CAMBRIA

March 17, 2000

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

Re: **Fourth Quarter 1999 Monitoring Report**
Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250
Cambria Project #242-0233-002

Dear Mr. Seto:

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 1999 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged water levels, measured dissolved oxygen (DO) concentrations, and calculated groundwater elevations. Cambria prepared a groundwater elevation contour map (Figure 1). The Blaine report, with supporting field notes, is included as Attachment A.

ANTICIPATED FUTURE 1999 ACTIVITIES

Groundwater Monitoring: The next monitoring event is scheduled for the first quarter of 2000. At that time, Blaine will gauge water levels, measure DO concentrations, sample selected site wells, and tabulate the data. Cambria will prepare a monitoring report.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

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

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Darryk Ataide, REA I
Project Manager

Ailsa S. Le May, R.G.
Senior Geologist

Figure: 1 - 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 91501-7869
Tom Saberi, 1045 Airport Boulevard, Suite 12, South San Francisco, CA 94080

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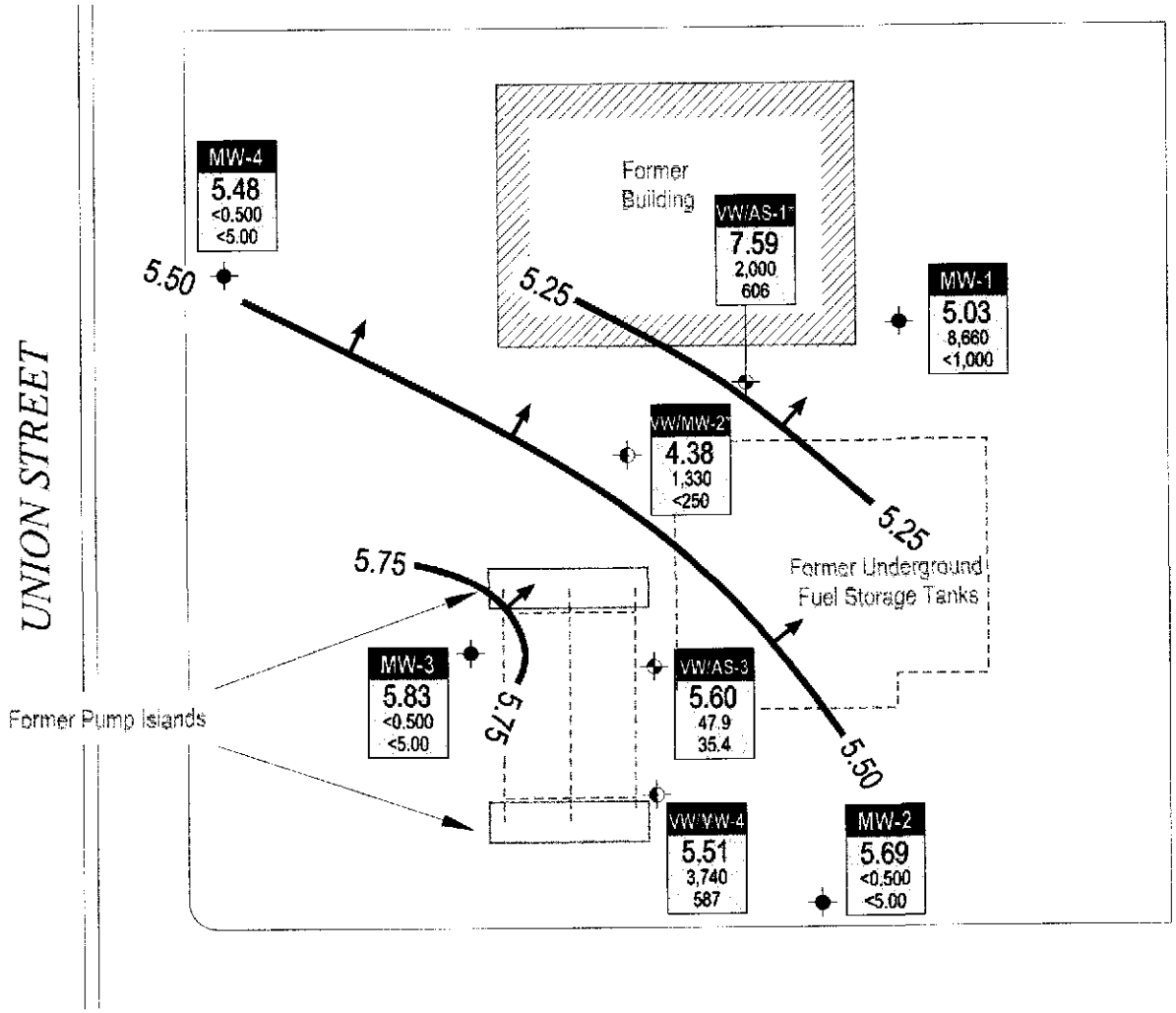

EXPLANATION

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
NS	Not sampled
*	Data anomalous, well not contoured
→	Ground water flow direction
XX.XX	Ground water elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well
ELEV
Benzene
MTBE

- Well designation
- Ground water elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020

N

0 10 20

Scale (ft)

FIGURE **1**

G:\OAK1230\FIGURES\4QM99-MP.DWG

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

CAMBRIA

Ground Water Elevation Contour Map

December 27, 1999

ATTACHMENT A

Blaine Ground Water Monitoring Report
and Field Notes

BLAINE
TECH SERVICES INC.

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

February 25, 2000

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

Fourth Quarter 1999 Groundwater Monitoring at
Shell-branded Service Station
1230 14th Street
Oakland, CA

Monitoring performed on December 27, 1999

Groundwater Monitoring Report **991227-U-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, 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. 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,

Deidre Kerwin
Operations Manager

DK/ew

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
Shell-branded 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	3/25/96	37,000	7,400	1,500	720	3,300	<500	NA	18.58	9.53	9.05	NA
MW-1	6/21/96	35,000	9,900	460	340	3,500	890	NA	18.58	10.72	7.86	NA
MW-1	9/26/96	19,000	8,200	510	780	790	<250	NA	18.58	12.88	5.70	NA
MW-1	12/19/96	27,000	120	1,200	1,400	2,800	<100	NA	18.58	12.59	5.99	NA
MW-1	12/19/96	32,000	12,000	1,300	1,600	3,100	830	NA	18.58	12.59	5.99	NA
MW-1	3/25/97	39,000	13,000	1,600	840	3,100	730	NA	18.58	11.10	7.48	1.2
MW-1	6/26/97	NA	NA	NA	NA	NA	NA	NA	18.58	12.42	6.16	NA
MW-1	9/26/97	NA	NA	NA	NA	NA	NA	NA	18.58	13.31	5.27	0.8
MW-1	12/5/97	NA	NA	NA	NA	NA	NA	NA	18.58	12.65	5.93	0.3
MW-1	2/19/98	16,000	5,500	450	500	800	<500	NA	18.58	6.46	12.12	2.4
MW-1	6/8/98	NA	NA	NA	NA	NA	NA	NA	18.58	6.62	11.96	1.2
MW-1	8/25/98	NA	NA	NA	NA	NA	NA	NA	18.58	11.83	6.75	2.8
MW-1	12/28/98	NA	NA	NA	NA	NA	NA	NA	18.58	12.01	6.57	2.6
MW-1	3/26/99	NA	NA	NA	NA	NA	NA	NA	18.58	9.15	9.43	2.2
MW-1	6/30/99	NA	NA	NA	NA	NA	NA	NA	18.58	11.22	7.36	3.8
MW-1	9/30/99	NA	NA	NA	NA	NA	NA	NA	18.58	11.89	6.69	3.0
MW-1	12/27/99	34,800	8,660	953	956	2,770	<1,000	NA	18.58	13.55	5.03	2.4/2.1
MW-2	3/25/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	8.19	9.71	NA
MW-2	6/21/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.94	7.96	NA
MW-2	9/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.15	5.75	NA
MW-2	12/19/96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	17.90	11.70	6.20	NA
MW-2	3/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.25	8.65	1.8
MW-2	6/26/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.36	6.54	2.4
MW-2	9/26/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	9/26/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	12/5/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.15	6.75	0.7
MW-2	2/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	5.61	12.29	2.7

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Oakland, CA
Wic #204-5508-3103

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MW-2	6/8/98	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	17.90	5.58	12.32	3.2
MW-2	8/25/98	NA	NA	NA	NA	NA	NA	NA	17.90	10.67	7.23	1.7
MW-2	12/28/98	<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	3/26/99	NA	NA	NA	NA	NA	NA	NA	17.90	8.60	9.30	0.7
MW-2	6/30/99	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	10.30	7.60	2.3
MW-2	9/30/99	NA	NA	NA	NA	NA	NA	NA	17.90	10.77	7.13	1.9
MW-2	12/27/99	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	12.21	5.69	0.7/0.7
MW-3	3/25/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	8.47	9.71	NA
MW-3	6/21/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	10.40	7.78	NA
MW-3	9/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	12.45	5.73	NA
MW-3	12/19/96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.18	12.14	6.02	NA
MW-3	3/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	9.54	8.64	2.2
MW-3	6/26/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.66	6.52	3.6
MW-3	9/26/97	<50	<0.50	<050	<0.50	<0.50	<2.5	NA	18.18	12.85	5.33	1.1
MW-3	12/5/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.44	6.74	0.6
MW-3	2/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	6.78	11.40	3.6
MW-3	6/8/98	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	6/8/98	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	8/25/98	NA	NA	NA	NA	NA	NA	NA	18.18	11.09	7.09	1.2
MW-3	12/28/98	<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	3/26/99	NA	NA	NA	NA	NA	NA	NA	18.18	8.57	9.61	0.8
MW-3	6/30/99	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	10.61	7.57	4.8
MW-3	9/30/99	NA	NA	NA	NA	NA	NA	NA	18.18	11.53	6.65	1.4
MW-3	12/27/99	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	12.35	5.83	1.4/2.5
MW-4	3/25/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.20	8.81	NA
MW-4	6/21/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	10.25	7.76	NA

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MW-4	9/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.29	5.72	NA
MW-4	12/19/96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.01	12.47	5.54	NA
MW-4	3/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.44	8.57	1.8
MW-4	6/26/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4 (D)	6/26/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4	9/26/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.75	5.26	2.1
MW-4	12/5/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4 (D)	12/5/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4	2/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	5.59	12.42	6.5
MW-4	6/8/98	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.01	5.65	12.36	2.6
MW-4	8/25/98	NA	NA	NA	NA	NA	NA	NA	18.01	10.98	7.03	2.4
MW-4	12/28/98	<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	3/26/99	NA	NA	NA	NA	NA	NA	NA	18.01	8.40	9.61	1.9
MW-4	6/30/99	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	10.53	7.48	7.6
MW-4	9/30/99	NA	NA	NA	NA	NA	NA	NA	18.01	11.03	6.98	2.6
MW-4	12/27/99	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	12.53	5.48	1.9/0.8
VW/MW-2	3/25/96	13,000	900	920	180	1,500	<250	NA	18.30	9.04	9.26	NA
VW/MW-2	6/21/96	27,000	4,100	1,100	1,400	3,200	700	NA	18.30	10.48	7.82	NA
VW/MW-2	9/26/96	27,000	5,300	1,900	980	2,200	<500	NA	18.30	12.52	5.78	NA
VW/MW-2 (D)	9/26/96	29,000	5,800	2,200	1,100	2,500	<250	NA	18.30	12.52	5.78	NA
VW/MW-2	12/19/96	50,000	6,200	5,100	1,700	5,600	590	NA	18.30	12.42	5.88	NA
VW/MW-2	3/25/97	210	5.6	<0.50	0.52	<0.50	14	NA	18.30	9.83	8.47	2.0
VW/MW-2 (D)	3/25/97	250	1.7	0.58	0.51	<0.50	4.7	NA	18.30	9.83	8.47	2.0
VW/MW-2	6/26/97	NA	NA	NA	NA	NA	NA	NA	18.30	12.43	5.87	NA
VW/MW-2	9/26/97	NA	NA	NA	NA	NA	NA	NA	18.30	12.98	5.32	0.9
VW/MW-2	12/5/97	NA	NA	NA	NA	NA	NA	NA	18.30	12.20	6.10	0.4
VW/MW-2	2/19/98	<50	1.5	<0.50	<0.50	0.71	<2.5	NA	18.30	5.83	12.47	3.6

WELL CONCENTRATIONS
Shell-branded Service Station
1230 14th Street
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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/MW-2	6/8/98	NA	NA	NA	NA	NA	NA	NA	18.30	5.80	12.50	1.0
VW/MW-2	8/25/98	NA	NA	NA	NA	NA	NA	NA	18.30	11.72	6.58	4.8
VW/MW-2	12/28/98	NA	NA	NA	NA	NA	NA	NA	18.30	11.69	6.61	2.7
VW/MW-2	3/26/99	NA	NA	NA	NA	NA	NA	NA	18.30	8.75	9.55	2.8
VW/MW-2	6/30/99	NA	NA	NA	NA	NA	NA	NA	18.30	10.72	7.58	4.7
VW/MW-2	9/30/99	NA	NA	NA	NA	NA	NA	NA	18.30	12.24	6.06	4.9
VW/MW-2	12/27/99	13,500	1,330	1,310	490	1,400	<250	NA	18.30	13.92	4.38	2.1/1.9
VW/MW-4	3/25/96	83,000	6,500	7,000	2,000	11,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4 (D)	3/25/96	84,000	6,400	7,000	2,100	12,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4	6/21/96	110,000	14,000	15,000	3,700	17,000	1,700	NA	18.14	10.38	7.76	NA
VW/MW-4 (D)	6/21/96	100,000	12,000	12,000	2,900	13,000	<1,000	NA	18.14	10.38	7.76	NA
VW/MW-4	9/26/96	52,000	13,000	2,700	2,100	3,200	<500	NA	18.14	12.43	5.71	NA
VW/MW-4	12/19/96	75,000	15,000	6,600	3,000	7,600	<1,250	NA	18.14	11.87	6.27	NA
VW/MW-4	3/25/97	56,000	4,700	1,500	2,500	6,300	580	NA	18.14	9.60	8.54	2.4
VW/MW-4	6/26/97	NA	NA	NA	NA	NA	NA	NA	18.14	12.36	5.78	NA
VW/MW-4	9/26/97	NA	NA	NA	NA	NA	NA	NA	18.14	12.82	5.32	0.4
VW/MW-4	12/5/97	NA	NA	NA	NA	NA	NA	NA	18.14	12.15	5.99	0.3
VW/MW-4	3/9/98	4,100	320	40	44	520	<50	NA	18.14	5.85	12.29	1.8
VW/MW-4 (D)	3/9/98	4,300	340	44	47	540	<50	NA	18.14	5.85	12.29	1.8
VW/MW-4	6/8/98	NA	NA	NA	NA	NA	NA	NA	18.14	5.87	12.27	1.8
VW/MW-4	8/25/98	NA	NA	NA	NA	NA	NA	NA	18.14	10.96	7.18	2.5
VW/MW-4	12/28/98	NA	NA	NA	NA	NA	NA	NA	18.14	11.28	6.86	0.9
VW/MW-4	3/26/99	NA	NA	NA	NA	NA	NA	NA	18.14	8.45	9.69	1.9
VW/MW-4	6/30/99	NA	NA	NA	NA	NA	NA	NA	18.14	9.70	8.44	3.6
VW/MW-4	9/30/99	NA	NA	NA	NA	NA	NA	NA	18.14	11.78	6.36	2.6
VW/MW-4	12/27/99	33,900	3,740	2,000	1,130	5,090	587	NA	18.14	12.63	5.51	0.4/0.2

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VW/AS-1	3/25/96	NA	NA	NA	NA	NA	NA	NA	18.60	8.98	9.62	NA
VW/AS-1	6/21/96	NA	NA	NA	NA	NA	NA	NA	18.60	10.95	7.65	NA
VW/AS-1	9/26/96	NA	NA	NA	NA	NA	NA	NA	18.60	12.98	5.62	NA
VW/AS-1	12/19/96	NA	NA	NA	NA	NA	NA	NA	18.60	12.67	5.93	NA
VW/AS-1	3/25/97	NA	NA	NA	NA	NA	NA	NA	18.60	10.12	8.48	NA
VW/AS-1	6/26/97	NA	NA	NA	NA	NA	NA	NA	18.60	12.34	6.26	NA
VW/AS-1	9/26/97	NA	NA	NA	NA	NA	NA	NA	18.60	13.40	5.20	NA
VW/AS-1	12/5/97	NA	NA	NA	NA	NA	NA	NA	18.60	11.96	6.64	5.2
VW/AS-1	2/19/98	NA	NA	NA	NA	NA	NA	NA	18.60	6.22	12.38	1.3
VW/AS-1	6/8/98	NA	NA	NA	NA	NA	NA	NA	18.60	6.20	12.40	1.0
VW/AS-1	8/25/98	NA	NA	NA	NA	NA	NA	NA	18.60	11.59	7.01	1.6
VW/AS-1	12/28/98	NA	NA	NA	NA	NA	NA	NA	18.60	11.74	6.86	1.3
VW/AS-1	3/26/99	NA	NA	NA	NA	NA	NA	NA	18.60	9.20	9.40	1.3
VW/AS-1	6/30/99	NA	NA	NA	NA	NA	NA	NA	18.60	11.08	7.52	2.1
VW/AS-1	9/30/99	NA	NA	NA	NA	NA	NA	NA	18.60	11.94	6.66	1.9
VW/AS-1	12/27/99	8,940	2,000	95.7	1,200	570	606	NA	18.60	11.01	7.59	1.6/1.8
VW/AS-3	3/25/96	NA	NA	NA	NA	NA	NA	NA	18.17	8.50	9.67	NA
VW/AS-3	6/21/96	NA	NA	NA	NA	NA	NA	NA	18.17	10.42	7.75	NA
VW/AS-3	9/26/96	NA	NA	NA	NA	NA	NA	NA	18.17	12.49	5.68	NA
VW/AS-3	12/19/96	NA	NA	NA	NA	NA	NA	NA	18.17	12.28	5.89	NA
VW/AS-3	3/25/97	NA	NA	NA	NA	NA	NA	NA	18.17	9.61	8.56	NA
VW/AS-3	6/26/97	NA	NA	NA	NA	NA	NA	NA	18.17	11.80	6.37	NA
VW/AS-3	9/26/97	NA	NA	NA	NA	NA	NA	NA	18.17	12.89	5.28	NA
VW/AS-3	12/5/97	NA	NA	NA	NA	NA	NA	NA	18.17	11.38	6.79	1.8
VW/AS-3	2/19/98	NA	NA	NA	NA	NA	NA	NA	18.17	6.24	11.93	1.3
VW/AS-3	6/8/98	NA	NA	NA	NA	NA	NA	NA	18.17	6.25	11.92	1.2
VW/AS-3	8/25/98	NA	NA	NA	NA	NA	NA	NA	18.17	11.43	6.74	1.3

WELL CONCENTRATIONS
Shell-branded 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-3	12/28/98	NA	NA	NA	NA	NA	NA	NA	18.17	11.63	6.54	1.7
VW/AS-3	3/26/99	NA	NA	NA	NA	NA	NA	NA	18.17	8.92	9.25	1.5
VW/AS-3	6/30/99	NA	NA	NA	NA	NA	NA	NA	18.17	10.71	7.46	2.5
VW/AS-3	9/30/99	NA	NA	NA	NA	NA	NA	NA	18.17	11.78	6.39	1.5
VW/AS-3	12/27/99	488	47.9	2.60	16.9	8.50	35.4 *	NA	18.17	12.57	5.60 **	1.5/2.1

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 by EPA Method 8020
TOC = Top of Casing Elevation
GW = Groundwater
DO = Dissolved Oxygen
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
n/n = Pre-purge/Post-purge DO Readings

Sequoia Analytical

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

January 17, 2000

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

RE: Equiva 1230 14th Street, Oakland/M912959

Dear Leah Davis

Enclosed are the results of analyses for sample(s) received by the laboratory on December 28, 1999. If you have any questions concerning this report, please feel free to contact me.
Report revised and reissued due to a correction in sample Ids for M912959-07 and -08.

Sincerely,

Kayvan Kimyai
Project Manager D.M.

CA ELAP Certificate Number 1210

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/27/99
1680 Rogers Avenue	Project Number:	1230 14th St.	Received: 12/28/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/17/00

ANALYTICAL REPORT FOR M912959

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M912959-01	Water	12/27/99
MW-2	M912959-02	Water	12/27/99
MW-3	M912959-03	Water	12/27/99
MW-4	M912959-04	Water	12/27/99
VW/AS-1	M912959-05	Water	12/27/99
VW/AS-3	M912959-06	Water	12/27/99
VW/MW-2	M912959-07	Water	12/27/99
VW/MW-4	M912959-08	Water	12/27/99

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/27/99
1680 Rogers Avenue	Project Number:	1230 14th St.	Received: 12/28/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/17/00

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-1			**M912959-01**				**Water**	
TRPH	0010056	1/3/00	1/5/00	SM 5520B/F	5.00	ND	mg/l	
MW-2			**M912959-02**				**Water**	
TRPH	0010056	1/3/00	1/5/00	SM 5520B/F	5.00	ND	mg/l	
MW-3			**M912959-03**				**Water**	
TRPH	0010126	1/5/00	1/6/00	SM 5520B/F	5.00	ND	mg/l	
MW-4			**M912959-04**				**Water**	
TRPH	0010126	1/5/00	1/6/00	SM 5520B/F	5.00	ND	mg/l	
VW/AS-1			**M912959-05**				**Water**	
TRPH	0010126	1/5/00	1/6/00	SM 5520B/F	5.00	ND	mg/l	
VW/AS-3			**M912959-06**				**Water**	
TRPH	0010126	1/5/00	1/6/00	SM 5520B/F	5.00	ND	mg/l	
VW/MW-2			**M912959-07**				**Water**	
TRPH	0010126	1/5/00	1/6/00	SM 5520B/F	5.00	ND	mg/l	
VW/MW-4			**M912959-08**				**Water**	
TRPH	0010126	1/5/00	1/6/00	SM 5520B/F	5.00	ND	mg/l	

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/27/99
1680 Rogers Avenue	Project Number:	1230 14th St.	Received: 12/28/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/17/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**0010021-BLK1**									
Methyl tert-butyl ether	1/5/00			ND	ug/l	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.3*	"	*70.0-130*	*103*			
LCS	**0010021-BS1**									
Benzene	1/5/00	10.0		9.79	ug/l	70.0-130	97.9			
Toluene	"	10.0		9.45	"	70.0-130	94.5			
Ethylbenzene	"	10.0		9.47	"	70.0-130	94.7			
Xylenes (total)	"	30.0		28.2	"	70.0-130	94.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.0*	"	*70.0-130*	*100*			
LCS	**0010021-BS2**									
Purgeable Hydrocarbons as Gasoline	1/5/00	250		241	ug/l	70.0-130	96.4			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.6*	"	*70.0-130*	*116*			
Matrix Spike	**0010021-MS1**		**L912255-07**							
Benzene	1/5/00	10.0	ND	8.29	ug/l	60.0-140	**82.9**			
Toluene	"	10.0	ND	7.96	"	60.0-140	**79.6**			
Ethylbenzene	"	10.0	ND	8.03	"	60.0-140	**80.3**			
Xylenes (total)	"	30.0	ND	23.7	"	60.0-140	**79.0**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.31*	"	*70.0-130*	*93.1*			
Matrix Spike Dup	**0010021-MSD1**		**L912255-07**							
Benzene	1/5/00	10.0	ND	11.0	ug/l	60.0-140	**110**	25.0	**28.1**	
Toluene	"	10.0	ND	10.6	"	60.0-140	**106**	25.0	**28.4**	
Ethylbenzene	"	10.0	ND	10.7	"	60.0-140	**107**	25.0	**28.5**	
Xylenes (total)	"	30.0	ND	31.8	"	60.0-140	**106**	25.0	**29.2**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.5*	"	*70.0-130*	*105*			
Batch: 0010030	**Date Prepared: 1/6/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010030-BLK1**									
Purgeable Hydrocarbons as Gasoline	1/6/00			ND	ug/l	**50.0**				
Benzene	"			ND	"	**0.500**				
Toluene	"			ND	"	**0.500**				
Ethylbenzene	"			ND	"	**0.500**				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.8*	"	*70.0-130*	*108*			
LCS	**0010030-BS1**									
Benzene	1/6/00	10.0		9.81	ug/l	70.0-130	98.1			
Toluene	"	10.0		9.64	"	70.0-130	96.4			

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/27/99
1680 Rogers Avenue	Project Number:	1230 14th St.	Received: 12/28/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/17/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0010030-BS1**									
Ethylbenzene	1/6/00	10.0		9.93	ug/l	70.0-130	99.3			
Xylenes (total)	"	30.0		29.5	"	70.0-130	98.3			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.6*	"	*70.0-130*	*106*			
LCS	**0010030-BS2**									
Purgeable Hydrocarbons as Gasoline	1/6/00	250		275	ug/l	70.0-130	110			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.8*	"	*70.0-130*	*108*			
Matrix Spike	**0010030-MS1**		**L912242-07**							
Purgeable Hydrocarbons as Gasoline	1/6/00	250	ND	268	ug/l	60.0-140	**107**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.4*	"	*70.0-130*	*104*			
Matrix Spike Dup	**0010030-MSD1**		**L912242-07**							
Purgeable Hydrocarbons as Gasoline	1/6/00	250	ND	251	ug/l	60.0-140	**100**	25.0	**6.76**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.90*	"	*70.0-130*	*89.0*			
Batch: 0010031	**Date Prepared: 1/6/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010031-BLK1**									
Purgeable Hydrocarbons as Gasoline	1/6/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.8*	"	*70.0-130*	*108*			
LCS	**0010031-BS1**									
Benzene	1/6/00	10.0		10.6	ug/l	70.0-130	106			
Toluene	"	10.0		10.6	"	70.0-130	106			
Ethylbenzene	"	10.0		10.4	"	70.0-130	104			
Xylenes (total)	"	30.0		31.0	"	70.0-130	103			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.8*	"	*70.0-130*	*108*			
LCS	**0010031-BS2**									
Purgeable Hydrocarbons as Gasoline	1/6/00	250		273	ug/l	70.0-130	109			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.2*	"	*70.0-130*	*112*			
Matrix Spike	**0010031-MS1**		**L912220-03**							
Purgeable Hydrocarbons as Gasoline	1/6/00	250	ND	271	ug/l	60.0-140	**108**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.8*	"	*70.0-130*	*118*			

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/27/99
1680 Rogers Avenue	Project Number:	1230 14th St.	Received: 12/28/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/17/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup	**0010031-MSD1**		**L912220-03**							
Purgeable Hydrocarbons as Gasoline	1/6/00	250	ND	255	ug/l	60.0-140	**102**	25.0	**5.71**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.4*	"	*70.0-130*	*114*			

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1680 Rogers Avenue	Project Number:	1230 14th St.	Received: 12/28/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/17/00

Notes and Definitions

#	Note
D	Data reported from a dilution.
1	Chromatogram Pattern: Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

BLAINE TECH SERVICES INC.

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

CHAIN OF CUSTODY

CLIENT: Equiva - Karen Petryna

SITE: 1230 14th Street
Oakland, CA

M9 12959

LAB: Sequoia | DHS #

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

☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # ~~97088250~~ 991227-U2

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.			MATRIX (S = SOIL, W = H2O)	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	TOG	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	12-27-99	15:08	W	5		X	X					X				01
MW-2		13:45														02
MW-3		13:08														03
MW-4		14:06														04
VW/AS-1		11:37														05
VW/AS-3		12:19														06
VW/MW-2		13:35														07
VW/MW-4		14:39														08

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	12-27-99	1508	Sanjiv	

RELEASED BY: S. Gill	DATE: 12/28/99	TIME: 16:18	RECEIVED BY:	DATE: 12/28	TIME: 1608
RELEASED BY:	DATE	TIME	RECEIVED BY: TJT (MH)	DATE: 12.28.99	TIME: 17:25
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 991227-L2 Date 12-27-99 Client 204-5508-3103

Site 1230 14th St. Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					13.55	20.57	TOC	
MW-2	2					12.21	21.44		
MW-3	2					12.35	18.47		
MW-4	2					12.53	19.51		
VW/AS-1	1					11.01	18.75		
VW/AS-3	1					12.57	13.43		
VW/MW-2	2					13.92	20.42		
VW/MW-4						12.63	18.26		

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991227-U2	Site: 204-5508-3103
Sampler: Sanjiv	Date: 12-27-99
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 20.57	Depth to Water: 13.55
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: _____

1.1 (Gals.) X 3 = 3.3 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
15:05	63.7	7.3	1774	>200	1	color
15:06	64.0	7.3	1792	7200	2	~~HCl Rx with H_2O causing it to fizz~~ possible bubbles in sample
15:07	63.6	7.2	1761	7200	3.5	

Did well dewater? Yes (No) Gallons actually evacuated: 3.5

Sampling Time: 15:08 Sampling Date: 12-27-99

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

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

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991227-42	Site: 204-5508-3103
Sampler: Sanjiv	Date: 12-27-99
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 21.44	Depth to Water: 12.21
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: _____

1.47 (Gals.) X 3 = 4.4 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
12:37	66.8	7.41	878	>200	2	
12:38	67.2	7.3	861	>200	3	
12:40	67.7	7.3	854	>200	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Time: 12:45 Sampling Date: 12-27-99

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

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

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

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

D.O. (if req'd):	Pre-purge:	0.7 mg/L	Post-purge:	0.7 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991227-42	Site: 204-5508-3103
Sampler: Sanjiv	Date: 12-27-99
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 18.47	Depth to Water: 12.35
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: _____

.97 (Gals.) X	3	= 2.9 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
~~13:05~~	66.0	7.2	1223	>200	1	
13:06	66.5	7.0	1205	>200	2	
13:07	65.8	6.9	1194	>200	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 13:08 Sampling Date: 12-27-99

Sample I.D.: MW-3 Laboratory: (Sequoia) Columbia Other_____

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

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:	~~2.6~~ 2.5 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991227-4J2	Site: 204-5508-3103
Sampler: Sanjiv	Date: 12-27-99
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.51	Depth to Water: 12.53
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 Case Volume	Specified Volumes	Calculated Volume
1.1 (Gals.) X	3	= 3.3 Gals.

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
14:03	68.3	8.3	488	>200	1	
14:04	68.4	7.7	557	>200	2	
14:05	68.4	7.3	541	>200	3.5	

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

Sampling Time: 14:06 Sampling Date: 12-27-99

Sample I.D.: MW-4 Laboratory: (Sequoia) Columbia Other_____

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

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991227-U2	Site: 204-5508-3103
Sampler: Sanjiv	Date: 12-27-99
Well I.D.: VW/AS-1	Well Diameter: 2 3 4 6 8 1
Total Well Depth: 18.75	Depth to Water: 11.01
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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:30	64.3	7.7	1357	>200	.30	HCl Rx
11:33	65.0	7.2	1377	>200	.75	H_2O → fizzing
11:35	64.6	7.0	1351	>200	1.0	possible
						bubbles
						in VOAs

Did well dewater? Yes (No) Gallons actually evacuated: 1

Sampling Time: 11:37 Sampling Date: 12-27-99

Sample I.D.: VW/AS-1 Laboratory: (Sequoia) Columbia Other_____

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

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

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

D.O. (if req'd):	Pre-purge:	1.6 mg/L	Post-purge:	1.2 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991227-U2	Site: 204-5508-3103
Sampler: Sanjiv	Date: 12-27-99
Well I.D.: VW/AS-3	Well Diameter: (2) 3 4 6 8 1
Total Well Depth: 13.43	Depth to Water: 12.57
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:

.03 (Gals.) X 3 = .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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:00	68.4	6.9	1268	>200	~~.25~~ .1	
12:01	67.4	6.8	1856	>200	.2 ~~.50~~	
12:02	65.5	7.0	1973	>200	.3 ~~.75~~	
~~12:15~~						

Did well dewater? Yes (No) Gallons actually evacuated: .5

Sampling Time: 12:15 Sampling Date: 12-27-99

Sample I.D.: VW/AS-3 Laboratory: (Sequoia) Columbia Other

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

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

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

D.O. (if req'd): Pre-purge: 1.5 mg/L Post-purge: 2.1 mg/L

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991227-L12	Site: 204-5508-3103
Sampler: Sanjiv	Date: 12-27-99
Well I.D.: VW/MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 20.42	Depth to Water: 13.92
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: _____

1.04 (Gals.) X 3 = 3.1 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
13:32	65.7	7.1	1386	>200	1	odor
13:33	66.3	7.3	1401	>200	2	
13:34	67.1	7.7	1398	>200	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 13:35 Sampling Date: 12-27-99

Sample I.D.: VW/MW-2 Laboratory: (Sequoia) Columbia Other_____

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

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991227-U2	Site: 204-5508-3103
Sampler: Sanjiv	Date: 12-27-99
Well I.D.: VW/MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 18.26	Depth to Water: 12.63
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: _____

.90 (Gals.) X	3	=	2.7 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
14:32	66.7	7.0	1691	7900	1	HCl Rx with
14:33	66.2	7.3	1738	7200	2	H_2O causing
14:34	65.6	7.3	1763	7200	3	it to fizz
						possible bubbles in
						sample

Did well dewater? Yes (No)		Gallons actually evacuated: 3	
Sampling Time: 14:35		Sampling Date: 12-27-99	
Sample I.D.: VW-/MW-4		Laboratory: (Sequoia) Columbia Other_____	
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D		Other: TOG	
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: 0.4 mg/L	Post-purge: 0.2	mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge:	mV