 0H02022 - General Preparation

Blank (0H02022-BLK1)

Prepared & Analyzed: 07/28/00

Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							

LCS (0H02022-BS1)

Prepared & Analyzed: 07/28/00

Nitrate as NO3	9.76	0.100	mg/l	10.0		97.6	90-110			
Sulfate as SO4	9.72	0.500	"	10.0		97.2	90-110			

Matrix Spike (0H02022-MS1)

Source: MJG0819-05

Prepared & Analyzed: 07/28/00

Nitrate as NO3	133	1.00	mg/l	100	33.4	99.6	80-120			
Sulfate as SO4	123	5.00	"	100	25.8	97.2	80-120			





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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

Notes and Definitions

- M-03 Sample was analyzed at a second dilution per clients request.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-03 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- R-05 The reporting limit(s) for this sample have been raised due to high levels of non-target interferents.
- 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
- RPD Relative Percent Difference





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

Project: 4255 McArthur Blvd.
Project Number: 4255 McArthur Blvd./ Oakland
Project Manager: Nick Sudano

Reported:
08/11/00 10:08

Notes and Definitions

- M-03 Sample was analyzed at a second dilution per clients request.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-03 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- R-05 The reporting limit(s) for this sample have been raised due to high levels of non-target interferents.
- 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
- RPD Relative Percent Difference



WELL GAUGING DATA

Project # 000726-43 Date 7-26-00 Client EQUINA

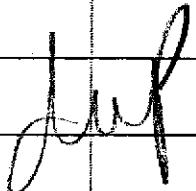
Site 4255 MACARTHUR BLVD OAKLAND

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	D.O. / ORP
MW-1	4	ORC*				7.52	23.36	TOC	
MW-2	4	STEMMER				12.82	19.61		
MW-3	4	ORC*				13.72	21.81		
MW-4	2	ORC	PULLED ORC TO GAUGE			10.09	30.30		
TB-1	4	ORC*				5.13	13.37		1.0 / -124
TB-2	4	ORC*				4.73	12.84	0.9 / -85	
* ALL WELLS GAUGED w/ ORC'S IN WELL									

WELL GAUGING DATA

Project # 000726-43 Date 7-26-00 Client EQUIVA

Site 4255 MACARTHUR BLVD OAKLAND

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	D.O. / ORP
MW-1	4	ORC*				7.52	23.36	TOC	
MW-2	4	SKIMMER				12.82	19.61		
MW-3	4	ORC*				13.72	21.81		
MW-4	2	ORC	PULLED ORC TO GAUGE			10.09	30.30		
TB-1	4	ORC*				5.13	13.37		1.0 / -124
TB-2	4	ORC*				4.73	12.84		0.9 / -85
* ALL WELLS GAUGED W/ ORC'S IN WELL									
									

EQUIVA WELL MONITORING DATA SHEET

Project #: 000726-43	Job # 204-5510-0600
Sampler: LEON G.	Date: 7-26-00
Well I.D.: mw-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 19.61	Depth to Water: 12.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>SI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump

Sampling Method: Bailer Extraction Port

Other: _____

4.4	X	3	=	13.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1359	74.4	6.8	1476	61	5	STRONG ODDOR
1400	73.2	6.7	1056	59	9	
1400	72.2	6.7	872		14	
EMPTYED SKIMMER - HEAVY SHEEN, NO FP						

Did well dewater? Yes No

Gallons actually evacuated: 14

Sampling Time: 1404 Sampling Date: 7-26-00

Sample I.D.: mw-2 Laboratory: sequoia BC Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: NITRATE, SULFATE, ALKALINITY, FERROUS IRON

D.O. (if req'd):	Pre-purge: <u>2.2</u> mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: <u>113</u> mV	Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 000726-43	Job # 204-5510-0600
Sampler: LEON G.	Date: 7-26-00
Well I.D.: mw-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 19.61	Depth to Water: 12.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>SI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump Other: _____

Sampling Method: Bailer Extraction Port Other: dup

<u>4.4</u>	X	<u>3</u>	=	<u>13.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1359	74.4	6.8	1476	61	5	STRONG ODDOR
1400	73.2	6.7	1056	59	9	
1400	72.2	6.7	872		14	
EMPTIED SKIMMER - HEAVY SLOTTED, NO FP						

Did well dewater? Yes No Gallons actually evacuated: 14

Sampling Time: 1404 Sampling Date: 7-26-00

Sample I.D.: mw-2 Laboratory: Sequoia BC Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: NITRATE, SULFATE, ALKALINITY, FERROUS IRON

D.O. (if req'd):	Pre-purge: <u>2.2</u> mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge: <u>113</u> mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000726-43</u>	Site: <u>204-5570-0600</u>
Sampler: <u>LEON G.</u>	Date: <u>7-26-00</u>
Well I.D.: <u>mw-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>30.30</u>	Depth to Water: <u>10.09</u>
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>3.2</u>	(Gals.) X	<u>3</u>	=	<u>9.6</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
<u>1434</u>	<u>70.3</u>	<u>6.8</u>	<u>1130</u>	<u>7200</u>	<u>3</u>	
<u>1439</u>	<u>69.9</u>	<u>6.7</u>	<u>1122</u>	<u>>2000</u>	<u>7</u>	
<u>1444</u>	<u>69.8</u>	<u>6.7</u>	<u>1102</u>	<u>>2000</u>	<u>10</u>	

Did well dewater? Yes No Gallons actually evacuated: 10

Sampling Time: 1450 Sampling Date: 7-26-00

Sample I.D.: mw-4 Laboratory: Sequoia Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SULFATE, ALKALINITY, NITRATE, FERROUS IRON

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

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

D.O. (if req'd): Pre-purge: 1.4 mg/L Post-purge: _____ mg/L

O.R.P. (if req'd): Pre-purge: -137 mV Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000726-43</u>	Site: <u>204-6570-0600</u>
Sampler: <u>LEON G.</u>	Date: <u>7-26-00</u>
Well I.D.: <u>mw-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>30.30</u>	Depth to Water: <u>10.09</u>
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: dup

<u>3.2</u>	(Gals.) X	<u>3</u>	=	<u>9.6</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
<u>1434</u>	<u>70.3</u>	<u>6.8</u>	<u>1130</u>	<u>>200</u>	<u>3</u>	
<u>1439</u>	<u>69.9</u>	<u>6.7</u>	<u>1122</u>	<u>>200</u>	<u>7</u>	
<u>1444</u>	<u>69.8</u>	<u>6.7</u>	<u>1102</u>	<u>>200</u>	<u>10</u>	

Did well dewater? Yes No Gallons actually evacuated: 10

Sampling Time: 1450 Sampling Date: 7-26-00

Sample I.D.: mw-4 Laboratory: Sequoia Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SULFATE, ALKALINITY, NITRATE, FERROUS IRON

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

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

D.O. (if req'd):	Pre-purge: <u>1.4</u> mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: <u>-137</u> mV	Post-purge: _____ mV