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CAMBRIA

February 8, 2002

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

FEB 14 2002

Re: **Fourth Quarter 2001 Monitoring Report**
Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250
Cambria Project #244-0233-002

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.

FOURTH QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all site wells, measured dissolved oxygen (DO) concentrations, calculated groundwater elevations, and compiled the collected data. Cambria prepared an area vicinity map (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, with supporting field notes, is included as Attachment A.

Monitoring Well Installation: On September 25, 2001 Cambria supervised the installation of three onsite monitoring wells (MW-5, MW-6, MW-7) as shown in Figure 2. The wells were developed on December 3, 2001 and sampled on December 6, 2001 as part of the regular quarterly monitoring schedule for this site. Cambria's *Monitoring Well Installation Report* was submitted on November 26, 2001.

ANTICIPATED FUTURE 2002 ACTIVITIES

Groundwater Monitoring: Blaine will gauge all wells, measure DO concentrations, and tabulate the data. Groundwater samples are collected semi-annually in the second and fourth quarters.

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

Cambria will prepare a monitoring report.

Tier 2 Risk Based Correction Action (RBCA) Analysis: Cambria is preparing a Tier 2 RBCA analysis to determine whether current onsite conditions pose a significant risk to future commercial occupants of the site. A report, including recommendations for corrective action, will be submitted in the first quarter of 2002.

Well Survey: Cambria is preparing a well survey to identify potential receptors within a ½-mile radius of the site.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Barbara Jakubow for

Melody Munz
Project Engineer

for

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

Figures: 1 - Vicinity Map
2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Tom Saberi, 1045 Airport Boulevard, Suite 12, South San Francisco, CA 94080
Matthew Dudley, Sedgwick, Detert, Moran, & Arnold, 1 Embarcadero Center, 16th Floor, San Francisco, CA 94111-3628

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02/08/02

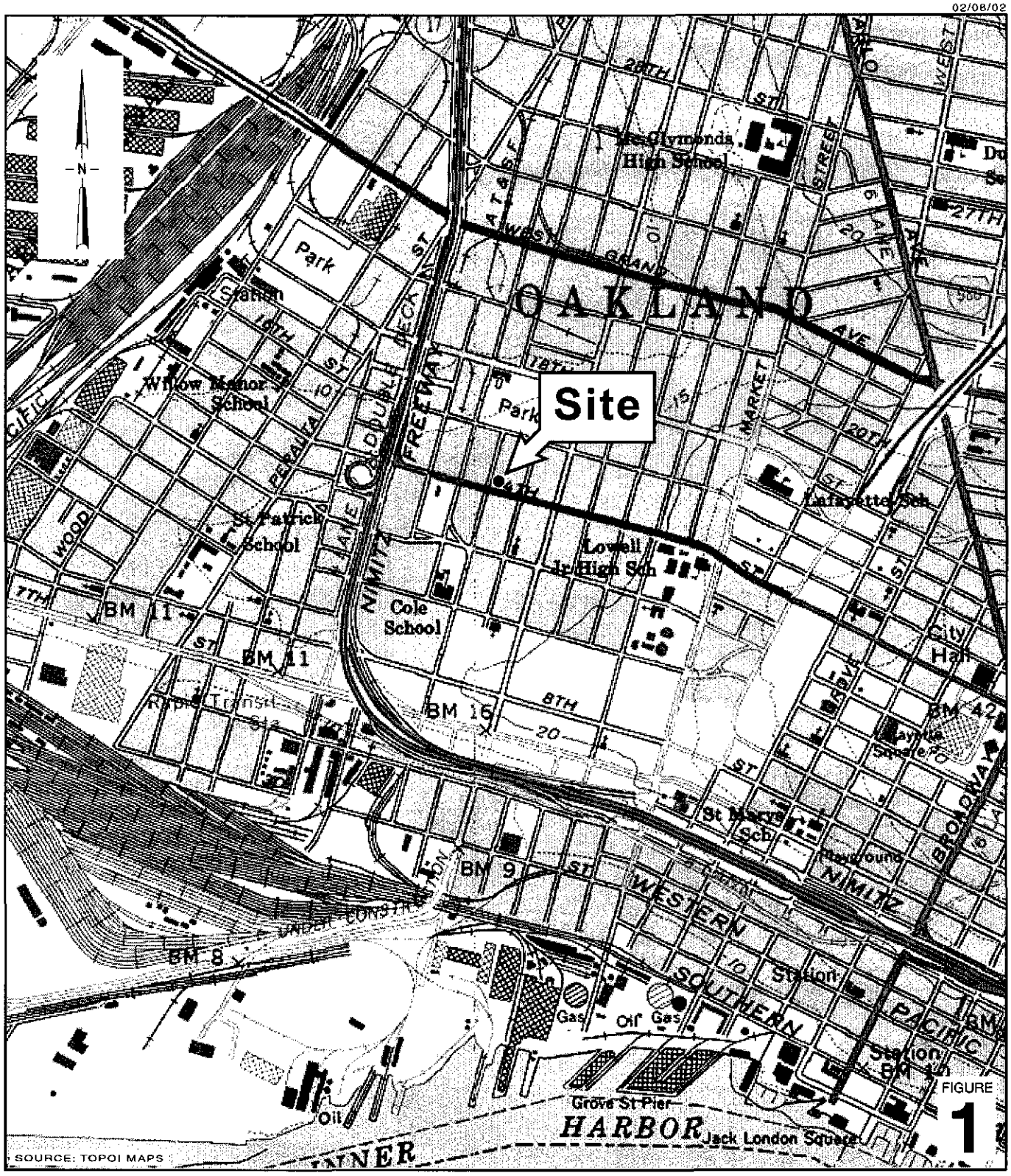


FIGURE 1

G:\OAKLAND\1230-14TH\FIGURES\VICINITY.AI

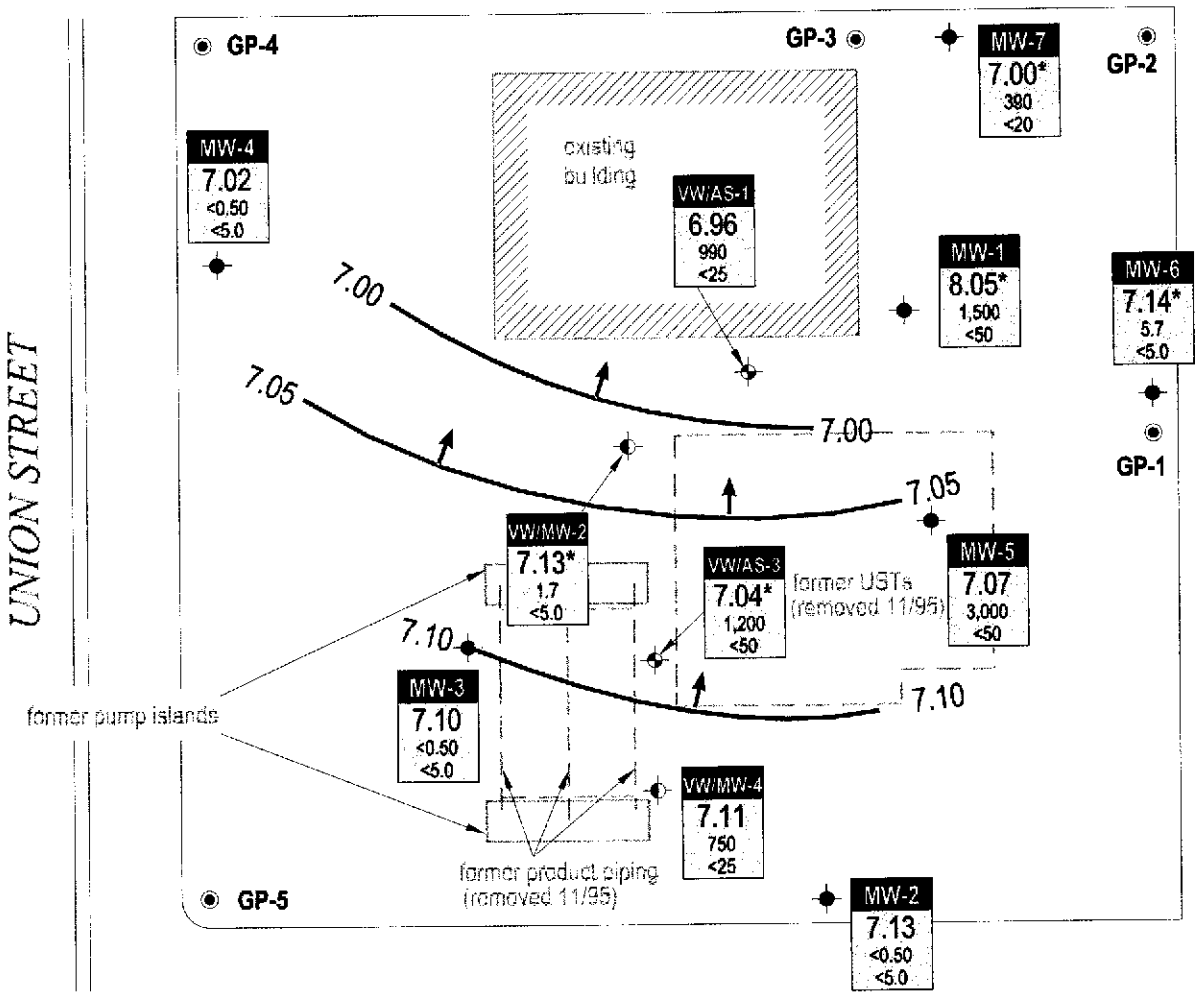
0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250

CAMBRIA

Vicinity Map



EXPLANATION

- **MW-1** — Monitoring well location
- **VW/AS-1** — Combination air sparge/soil vapor extraction well
- **VW/MW-2** — Combination soil vapor extraction well/monitoring well
- **GP-1** — Soil boring location (12/11/00)
- ***** — Data anomalous, not used for contouring
- → Groundwater flow direction
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred

Well
ELEV
Benzene
MTBE

- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260

N

0 10 20

Scale (ft)

FIGURE **2**

G:\OAKLAND\1230-14TH\FIGURES\4QM01-MP.DWG

Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250

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Groundwater Elevation Contour Map

December 6, 2001

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

January 7, 2001

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

Fourth Quarter 2001 Groundwater Monitoring at
Former Shell Service Station
1230 14th Street
Oakland, CA

Monitoring performed on December 3 and 6, 2001

Groundwater Monitoring Report **011206-SO-1**

This report covers the routine monitoring of groundwater wells at this Former Shell 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, apprioriate 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. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/mrb

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

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

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	03/25/1996	37,000	7,400	1,500	720	3,300	<500	NA	18.58	9.53	9.05	NA
MW-1	06/21/1996	35,000	9,900	460	340	3,500	890	NA	18.58	10.72	7.86	NA
MW-1	09/26/1996	19,000	8,200	510	780	790	<250	NA	18.58	12.88	5.70	NA
MW-1	12/19/1996	27,000	120	1,200	1,400	2,800	<100	NA	18.58	12.59	5.99	NA
MW-1	12/19/1996	32,000	12,000	1,300	1,600	3,100	830	NA	18.58	12.59	5.99	NA
MW-1	03/25/1997	39,000	13,000	1,600	840	3,100	730	NA	18.58	11.10	7.48	1.2
MW-1	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.42	6.16	NA
MW-1	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	13.31	5.27	0.8
MW-1	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.65	5.93	0.3
MW-1	02/19/1998	16,000	5,500	450	500	800	<500	NA	18.58	6.46	12.12	2.4
MW-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.58	6.62	11.96	1.2
MW-1	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.58	11.83	6.75	2.8
MW-1	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.58	12.01	6.57	2.6
MW-1	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.58	9.15	9.43	2.2
MW-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.58	11.22	7.36	3.8
MW-1	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.58	11.89	6.69	3.0
MW-1	12/27/1999	34,800	8,660	953	956	2,770	<1,000	NA	18.58	13.55	5.03	2.4/2.1
MW-1	01/21/2000	40,600	14,700	1,850	1,210	3,670	<500	NA	18.58	13.42	5.16	2.8
MW-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.58	8.11	10.47	0.4
MW-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.58	9.78	8.80	3.0/3.4
MW-1	04/18/2000	18,300	8,060	543	528	872	<50.0	NA	18.58	NA	NA	NA
MW-1	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.58	13.11	5.47	5.2
MW-1	10/17/2000	15,800	6,720	435	587	887	351	<66.7	18.58	12.61	5.97	1.2/0.8
MW-1	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.58	12.94	5.64	0.3
MW-1	04/27/2001	1,400	650	28	58	48	NA	<10	18.58	10.73	7.85	1.8/2.1
MW-1	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.58	12.00	6.58	1.8
MW-1	**12/06/2001**	**4,500**	**1,500**	**85**	**160**	**210**	**NA**	**<50**	**18.58**	**10.53**	**8.05**	**2.5/2.9**

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	8.19	9.71	NA
MW-2	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.94	7.96	NA
MW-2	09/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.15	5.75	NA
MW-2	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	17.90	11.70	6.20	NA
MW-2	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.25	8.65	1.8
MW-2	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.36	6.54	2.4
MW-2	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.15	6.75	0.7
MW-2	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	5.61	12.29	2.7
MW-2	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	17.90	5.58	12.32	3.2
MW-2	08/25/1998	NA	NA	NA	NA	NA	NA	NA	17.90	10.67	7.23	1.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	17.90	11.65	6.25	0.4/0.8
MW-2	03/26/1999	NA	NA	NA	NA	NA	NA	NA	17.90	8.60	9.30	0.7
MW-2	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	10.30	7.60	2.3
MW-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	17.90	10.77	7.13	1.9
MW-2	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	12.21	5.69	0.7/0.7
MW-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	17.90	7.13	10.77	1.1
MW-2	04/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	17.90	8.35	9.55	1.8/1.8
MW-2	09/21/2000	NA	NA	NA	NA	NA	NA	NA	17.90	11.76	6.14	2.1
MW-2	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	17.90	11.80	6.10	0.9/0.6
MW-2	01/09/2001	NA	NA	NA	NA	NA	NA	NA	17.90	12.14	5.76	0.7
MW-2	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	17.90	9.85	8.05	1.1/0.9
MW-2	07/03/2001	NA	NA	NA	NA	NA	NA	NA	17.90	11.20	6.70	1.2
MW-2	**12/06/2001**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**17.90**	**10.77**	**7.13**	**3.9/2.1**

WELL CONCENTRATIONS
Former Shell Service Station
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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.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	8.47	9.71	NA
MW-3	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	10.40	7.78	NA
MW-3	09/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	12.45	5.73	NA
MW-3	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.18	12.14	6.02	NA
MW-3	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	9.54	8.64	2.2
MW-3	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.66	6.52	3.6
MW-3	09/26/1997	<50	<0.50	<050	<0.50	<0.50	<2.5	NA	18.18	12.85	5.33	1.1
MW-3	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.44	6.74	0.6
MW-3	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	6.78	11.40	3.6
MW-3	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.18	11.09	7.09	1.2
MW-3	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	18.18	11.84	6.34	0.9/0.6
MW-3	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.18	8.57	9.61	0.8
MW-3	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	10.61	7.57	4.8
MW-3	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.18	11.53	6.65	1.4
MW-3	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	12.35	5.83	1.4/2.5
MW-3	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.17	7.36	10.81	5.8
MW-3	04/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	19.3	NA	18.17	8.39	9.78	6.5/5.1
MW-3	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.17	12.01	6.16	3.0
MW-3	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.17	12.10	6.07	2.0/1.0
MW-3	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.17	12.43	5.74	1.9
MW-3	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.17	10.10	8.07	2.3/2.4
MW-3	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.17	11.45	6.72	1.4
MW-3	**12/06/2001**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**18.17**	**11.07**	**7.10**	**2.8/3.9**
MW-4	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.20	8.81	NA

WELL CONCENTRATIONS
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Wic #204-5508-3103

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.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	10.25	7.76	NA
MW-4	09/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.29	5.72	NA
MW-4	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.01	12.47	5.54	NA
MW-4	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.44	8.57	1.8
MW-4	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4 (D)	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.75	5.26	2.1
MW-4	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4 (D)	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	5.59	12.42	6.5
MW-4	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.01	5.65	12.36	2.6
MW-4	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.01	10.98	7.03	2.4
MW-4	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	18.01	11.83	6.18	1.3/1.2
MW-4	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.01	8.40	9.61	1.9
MW-4	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	10.53	7.48	7.6
MW-4	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.01	11.03	6.98	2.6
MW-4	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	12.53	5.48	1.9/0.8
MW-4	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.01	7.00	11.01	6.5
MW-4	04/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.01	8.57	9.44	5.1/5.1
MW-4	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.01	12.05	5.96	3.0
MW-4	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.01	11.96	6.05	5.5/1.2
MW-4	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.01	12.33	5.68	2.1
MW-4	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.01	9.96	8.05	5.3/3.8
MW-4	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.01	11.35	6.66	4.5
MW-4	**12/06/2001**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**18.01**	**10.99**	**7.02**	**10.23/6.5**
MW-5	**12/03/2001**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**18.47**	**11.86**	**6.61**	**NA**

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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.)	GW Elevation (MSL)	DO Reading (ppm)
MW-5	**12/06/2001**	**31,000**	**3,000**	**2,000**	**1,100**	**3,000**	**NA**	**<50**	**18.47**	**11.40**	**7.07**	**3.1/3.2**
MW-6	**12/03/2001**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**18.84**	**12.19**	**6.65**	**NA**
MW-6	**12/06/2001**	**76**	**5.7**	**3.8**	**1.4**	**7.0**	**NA**	**<5.0**	**18.84**	**11.70**	**7.14**	**6.3/6.1**
MW-7	**12/03/2001**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**19.20**	**12.66**	**6.54**	**NA**
MW-7	**12/06/2001**	**1,800**	**390**	**<2.0**	**6.2**	**<2.0**	**NA**	**<20**	**19.20**	**12.20**	**7.00**	**3.9/3.8**
VW/MW-2	03/25/1996	13,000	900	920	180	1,500	<250	NA	18.30	9.04	9.26	NA
VW/MW-2	06/21/1996	27,000	4,100	1,100	1,400	3,200	700	NA	18.30	10.48	7.82	NA
VW/MW-2	09/26/1996	27,000	5,300	1,900	980	2,200	<500	NA	18.30	12.52	5.78	NA
VW/MW-2 (D)	09/26/1996	29,000	5,800	2,200	1,100	2,500	<250	NA	18.30	12.52	5.78	NA
VW/MW-2	12/19/1996	50,000	6,200	5,100	1,700	5,600	590	NA	18.30	12.42	5.88	NA
VW/MW-2	03/25/1997	210	5.6	<0.50	0.52	<0.50	14	NA	18.30	9.83	8.47	2.0
VW/MW-2 (D)	03/25/1997	250	1.7	0.58	0.51	<0.50	4.7	NA	18.30	9.83	8.47	2.0
VW/MW-2	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.43	5.87	NA
VW/MW-2	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.98	5.32	0.9
VW/MW-2	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.20	6.10	0.4
VW/MW-2	02/19/1998	<50	1.5	<0.50	<0.50	0.71	<2.5	NA	18.30	5.83	12.47	3.6
VW/MW-2	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.30	5.80	12.50	1.0
VW/MW-2	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.30	11.72	6.58	4.8
VW/MW-2	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.30	11.69	6.61	2.7
VW/MW-2	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.30	8.75	9.55	2.8
VW/MW-2	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.30	10.72	7.58	4.7
VW/MW-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.30	12.24	6.06	4.9
VW/MW-2	12/27/1999	13,500	1,330	1,310	490	1,400	<250	NA	18.30	13.92	4.38	2.1/1.9
VW/MW-2	01/21/2000	12,100	2,200	1,080	429	1,120	<250	NA	18.30	13.26	5.04	2.8

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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.)	GW Elevation (MSL)	DO Reading (ppm)
VW/MW-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.28	7.87	10.41	3.7
VW/MW-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.28	9.65	8.63	3.7/4.1
VW/MW-2	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.28	NA	NA	NA
VW/MW-2	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.28	12.75	5.53	6.2
VW/MW-2	10/17/2000	4,070	763	589	214	501	<50.0	NA	18.28	12.21	6.07	0.8/0.7
VW/MW-2	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.28	12.51	5.77	0.7
VW/MW-2	04/27/2001	80	5.7	<0.50	2.7	4.9	NA	<0.50	18.28	10.21	8.07	2.3/2.8
VW/MW-2	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.28	11.60	6.68	0.6
VW/MW-2	**12/06/2001**	**160**	**1.7**	**1.0**	**1.8**	**4.6**	**NA**	**<5.0**	**18.28**	**11.15**	**7.13**	**3.7/2.3**
VW/MW-4	03/25/1996	83,000	6,500	7,000	2,000	11,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4 (D)	03/25/1996	84,000	6,400	7,000	2,100	12,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4	06/21/1996	110,000	14,000	15,000	3,700	17,000	1,700	NA	18.14	10.38	7.76	NA
VW/MW-4 (D)	06/21/1996	100,000	12,000	12,000	2,900	13,000	<1,000	NA	18.14	10.38	7.76	NA
VW/MW-4	09/26/1996	52,000	13,000	2,700	2,100	3,200	<500	NA	18.14	12.43	5.71	NA
VW/MW-4	12/19/1996	75,000	15,000	6,600	3,000	7,600	<1,250	NA	18.14	11.87	6.27	NA
VW/MW-4	03/25/1997	56,000	4,700	1,500	2,500	6,300	580	NA	18.14	9.60	8.54	2.4
VW/MW-4	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.36	5.78	NA
VW/MW-4	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.82	5.32	0.4
VW/MW-4	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.15	5.99	0.3
VW/MW-4	02/19/1998	4,100	320	40	44	520	<50	NA	18.14	5.85	12.29	1.8
VW/MW-4 (D)	02/19/98	4,300	340	44	47	540	<50	NA	18.14	5.85	12.29	1.8
VW/MW-4	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.14	5.87	12.27	1.8
VW/MW-4	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.14	10.96	7.18	2.5
VW/MW-4	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.14	11.28	6.86	0.9
VW/MW-4	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.14	8.45	9.69	1.9
VW/MW-4	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.14	9.70	8.44	3.6

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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.)	GW Elevation (MSL)	DO Reading (ppm)
VW/MW-4	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.14	11.78	6.36	2.6
VW/MW-4	12/27/1999	33,900	3,740	2,000	1,130	5,090	587	NA	18.14	12.63	5.51	0.4/0.2
VW/MW-4	01/21/200	13,900	1,560	568	227	1,990	<500	21.0a	18.14	13.07	5.07	1.0
VW/MW-4	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.13	7.82	10.31	0.9
VW/MW-4	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.13	9.18	8.95	1.4/1.9
VW/MW-4	04/18/2000	757	103	8.59	30.8	84.2	<25.0	NA	18.13	NA	NA	NA
VW/MW-4	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.13	12.18	5.95	5.0
VW/MW-4	10/17/2000	8,360	2,060	391	468	1,170	147	NA	18.13	12.03	6.10	0.7/0.8
VW/MW-4	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.13	12.42	5.71	0.9
VW/MW-4	04/27/2001	7,100	2,300	50	460	250	NA	<10	18.13	10.13	8.00	1.0/1.4
VW/MW-4	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.13	11.42	6.71	1.2
VW/MW-4	**12/06/2001**	**7,700**	**750**	**90**	**300**	**350**	**NA**	**<25**	**18.13**	**11.02**	**7.11**	**2.5/1.9**
VW/AS-1	03/25/1996	NA	NA	NA	NA	NA	NA	NA	18.60	8.98	9.62	NA
VW/AS-1	06/21/1996	NA	NA	NA	NA	NA	NA	NA	18.60	10.95	7.65	NA
VW/AS-1	09/26/1996	NA	NA	NA	NA	NA	NA	NA	18.60	12.98	5.62	NA
VW/AS-1	12/19/1996	NA	NA	NA	NA	NA	NA	NA	18.60	12.67	5.93	NA
VW/AS-1	03/25/1997	NA	NA	NA	NA	NA	NA	NA	18.60	10.12	8.48	NA
VW/AS-1	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	12.34	6.26	NA
VW/AS-1	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	13.40	5.20	NA
VW/AS-1	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.60	11.96	6.64	5.2
VW/AS-1	02/19/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.22	12.38	1.3
VW/AS-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.20	12.40	1.0
VW/AS-1	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.60	11.59	7.01	1.6
VW/AS-1	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.60	11.74	6.86	1.3
VW/AS-1	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.60	9.20	9.40	1.3
VW/AS-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.08	7.52	2.1

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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.)	GW Elevation (MSL)	DO Reading (ppm)
VW/AS-1	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.94	6.66	1.9
VW/AS-1	12/27/1999	8,940	2,000	95.7	1,200	570	606	NA	18.60	11.01	7.59	1.6/1.8
VW/AS-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.59	7.35	11.24	NA
VW/AS-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.59	9.08	9.51	1.9/2.0
VW/AS-1	04/18/2000	20,800	6,550	1,220	2,270	1,720	<250	NA	18.59	NA	NA	NA
VW/AS-1	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.59	11.98	6.61	2.1
VW/AS-1	10/17/2000	38,400	7,240	5,980	1,960	5,730	534	72.4	18.59	12.62	5.97	2.5/1.0
VW/AS-1	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.59	13.03	5.56	1.9
VW/AS-1	04/27/2001	34,000	8,000	2,100	2,500	2,000	NA	<25	18.59	10.71	7.88	2.9/2.1
VW/AS-1	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.59	12.03	6.56	2.0
VW/AS-1	**12/06/2001**	**6,000**	**990**	**35**	**820**	**59**	**NA**	**<25**	**18.59**	**11.63**	**6.96**	**1.2/0.8**
VW/AS-3	03/25/1996	NA	NA	NA	NA	NA	NA	NA	18.17	8.50	9.67	NA
VW/AS-3	06/21/1996	NA	NA	NA	NA	NA	NA	NA	18.17	10.42	7.75	NA
VW/AS-3	09/26/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.49	5.68	NA
VW/AS-3	12/19/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.28	5.89	NA
VW/AS-3	03/25/1997	NA	NA	NA	NA	NA	NA	NA	18.17	9.61	8.56	NA
VW/AS-3	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.80	6.37	NA
VW/AS-3	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	12.89	5.28	NA
VW/AS-3	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.38	6.79	1.8
VW/AS-3	02/19/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.24	11.93	1.3
VW/AS-3	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.25	11.92	1.2
VW/AS-3	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.43	6.74	1.3
VW/AS-3	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.63	6.54	1.7
VW/AS-3	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.17	8.92	9.25	1.5
VW/AS-3	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	10.71	7.46	2.5
VW/AS-3	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	11.78	6.39	1.5

WELL CONCENTRATIONS
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Wic #204-5508-3103

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.)	GW Elevation (MSL)	DO Reading (ppm)
VW/AS-3	12/27/1999	488	47.9	2.60	16.9	8.50	35.4	NA	18.17	12.57	5.60	1.5/2.1
VW/AS-3	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.14	4.82	13.32	NA
VW/AS-3	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.14	8.69	9.45	2.0/2.4
VW/AS-3	04/18/2000	3,110	871	<5.00	141	56.8	78.2	NA	18.14	NA	NA	NA
VW/AS-3	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.14	11.65	6.49	2.5
VW/AS-3	10/17/2000	7,730	2,700	<50.0	542	344	<250	42.1	18.14	12.13	6.01	1.6/1.0
VW/AS-3	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.14	12.51	5.63	2.2
VW/AS-3	04/27/2001	14,000	3,900	62	690	560	NA	46	18.14	10.20	7.94	2.8/1.6
VW/AS-3	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.14	11.55	6.59	2.6
VW/AS-3	**12/06/2001**	**5,000**	**1,200**	**19**	**380**	**320**	**NA**	**<50**	**18.14**	**11.10**	**7.04**	**0.9/1.1**

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8015.

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

NA = Not applicable

ug/L = Parts per billion

ppm = Parts per million

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

n/n = Pre-purge/Post-purge DO Readings

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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.)	GW Elevation (MSL)	DO Reading (ppm)

Notes:
a = Sample was analyzed outside of the EPA recommended holding time.

KIFF ANALYTICAL LLC

Report Number : 23770
Date : 12/18/2001

Nick Sudano
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 11 Water Samples
Project Name : 1230 14th Street, Oakland
Project Number : 011206-SO-1
P.O. Number : 97088250

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 23770

Date : 12/18/2001

Project Name : **1230 14th Street, Oakland**

Project Number : **011206-SO-1**

Sample : **MW-1** Matrix : Water Lab Number : 23770-01

Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1500**	5.0	ug/L	EPA 8260B	12/11/2001
Toluene	**85**	5.0	ug/L	EPA 8260B	12/11/2001
Ethylbenzene	**160**	5.0	ug/L	EPA 8260B	12/11/2001
Total Xylenes	**210**	5.0	ug/L	EPA 8260B	12/11/2001
Methyl-t-butyl ether (MTBE)	**< 50**	50	ug/L	EPA 8260B	12/11/2001
TPH as Gasoline	**4500**	500	ug/L	EPA 8260B	12/11/2001
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	12/11/2001
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/11/2001

Sample : **MW-2** Matrix : Water Lab Number : 23770-02

Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/9/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/9/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/9/2001
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/9/2001

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 23770
Date : 12/18/2001

Project Name : **1230 14th Street, Oakland**
Project Number : **011206-SO-1**

Sample : **MW-3** Matrix : Water Lab Number : 23770-03
Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/9/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/9/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/9/2001
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/9/2001

Sample : **MW-4** Matrix : Water Lab Number : 23770-04
Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/9/2001
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/9/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/9/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/9/2001
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/9/2001

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 23770
Date : 12/18/2001

Project Name : **1230 14th Street, Oakland**
Project Number : **011206-SO-1**

Sample : **MW-5** Matrix : Water Lab Number : 23770-05
Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**3000**	10	ug/L	EPA 8260B	12/16/2001
Toluene	**2000**	10	ug/L	EPA 8260B	12/16/2001
Ethylbenzene	**1100**	5.0	ug/L	EPA 8260B	12/16/2001
Total Xylenes	**3000**	10	ug/L	EPA 8260B	12/16/2001
Methyl-t-butyl ether (MTBE)	**< 50**	50	ug/L	EPA 8260B	12/16/2001
TPH as Gasoline	**31000**	500	ug/L	EPA 8260B	12/16/2001
Toluene - d8 (Surr)	95.5		% Recovery	EPA 8260B	12/16/2001
4-Bromofluorobenzene (Surr)	96.1		% Recovery	EPA 8260B	12/16/2001

Sample : **MW-6** Matrix : Water Lab Number : 23770-06
Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**5.7**	0.50	ug/L	EPA 8260B	12/11/2001
Toluene	**3.8**	0.50	ug/L	EPA 8260B	12/11/2001
Ethylbenzene	**1.4**	0.50	ug/L	EPA 8260B	12/11/2001
Total Xylenes	**7.0**	0.50	ug/L	EPA 8260B	12/11/2001
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/11/2001
TPH as Gasoline	**76**	50	ug/L	EPA 8260B	12/11/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/11/2001
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/11/2001

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 23770
Date : 12/18/2001

Project Name : **1230 14th Street, Oakland**
Project Number : **011206-SO-1**

Sample : **MW-7** Matrix : Water Lab Number : 23770-07
Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**390**	2.0	ug/L	EPA 8260B	12/13/2001
Toluene	**< 2.0**	2.0	ug/L	EPA 8260B	12/13/2001
Ethylbenzene	**6.2**	2.0	ug/L	EPA 8260B	12/13/2001
Total Xylenes	**< 2.0**	2.0	ug/L	EPA 8260B	12/13/2001
Methyl-t-butyl ether (MTBE)	**< 20**	20	ug/L	EPA 8260B	12/13/2001
TPH as Gasoline	**1800**	200	ug/L	EPA 8260B	12/13/2001
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	12/13/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/13/2001

Sample : **VW/MW-2** Matrix : Water Lab Number : 23770-08
Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1.7**	0.50	ug/L	EPA 8260B	12/9/2001
Toluene	**1.0**	0.50	ug/L	EPA 8260B	12/9/2001
Ethylbenzene	**1.8**	0.50	ug/L	EPA 8260B	12/9/2001
Total Xylenes	**4.6**	0.50	ug/L	EPA 8260B	12/9/2001
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/9/2001
TPH as Gasoline	**160**	50	ug/L	EPA 8260B	12/9/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/9/2001
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/9/2001

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 23770
Date : 12/18/2001

Project Name : **1230 14th Street, Oakland**
Project Number : **011206-SO-1**

Sample : **VW/MW-4** Matrix : Water Lab Number : 23770-09
Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**750**	2.5	ug/L	EPA 8260B	12/13/2001
Toluene	**90**	2.5	ug/L	EPA 8260B	12/13/2001
Ethylbenzene	**300**	2.5	ug/L	EPA 8260B	12/13/2001
Total Xylenes	**350**	2.5	ug/L	EPA 8260B	12/13/2001
Methyl-t-butyl ether (MTBE)	**< 25**	25	ug/L	EPA 8260B	12/13/2001
TPH as Gasoline	**7700**	250	ug/L	EPA 8260B	12/13/2001
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	12/13/2001
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/13/2001

Sample : **VW/AS-1** Matrix : Water Lab Number : 23770-10
Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**990**	25	ug/L	EPA 8260B	12/10/2001
Toluene	**35**	2.5	ug/L	EPA 8260B	12/13/2001
Ethylbenzene	**820**	25	ug/L	EPA 8260B	12/10/2001
Total Xylenes	**59**	2.5	ug/L	EPA 8260B	12/13/2001
Methyl-t-butyl ether (MTBE)	**< 25**	25	ug/L	EPA 8260B	12/13/2001
TPH as Gasoline	**6000**	250	ug/L	EPA 8260B	12/13/2001
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	12/13/2001
4-Bromofluorobenzene (Surr)	99.6		% Recovery	EPA 8260B	12/13/2001

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 23770

Date : 12/18/2001

Project Name : **1230 14th Street, Oakland**

Project Number : **011206-SO-1**

Sample : **VW/AS-3** Matrix : Water Lab Number : 23770-11

Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1200**	5.0	ug/L	EPA 8260B	12/11/2001
Toluene	**19**	5.0	ug/L	EPA 8260B	12/11/2001
Ethylbenzene	**380**	5.0	ug/L	EPA 8260B	12/11/2001
Total Xylenes	**320**	5.0	ug/L	EPA 8260B	12/11/2001
Methyl-t-butyl ether (MTBE)	**< 50**	50	ug/L	EPA 8260B	12/11/2001
TPH as Gasoline	**5000**	500	ug/L	EPA 8260B	12/11/2001
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	12/11/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/11/2001

Approved By: Joel Kiff

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Report Number : 23770

Date : 12/18/2001

QC Report : Method Blank Data

Project Name : **1230 14th Street, Oakland**

Project Number : **011206-SO-1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	12/9/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/9/2001
Toluene - d8 (Surr)	98.9		%	EPA 8260B	12/9/2001
4-Bromofluorobenzene (Surr)	93.3		%	EPA 8260B	12/9/2001
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	12/9/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/9/2001
Toluene - d8 (Surr)	101		%	EPA 8260B	12/9/2001
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	12/9/2001
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/10/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	12/10/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/10/2001
Toluene - d8 (Surr)	101		%	EPA 8260B	12/10/2001
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	12/10/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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Report Number : 23770

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/18/2001

Project Name : **1230 14th Street, Oakland**

Project Number : **011206-SO-1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	23768-01	<0.50	19.6	19.9	20.0	20.9	ug/L	EPA 8260B	12/9/2001	102	105	2.88	70-130	25
Toluene	23768-01	<0.50	19.6	19.9	20.4	21.4	ug/L	EPA 8260B	12/9/2001	104	108	3.54	70-130	25
Tert-Butanol	23768-01	5.3	97.8	99.4	114	115	ug/L	EPA 8260B	12/9/2001	111	111	0.576	70-130	25
Methyl-t-Butyl Ether	23768-01	25	19.6	19.9	43.2	44.5	ug/L	EPA 8260B	12/9/2001	90.9	96.1	5.54	70-130	25
Benzene	23704-01	<0.50	40.0	40.0	43.7	42.8	ug/L	EPA 8260B	12/9/2001	109	107	2.06	70-130	25
Toluene	23704-01	<0.50	40.0	40.0	44.5	43.6	ug/L	EPA 8260B	12/9/2001	111	109	2.09	70-130	25
Tert-Butanol	23704-01	<5.0	200	200	203	210	ug/L	EPA 8260B	12/9/2001	102	105	2.97	70-130	25
Methyl-t-Butyl Ether	23704-01	<0.50	40.0	40.0	45.1	44.9	ug/L	EPA 8260B	12/9/2001	113	112	0.378	70-130	25
Benzene	23766-01	<0.50	40.0	40.0	41.4	40.4	ug/L	EPA 8260B	12/11/200	104	101	2.62	70-130	25
Toluene	23766-01	<0.50	40.0	40.0	41.6	40.6	ug/L	EPA 8260B	12/11/200	104	102	2.48	70-130	25
Tert-Butanol	23766-01	<5.0	200	200	186	195	ug/L	EPA 8260B	12/11/2001	93.2	97.6	4.70	70-130	25
Methyl-t-Butyl Ether	23766-01	0.72	40.0	40.0	43.5	43.4	ug/L	EPA 8260B	12/11/200	107	107	0.421	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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Report Number : 23770

QC Report : Laboratory Control Sample (LCS)

Date : 12/18/2001

Project Name : **1230 14th Street, Oakland**

Project Number : **011206-SO-1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	12/9/2001	94.7	70-130
Toluene	20.0	ug/L	EPA 8260B	12/9/2001	96.1	70-130
Tert-Butanol	100	ug/L	EPA 8260B	12/9/2001	103	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	12/9/2001	92.1	70-130
Benzene	40.0	ug/L	EPA 8260B	12/9/2001	104	70-130
Toluene	40.0	ug/L	EPA 8260B	12/9/2001	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/9/2001	97.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/9/2001	106	70-130
Benzene	40.0	ug/L	EPA 8260B	12/10/200	105	70-130
Toluene	40.0	ug/L	EPA 8260B	12/10/200	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/10/200	98.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/10/200	108	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

LAB: KiFP

Lab Identification (if necessary):

Address:

City, State, Zip:

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

23770

INCIDENT NUMBER (S&E ONLY): 9 7 0 8 8 2 5 0

SAR or CRMT NUMBER (TS/CRMT):

DATE: 12/6/01

PAGE: 1 of 2

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS (Street and City):	GLOBAL ID NO.:
Blaine Tech Services	BTSS	1230 14th Street, Oakland	T0600101691

ADDRESS:	EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
1680 Rogers Avenue, San Jose, CA 95112	Anni Kreml	510-420-3335	akreml@cambria-env.com	BTS # 011206-SO-1

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:	SAMPLER NAME(S) (Print):
Nick Sudano	408-573-0555	408-573-7771	nsudano@blainetech.com	Shawn O'Bryan

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GeoTracker EDF ☐ MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8250B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note							FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-1	12/6/01	1414	W	3	X	X	X																-01
	MW-2		1306			X	X	X																-02
	MW-3		1320			X	X	X																-03
	MW-4		1332			X	X	X																-04
	MW-5		1414			X	X	X																-05
	MW-6		1458			X	X	X																-06
	MW-7		1439			X	X	X																-07
	~~MW-2~~ MW-2		1346			X	X	X																-08
	~~MW-4~~ MW-4		1359			X	X	X																-09
	~~TW-1~~ TW/AS-1		1231			X	X	X																-16

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received by: (Signature) John Cuttle / Kiff Analytical

Date: 12/7/01 Time: 11:48

Date: Time:

Date: 120701 Time: 1148

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&O Graphic (7141 Rev.07/0

LAB: KIEP

EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna

23770

INCIDENT NUMBER (S&E ONLY): 97088250

SAP or CRMT NUMBER (TS/CRMT):

DATE: 12/6/01

PAGE: 2 of 2

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS (Street and City):	GLOBAL ID NO.:
Blaine Tech Services	BTSS	1230 14th Street, Oakland	T0600101691

ADDRESS:	PROJECT CONTACT (Hardcopy or PDF Report to):
1680 Rogers Avenue, San Jose, CA 95112	Nick Sudano

TELEPHONE:	FAX:	E-MAIL:
408-573-0555	408-573-7771	nsudano@blainetech.com

EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
Anni Kreml	510-420-3336	akreml@cambria-env.com	BTS # 011206-SO-1

SAMPLER NAME(S) (Print): Shawn O'Bryan

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note								FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	VW/AS-3	12/6/01	1200	W	3	X	X	X																	-11

Relinquished by: (Signature)	Received by: (Signature)	Date: 12/7/01	Time: 11:48
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttle / Kiff Analytical	Date: 120701	Time: 1148

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

O&O Graphic 7141 800-9700

WELL GAUGING DATA

Project # 011206-50-1 Date 12/6/01 Client Equiva

Site 97088260 1230 14th St., 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	
MW-1	2					10.53	20.87	TOC	
MW-2	2					10.77	21.54		
MW-3	2					11.07	19.34		
MW-4	2					10.99	19.80		
MW-5	4					11.40	19.63		
MW-6	4					11.70	19.62		
MW-7	4					12.20	19.70		
VW/MW-2	2					11.15	20.20		
VW/MW-4	2					11.02	18.54		
VW/AS-1	1					11.63	19.51		out of Flush
VW/AS-3	1					11.10	19.60	↓	out of Flush

EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-50-1	Site: 9708 8250
Sampler: O'Bryan	Date: 12/6/01
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 20.87	Depth to Water: 10.53
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer; Disposable Bailer; Middleburg; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

1.7 (Gals.) X 3 = 5.1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1103	65.1	6.6	1571	>200	1.75	Black
1401	64.8	6.5	1509	>200	3.5	
1410	65.2	6.4	1492	162	5.25	Clearing

Did well dewater? Yes (No) Gallons actually evacuated: 5.25

Sampling Time: 1410 Sampling Date: 12/6/01

Sample I.D.: MW-1 Laboratory: (Kiff) Sequoia Other_____

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

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:	1.15 mg/L	Post-purge:	0.9	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-SO-1	Site: 9708 8250
Sampler: O'Bryan	Date: 12/6/01
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: ~~30.21.54~~	Depth to Water: ~~10.53~~ 10.77
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: (Bailer) Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: (Bailer) Disposable Bailer / Extraction Port / Dedicated Tubing / Other:_____

1.7 (Gals.) X 3 = 5.1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1258	66.1	6.8	914	7200	1.75	
1300	67.6	6.6	795	~~7200~~	3.5	
1302	66.9	6.5	765	7200	5.25	

Did well dewater? Yes (No) Gallons actually evacuated: 5.25

Sampling Time: 1306 Sampling Date: 12/6/01

Sample I.D.: MW-2 Laboratory: (Kiff) Sequoia Other_____

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

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:	3.9 mg/L	Post-purge:	2.1	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-50-1	Site: 9708 8250
Sampler: O'Bryan	Date: 12/6/01
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.34	Depth to Water: 11.07
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: (Bailer) Disposable Bailer; Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: (Bailer) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

1.5 (Gals.) X 3 = 3.9 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1313	66.6	6.5	925	>200	1.5	
1315	67.2	6.3	921	>200	3	
1316	66.2	6.3	923	>200	4	

Did well dewater? Yes (No) Gallons actually evacuated: 4

Sampling Time: 1320 Sampling Date: 12/6/01

Sample I.D.: MW-3 Laboratory: (Kiff) Sequoia Other ____

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

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:	1.8 mg/L	Post-purge:	3.9	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-SO-1	Site: 9708 8250
Sampler: O'Bryan	Date: 12/6/01
Well I.D.: ~~MW-5~~ MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.80	Depth to Water: 10.99
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: (Bailer) Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ___

Sampling Method: (Bailer) Disposable Bailer / Extraction Port / Dedicated Tubing / Other ___

1.24 (Gals.) X	3	= 4.2 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1227	67.4	6.6	445	>200	1.5	
1228	68.1	6.5	291	>200	3	
1229	67.1	6.5	244	>200	4.25	

Did well dewater? Yes (No) Gallons actually evacuated: 4.25

Sampling Time: 1332 Sampling Date: 12/6/01

Sample I.D.: MW-4 Laboratory: (Kiff) Sequoia Other ___

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

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:	10.23 Double Checked mg/L	Post-purge:	6.5 mg/L
O.R.P. (if req'd):	Pre-purge:	Calibration mV	Post-purge:	mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-SO-1	Site: TORESCO
Sampler: O'Bryan	Date: 12/6/07
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 19.63	Depth to Water: 11.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer, Disposable Bailer, Middleburg, ~~Electric Submersible~~, Waterra, Peristaltic, Extraction Pump, Other

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

5.3 (Gals.) X 3 = 15.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1441	66.3	6.1	1575	>200	7.5	
1443	66.9	6.5	1623	>200	12.5	
1444	66.7	6.6	1630	>200	17.5	

Did well dewater? Yes (No)		Gallons actually evacuated:	17.5
Sampling Time: 1449		Sampling Date:	12/6/07
Sample I.D.: MW-5		Laboratory: (Kiff) Sequoia Other	
Analyzed for: TPH-G BTEX MTBE TPH-D Other:			
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)	3.1 mg/L	Post-purge:	3.2 mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-SO-1	Site: 9708 8250
Sampler: C Morgan	Date: 12/6/01
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.62	Depth to Water: 11.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer / Disposable Bailer / Middleburg / (Electric Submersible) / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: (Bailer) / Disposable Bailer / Extraction Port / Dedicated Tubing / Other ____

5.1 (Gals.) X 3 = 15.3 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1453	65.1	6.7	846	105	7.5	
1454	65.1	6.8	736	>200	12.5	
1455	64.9	6.7	788	>200	17.5	

Did well dewater? Yes (No) Gallons actually evacuated: 17.5

Sampling Time: 1458 Sampling Date: 12/6/01

Sample I.D.: MW-6 Laboratory: (Kiff) Sequoia Other ____

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

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:	6.3 mg/L	Post-purge:	6.1	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-SO-1	Site: 9708 8250
Sampler: O'Bryan	Date: 12/6/01
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 12.20	Depth to Water: 9.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: ~~Bailer~~ / Disposable Bailer / Middleburg / (Electric Submersible) / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: (Bailer) / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:_____

4.0 (Gals.) X 3 = 14.7 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1433	63.9	6.6	1204	>200	5	
1434	64.7	6.5	1220	>200	10	
1435	65.0	6.4	1166	>200	15	

Did well dewater? Yes (No) Gallons actually evacuated: 15

Sampling Time: 1439 Sampling Date: 12/6/01

Sample I.D.: MW-7 Laboratory: (Kiff) Sequoia Other_____

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

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:	3.9 mg/L	Post-purge:	3.8 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-50-1	Site: 9708 8250
Sampler: O'Bryan	Date: 12/6/01
Well I.D.: VW/MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 20.20	Depth to Water: 11.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: (Bailer) Disposable Bailer; Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: (Bailer) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

1 Case Volume	(Gals.) X	Specified Volumes	=	Calculated Volume	Gals.
1.4		3		4.2	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1339	66.2	6.5	467	>200	1.5	
1341	66.6	6.4	469	>200	3	
1342	66.6	6.5	471	>200	4.25	

Did well dewater? Yes (No) Gallons actually evacuated: 4.25

Sampling Time: 1346 Sampling Date: 12/6/01

Sample I.D.: VW/MW-2 Laboratory: (Kiff) Sequoia Other ____

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

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:	3.37 mg/L	Post-purge:	2.3	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-50-1	Site: 9708 8250
Sampler: O'Bryan	Date: 12/6/01
Well I.D.: VW/MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 18.54	Depth to Water: 11.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: (Bailer) Waterra Sampling Method: (Bailer)
Disposable Bailer Peristaltic Disposable Bailer
Middleburg Extraction Pump Extraction Port
Electric Submersible Other_____ Dedicated Tubing
Other:

1.2 (Gals.) X 3 = 3.6 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1353	66.3	6.5	1460	788	1.25	Bleach
1354	66.9	6.5	1506	720	2.5	↓
1355	67.4	6.4	1505	720	3.75	✓

Did well dewater? Yes (No) Gallons actually evacuated: 3.75

Sampling Time: 1359 Sampling Date: 12/6/01

Sample I.D.: VW/MW-4 Laboratory: (Kiff) Sequoia Other_____

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

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:	~~1.2.5~~ mg/L	Post-purge:	1.9	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-SO-1	Site: 97088250
Sampler: O'Bryan	Date: 12/6/01
Well I.D.: VW/AS-1	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth: 19.57	Depth to Water: 11.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: (PPN) Bailer / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other

Sampling Method: (PPN) Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

.3 (Gals.) X 3 = .9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1226	64.8	6.4	1201	176	.5	
1228	65.1	6.5	1216	>200	.75	
1230	65.7	6.7	1246	>200	1.0	

Did well dewater? Yes No — Gallons actually evacuated: 1.0

Sampling Time: 1234 — Sampling Date: 12/6/01

Sample I.D.: VW/AS-1 — Laboratory: (Kiff) Sequoia Other

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

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):	1.2 mg/L	Post-purge:	.8 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-50-1	Site: 9708 8250
Sampler: O'Bryan	Date: 12/6/01
Well I.D.: VW/AS-3	Well Diameter: 2 3 4 6 8 (1")
Total Well Depth: 19.60	Depth to Water: 11.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: (Bailer)
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: (Bailer)
Disposable Bailer
Extraction Port
Dedicated Tubing
Other:

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

13 (Gals.) X 3 = 39 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1202	64.7	6.1	1283	7200	.5	
1204	65.4	6.1	12.68	7200	.75	
1206	66.7	6.3	1271	7200	1.0	

Did well dewater? Yes (No) Gallons actually evacuated: 1.0

Sampling Time: 1210 Sampling Date: 12/6/01

Sample I.D.: VW/AS-3 Laboratory: (Kiff) Sequoia Other_____

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

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:	1.9 mg/L	Post-purge:	1.1 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL GAUGING DATA

Project # 011203-MM1 Date 12-3-01 Client EQUILON

Site 1230 14TH St 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	
MW-5	4	-	-	-	-	11.86	20.31		
MW-6	4	-	-	-	-	12.19	19.68		
MW-7	4	-	-	-	-	12.66	19.74		

WELL DEVELOPMENT DATA SHEET

Project #: 011703-MM1	Client: EQUIVA
Developer: Matheny Alloft	Date Developed: 17-~~20~~-01
Well I.D. MW-5	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 20.31 After ~~15.39~~ 20.44	Depth to Water: Before 11.86 After ~~4.64~~ 15.39
Reason not developed:	If Free Product, thickness:
Additional Notations: used 4" surge block for 10 min	

Volume Conversion Factor (VCF):
[12 x (d^2/4) x π] /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

5.5	x	10	=	55
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☒
Middleburg ☒ Suction Pump ☐
Type of Installed Pump —
Other equipment used 4" Surge block

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
11:06 AM	65.2	6.82	1757	>200	5.5	LITTLE SILT grayish Brown
11:23 AM	67.4	7.06	1748	>200	~~5.5~~ 11 AM	Odor Mud Bottom
11:31 AM	68.4	6.66	1796	7200	16.5	odor ~~grayish~~ Brown
11:34 AM	69.0	6.66	1690	>200	22	odor " "
11:37	68.4	6.65	1637	7200	27.5	odor " "
11:40	68.2	6.64	1626	7200	33	odor " "
11:50	69.7	6.66	1766	7200	38.5	Odor " "
11:52	69.4	6.63	1631	>200	44	odor Cloudy Clearly
11:56	69.7	6.59	1752	7200	49.5	odor " "
12:00	70.2	6.59	1796	125	55	odor clear

Did Well Dewater? No If yes, note above. Gallons Actually Evacuated: 55 GAL.

WELL DEVELOPMENT DATA SHEET

Project #: 011202-MM1	Client: EQuiva
Developer: Mathews Albert	Date Developed: 12-5-01
Well I.D. MW-6	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth:	Depth to Water:
Before 19.66 After 19.80	Before 12.19 After 15.34
Reason not developed:	If Free Product, thickness:
Additional Notations: Sch 4" Surge block for 10 min	

Volume Conversion Factor (VCF):	Well dia.		VCF
$[12 \times (d^2/4) \times \pi] / 231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	(4")	=	0.65
d = diameter (in.)	6"	=	1.47
$\pi = 3.1416$	10"	=	4.08
231 = in 3/gal	12"	=	6.87

5	X	10	=	50
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☒
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
12:47	65.4	6.85	83.77	7200	5	BROWN
12:59	66.3	6.68	83.06	125	10	Brown Well Bailed dry
13:04	67.1	6.69	86.26	7200	15	BROWN
13:06	66.3	6.63	94.5	7200	20	" "
13:10	67.1	6.61	107.5	7200	25	" "
13:12	67.0	6.66	106.4	7200	30	" "
13:20	68.0	6.55	112.1	7200	35	" "
13:22	66.4	6.57	111.5	7200	40	Cloudy
13:25	66.6	6.58	112.7	7200	45	Cloudy
13:30	68.9	6.51	112.2	~~7200~~ 216	50	" "

Did Well Dewater? No If yes, note above. Gallons Actually Evacuated: 50

WELL DEVELOPMENT DATA SHEET

Project #: 011702-MM1	Client: Equilon
Developer: Matthew & Albert	Date Developed: 12-3-01
Well I.D. mw-7	Well Diameter: (circle one) 2 3 4 6
Total Well Depth:	Depth to Water:
Before 19.74 After 19.81	Before 12.66 After 14.84
Reason not developed:	If Free Product, thickness:
Additional Notations: Used 4" Surge block for 10 min	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d²/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	5.87

4.6	X	10	=	~~46~~ 46
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☒
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
1 14:07	64.4	6.52	145.4	>200	4.6	Brown
14:20	63.6	6.24	130.2	>200	9.2	" " hard bottom no silt
2 14:24	64.6	6.30	130.4	>200	13.8	" "
14:30	65.2	6.29	122.2	>200	18.3	" "
14:31	65.6	6.21	122.2	>200	22.9	" "
14:34	65.7	6.22	120.9	>200	27.7	" "
14:37	65.6	6.24	119.1	>200	32.3	" "
14:40	65.4	6.16	119.0	>200	36.9	" "
14:44	66.0	6.20	117.4	>229	~~46.4~~	" "
3 14:46	65.3	6.16	116.1	>200	46	" "

Did Well Dewater? N/A If yes, note above. Gallons Actually Evacuated: 46