

December 22, 1999

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

Re: **Third Quarter 1999 Monitoring Report**
Shell-branded Service Station
350 Grand Avenue
Oakland, California
Incident #98995755
Cambria Project #241-0715-002



Dear Mr. Seery:

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

THIRD QUARTER 1999 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells. Blaine calculated groundwater elevations and compiled the analytical data. Cambria prepared a groundwater elevation contour map (Figure 1). The Blaine report, presenting the laboratory report and including supporting field documents, is included as Attachment A.

March, 1999 Investigation: Cambria submitted an investigation report dated September, 8, 1999 for the soil and groundwater investigation conducted on March 17, 1999.

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

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring: The next sampling event is scheduled for the first quarter of 2000. At that time, Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

**Cambria
Environmental
Technology, Inc.**

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

C A M B R I A

Scott Seery
December 22, 1999

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
for

Darryk Ataide, REA I
Project Manager

Ailsa S. Le May

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

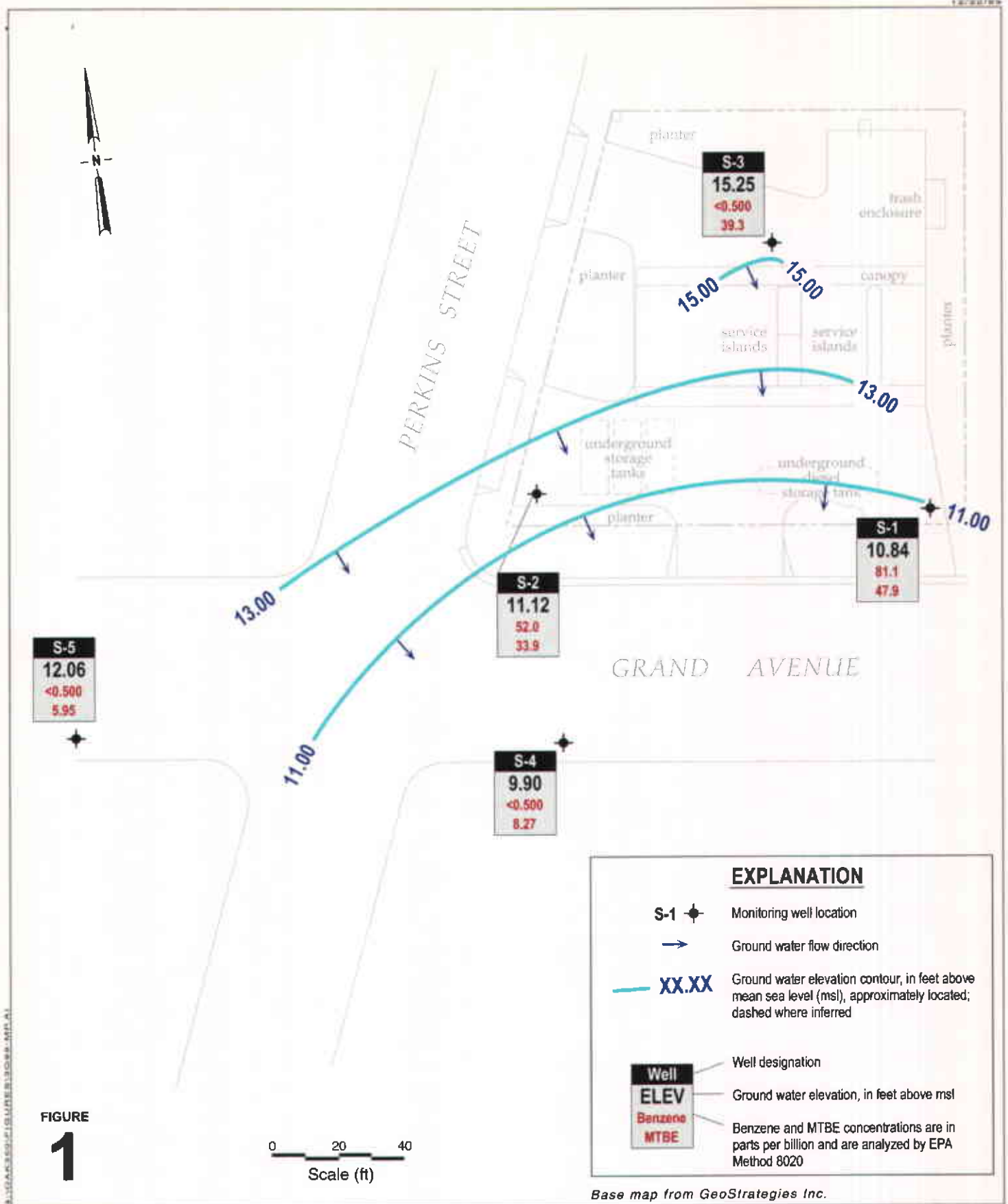


Figure: 1 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869

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Shell-branded Service Station

350 Grand Avenue
 Oakland, California
 Incident #98995755



C A M B R I A

Ground Water Elevation Contour Map

July 23, 1999

ATTACHMENT A

Blaine Groundwater 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

September 2, 1999

Karen Petryna
Equiva Services LLC
P.O. Box 6249
Carson, CA 90749-6249

Third Quarter 1999 Groundwater Monitoring at
Shell-branded Service Station
350 Grand Avenue
Oakland, CA

Monitoring performed on July 23, 1999

Groundwater Monitoring Report 990723-P-4

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, appropriate calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

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

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

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

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin". The signature is fluid and cursive, with a long horizontal flourish at the end.

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, Suite C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	01/23/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.73	11.11	NA
S-1	04/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	7.37	13.47	NA
S-1	07/19/1991	<50	<50	6.8	<0.5	<0.5	<0.5	NA	NA	20.84	8.92	11.92	NA
S-1	10/09/1991	120	260d	10	<0.5	<0.5	<0.5	NA	NA	20.84	9.62	11.22	NA
S-1	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	8.94	11.90	NA
S-1	04/27/1992	<50	70b	1.2	<0.5	<0.5	<0.5	NA	NA	20.84	7.06	13.78	NA
S-1	07/10/1992	<50	930	13	<0.5	<0.5	<0.5	NA	NA	20.84	8.31	12.53	NA
S-1	10/06/1992	62	110	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.55	11.29	NA
S-1	01/06/1993	85	81	1.1	<0.5	<0.5	<0.5	NA	NA	20.84	9.86	10.98	NA
S-1	04/26/1993	<50	53c	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.30	14.54	NA
S-1 (D)	04/26/1993	<50	53c	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.30	14.54	NA
S-1	07/20/1993	<50	140	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	8.78	12.06	NA
S-1	10/18/1993	<50	210	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.20	11.64	NA
S-1	01/07/1994	<50	<50	1.4	1.5	0.55	2.8	NA	NA	20.84	9.53	11.31	NA
S-1 (D)	01/07/1994	<50	53	1.2	1.5	<0.5	2.7	NA	NA	20.84	9.53	11.31	NA
S-1	04/11/1994	<50	320	2.8	<0.5	<0.5	<0.5	NA	NA	20.84	8.50	12.34	NA
S-1 (D)	04/11/1994	<50	220	2.6	<0.5	<0.5	<0.5	NA	NA	20.84	8.50	12.34	NA
S-1	07/14/1994	NA	NA	NA	NA	NA	NA	NA	NA	20.84	8.45	12.39	NA
S-1	07/19/1994	<50	110	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.07	11.77	NA
S-1	10/06/1994	110	370	1.4	<0.5	<0.5	<0.5	NA	NA	20.84	11.68	9.16	NA
S-1	01/04/1995	120	1,000	2.5	<0.5	1.5	1.7	NA	NA	20.84	8.51	12.33	NA
S-1	04/12/1995	<50	290	2.1	<0.5	<0.5	<0.5	NA	NA	20.84	6.66	14.18	NA
S-1 (D)	04/12/1995	<50	480	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.66	14.18	NA
S-1	07/07/1995	<50	370	5.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.95	13.89	NA
S-1 (D)	07/07/1995	<50	450	6.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.95	13.89	NA
S-1	10/05/1995	<50	200	3.9	1.2	<0.5	2.4	NA	NA	20.84	8.50	12.34	NA
S-1	01/12/1996	230	1,500	2.5	<0.5	0.9	0.6	NA	NA	20.84	8.02	12.82	NA

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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S-1	04/02/1996	95	2,000	0.91	<0.5	<0.5	<0.5	140	NA	20.84	4.98	15.86	NA
S-1	07/30/1996	<50	510	<0.5	<0.5	<0.5	<0.5	67	NA	20.84	6.40	14.44	NA
S-1 (D)	07/30/1996	<50	380	<0.5	<0.5	<0.5	<0.5	68	NA	20.84	6.40	14.44	NA
S-1	10/02/1996	<50	250	<0.5	<0.5	<0.5	<0.5	96	NA	20.84	7.53	13.31	NA
S-1	09/19/1997	<50	120	<0.50	<0.50	<0.50	<0.50	37	NA	20.84	8.54	12.30	0.8
S-1	01/08/1998	<50	210	<0.50	<0.50	<0.50	<0.50	74	NA	20.84	9.09	11.75	2.6
S-1	07/17/1998	<50	99	<0.50	<0.50	<0.50	<0.50	25	NA	20.86	6.48	14.38	2.6
S-1	01/28/1999	92.7	212	4.5	1.83	1.59	12.1	2.17	NA	20.86	10.46	10.40	2.2
S-1	07/23/1999	537	<50	81.1	91.3	24.8	81.6	47.9	NA	20.86	10.02	10.84	2.1

S-2	01/23/1991	2,500	1,200	550	15	33	42	NA	NA	21.24	10.55	10.69	NA
S-2	04/25/1991	32,000	20,000b	2,900	480	1,400	2,300	NA	NA	21.24	8.24	13.00	NA
S-2	07/19/1991	21,000	30,000b	4,700	430	1,200	2,400	NA	NA	21.24	9.55	11.69	NA
S-2	10/09/1991	29,000	32,000b	6,300	510	1,700	2,400	NA	NA	21.24	10.26	10.98	NA
S-2	01/23/1992	31,000	36,000b	5,800	480	2,000	2,700	NA	NA	21.24	9.51	11.73	NA
S-2	04/27/1992	21,000d	12,000b	4,800	320	1,600	1,400	NA	NA	21.24	7.83	13.41	NA
S-2	07/10/1992	31,000	3,700e	7,500	940	3,400	3,500	NA	NA	21.24	8.57	12.67	NA
S-2	10/06/1992	57,000	4,500e	9,300	1,200	4,000	4,900	NA	NA	21.24	9.49	11.75	NA
S-2	01/06/1993	55,000	5,600	5,600	360	3,000	3,000	NA	NA	21.24	8.56	12.68	NA
S-2	04/26/1993	32,000	9,400e	10,000	500	4,400	3,600	NA	NA	21.24	6.84	14.40	NA
S-2	07/20/1993	25,000	8,400e	5,800	300	2,700	1,400	NA	NA	21.24	8.52	12.72	NA
S-2 (D)	07/20/1993	25,000	8,900e	5,900	310	2,800	1,400	NA	NA	21.24	8.52	12.72	NA
S-2	10/18/1993	23,000	18,000e	3,700	200	2,100	1,600	NA	NA	21.24	9.36	11.88	NA
S-2 (D)	10/18/1993	28,000	14,000e	3,700	210	2,100	1,600	NA	NA	21.24	9.36	11.88	NA
S-2	01/07/1994	120,000	22,000e	6,900	400	3,100	2,600	NA	NA	21.24	8.37	12.87	NA
S-2	04/11/1994	34,000	17,000e	4,800	170	1,900	880	NA	NA	21.24	6.96	14.28	NA
S-2	07/14/1994	NA	NA	NA	NA	NA	NA	NA	NA	21.24	7.49	13.75	NA
S-2	07/19/1994	23,000	NA	4,300	210	1,100	1,000	NA	NA	21.24	8.02	13.22	NA

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S-2 (D)	07/19/1994	29,000	NA	4,700	270	1,200	1,200	NA	NA	21.24	8.02	13.22	NA
S-2	10/06/1994	61,000	NA	4,600	290	1,900	1,900	NA	NA	21.24	11.00	10.24	NA
S-2 (D)	10/06/1994	52,000	NA	5,200	270	2,100	1,900	NA	NA	21.24	11.00	10.24	NA
S-2	01/04/1994	23,000	NA	4,500	49	1,300	500	NA	NA	21.24	8.07	13.17	NA
S-2 (D)	01/04/1995	18,000	NA	3,800	33	1,100	390	NA	NA	21.24	8.07	13.17	NA
S-2	04/12/1995	29,000	NA	4,300	210	990	700	NA	NA	21.24	6.12	15.12	NA
S-2	07/07/1995	26,000	NA	4,200	180	1,100	730	NA	NA	21.24	6.35	14.89	NA
S-2	10/05/1995	26,000	10,000	3,500	150	1,100	640	NA	NA	21.24	7.36	13.88	NA
S-2 (D)	10/05/1995	33,000	9,400	4,200	210	1,500	850	NA	NA	21.24	7.36	13.88	NA
S-2	01/12/1996	36,000	13,000	4,100	240	1,400	790	NA	NA	21.24	7.64	13.60	NA
S-2 (D)	01/12/1996	40,000	11,000	4,100	260	1,400	860	NA	NA	21.24	7.64	13.60	NA
S-2	04/02/1996	12,000	7,300	1,300	120	460	150	4,000	NA	21.24	6.18	15.06	NA
S-2 (D)	04/02/1996	17,000	5,800	1,800	29	590	140	7,600	NA	21.24	6.18	15.06	NA
S-2	07/30/1996	18,000	13,000	3,000	100	1,200	420	17,000	19,000	21.24	7.22	14.02	NA
S-2	10/02/1996	28,000	18,000	3,700	110	1,100	260	20,000	NA	21.24	7.60	13.64	NA
S-2 (D)	10/02/1996	25,000	31,000	3,500	100	1,100	260	19,000	NA	21.24	7.60	13.64	NA
S-2	09/19/1997	21,000	11,000	2,300	120	500	110	11,000	NA	21.24	7.45	13.79	2.1
S-2	01/08/1998	35,000	8,100	3,200	260	850	320	23,000	NA	21.24	6.96	14.28	2.3
S-2 (D)	01/08/1998	27,000	5,400	3,400	190	860	200	23,000	NA	21.24	6.96	14.28	2.3
S-2	07/17/1998	19,000	12,000	1,700	130	610	130	13,000	NA	21.24	6.67	14.57	2.3
S-2	01/28/1999	482	99	24	7.52	5.41	63.7	11	NA	21.24	10.63	10.61	2.4
S-2	07/23/1999	320	223	52.0	54.5	14.7	48.6	33.9	NA	21.24	10.12	11.12	2.8
S-3	01/23/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	14.67	8.03	NA
S-3	04/25/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.96	9.74	NA
S-3	07/19/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.45	10.25	NA
S-3	10/09/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.98	9.72	NA
S-3	01/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	13.06	9.64	NA

WELL CONENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	04/27/1992	<50	100	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	7.25	15.45	NA
S-3	07/10/1992	<50	68	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	8.46	14.24	NA
S-3	10/06/1992	<50	<10	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	11.77	10.93	NA
S-3	01/06/1993	<50	<10	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.53	10.17	NA
S-3	04/26/1993	<50	69	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	4.28	18.42	NA
S-3	07/20/1993	<50	120	<0.5	0.6	<0.5	<0.5	NA	NA	22.70	5.70	17.00	NA
S-3	10/18/1993	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	10.30	12.40	NA
S-3 a	01/07/1994	160	58	59	26	4.9	22	NA	NA	22.70	12.40	10.30	NA
S-3	04/11/1994	<50	<50	<0.52	<0.5	<0.5	<0.5	NA	NA	22.70	10.94	11.76	NA
S-3	07/14/1994	NA	NA	NA	NA	NA	NA	NA	NA	22.70	7.90	14.80	NA
S-3	07/19/1994	<50	110d	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	8.12	14.58	NA
S-3	10/06/1994	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.15	10.55	NA
S-3	01/04/1995	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	11.18	11.52	NA
S-3	04/12/1995	<50	110	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	3.76	18.94	NA
S-3	07/07/1995	<50	410	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	4.72	17.98	NA
S-3	10/05/1995	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	5.80	16.90	NA
S-3	01/12/1996	100	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	7.00	15.70	NA
S-3	04/02/1996	<50	170	<0.5	<0.5	<0.5	<0.5	3.4	NA	22.70	3.42	19.28	NA
S-3	07/30/1996	<50	92	<0.5	<0.5	<0.5	<0.5	4.3	NA	22.70	5.89	16.81	NA
S-3	10/02/1996	<50	160	<0.5	<0.5	<0.5	<0.5	4.1	NA	22.70	7.20	15.50	NA
S-3	09/19/1997	<50	260	<0.50	<0.50	<0.50	<0.50	4.3	NA	22.70	6.92	15.78	1.4
S-3 (D)	09/19/1997	<50	290	<0.50	<0.50	<0.50	<0.50	5.2	NA	22.70	6.92	15.78	1.4
S-3	01/08/1998	<50	170	<0.50	<0.50	<0.50	0.92	120	NA	22.70	5.77	16.93	2.7
S-3	07/17/1998	<50	97	<0.50	<0.50	<0.50	<0.50	33	NA	22.71	4.17	18.54	2.7
S-3	01/28/1999	656	<50.0	45.4	10.2	4.98	83.2	87.2	NA	22.71	8.15	14.56	1.8
S-3	07/23/1999	<50.0	77.3	<0.500	<0.500	<0.500	<0.500	39.3	NA	22.71	7.46	15.25	1.9
S-4	07/17/1998	<50	220	<0.50	<0.50	<0.50	<0.50	<2.5	NA	19.96	6.59	13.37	2.5

WELL CONENTRATIONS
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350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-4 (D)	07/17/1998	<50	260	<0.50	<0.50	<0.50	<0.50	<2.5	NA	19.96	6.59	13.37	2.5
S-4	01/28/1999	<50.0	356	0.882	<0.500	<0.500	0.71	<2.00	NA	19.96	10.57	9.39	3.0
S-4	07/23/1999	<50.0	<50	<0.500	<0.500	<0.500	<0.500	8.27	NA	19.96	10.06	9.90	2.1
S-5	07/17/1998	<50	110	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.27	6.78	15.49	2.2
S-5	01/28/1999	<50.0	109	<0.500	<0.500	<0.500	<0.500	<2.00	NA	22.27	10.75	11.52	2.0
S-5	07/23/1999	<50.0	204	<0.500	<0.500	<0.500	<0.500	5.95	NA	22.27	10.21	12.06	1.8
HP-1	01/27/1993	22,000	14,000	2,500	130	1,400	140	NA	NA	NA	NA	NA	NA
HP-2	01/27/1993	<50	NA	<0.5	4.4	<0.5	<0.5	NA	NA	NA	NA	NA	NA
HP-3	01/27/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA

WELL CONENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Abbreviations:

TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether

TOB = Top of Wellbox Elevation

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

HP = Hydropunch ground water sample

NA = Not applicable

Notes:

a = TPPH/BETX concentrations anomalous with historical data. Lab verified concentrations.

b = Compounds reported as TPH-D appear to be the less volatile constituents of gasoline.

c = Compounds reported as TPH-D are primarily due to the presence of a heavier petroleum product, possibly motor oil.

d = Chromatogram pattern indicated an unidentified hydrocarbon.

e = Compounds reported as TPH-D are primarily due to the presence of lighter petroleum product, possibly gasoline.

Wells S-1, S-3, S-4, and S-5 surveyed on May 4, 1998 by Virgil Chavez Land Surveying of Vallejo, California.



Sequoia Analytical

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

August 12, 1999

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

RE: Equiva 350 Grand Ave. Oakland/9070060

Dear Ann Pember

Enclosed are the results of analyses for sample(s) received by the laboratory on July 26, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai
Project Manager D.M.

CA ELAP Certificate Number 1210





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 350 Grand Ave., Oakland Project Manager: Ann Pember	Sampled: 7/23/99 Received: 7/26/99 Reported: 8/12/99
--	---	--

ANALYTICAL REPORT FOR 9070060

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S-1	9070060-01	Water	7/23/99
S-2	9070060-02	Water	7/23/99
S-3	9070060-03	Water	7/23/99
S-4	9070060-04	Water	7/23/99
S-5	9070060-05	Water	7/23/99





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 350 Grand Ave., Oakland Project Manager: Ann Pember	Sampled: 7/23/99 Received: 7/26/99 Reported: 8/12/99
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**Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
S-1				9070060-01			Water	
Diesel Range Hydrocarbons	9071029	7/30/99	8/3/99		0.0500	ND	mg/l	
Surrogate: n-Pentacosane	"	"	"	50.0-150		91.1	%	
S-2				9070060-02			Water	
Diesel Range Hydrocarbons	9071029	7/30/99	8/3/99		0.0500	0.223	mg/l	1
Surrogate: n-Pentacosane	"	"	"	50.0-150		95.1	%	
S-3				9070060-03			Water	
Diesel Range Hydrocarbons	9071029	7/30/99	8/3/99		0.0500	0.0773	mg/l	1
Surrogate: n-Pentacosane	"	"	"	50.0-150		103	%	
S-4				9070060-04			Water	
Diesel Range Hydrocarbons	9071029	7/30/99	8/3/99		0.0500	ND	mg/l	
Surrogate: n-Pentacosane	"	"	"	50.0-150		94.9	%	
S-5				9070060-05			Water	
Diesel Range Hydrocarbons	9071029	7/30/99	8/3/99		0.0500	0.204	mg/l	1
Surrogate: n-Pentacosane	"	"	"	50.0-150		96.5	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 350 Grand Ave., Oakland Project Manager: Ann Pember	Sampled: 7/23/99 Received: 7/26/99 Reported: 8/12/99
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**Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9071029			Date Prepared: 7/30/99			Extraction Method: EPA 3510B				
Blank			9071029-BLK1							
Diesel Range Hydrocarbons	8/3/99			ND	mg/l	0.0500				
Surrogate: <i>n</i> -Pentacosane	"	0.100		0.106	"	50.0-150	106			
LCS			9071029-BS1							
Diesel Range Hydrocarbons	8/3/99	1.00		0.912	mg/l	60.0-140	91.2			
Surrogate: <i>n</i> -Pentacosane	"	0.100		0.0959	"	50.0-150	95.9			
LCS Dup			9071029-BSD1							
Diesel Range Hydrocarbons	8/3/99	1.00		0.995	mg/l	60.0-140	99.5	50.0	8.70	
Surrogate: <i>n</i> -Pentacosane	"	0.100		0.107	"	50.0-150	107			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 350 Grand Ave., Oakland Project Manager: Ann Pember	Sampled: 7/23/99 Received: 7/26/99 Reported: 8/12/99
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Notes and Definitions

#	Note
1	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
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





Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

August 6, 1999

Kayvan Kimyai
Sequoia Analytical - Morgan Hill
885 Jarvis Drive
Morgan Hill, CA 95037

RE: Kayvan Kimyai/P908060

Dear Kayvan Kimyai

Enclosed are the results of analyses for sample(s) received by the laboratory on July 26, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michelle M. Pardo

for: Lisa Ondo
Project Manager

CA ELAP Certificate Number I-2374





Sequoia Analytical - Morgan Hill
885 Jarvis Drive
Morgan Hill, CA 95037

Project: Kayvan Kimyai
Project Number: 9070060
Project Manager: Kayvah Kimyai

Sampled: 7/23/99
Received: 7/26/99
Reported: 8/6/99

ANALYTICAL REPORT FOR P908060

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
9070060-01/S-1	P908060-01	Water	7/23/99
9070060-02/S-2	P908060-02	Water	7/23/99
9070060-03/S-3	P908060-03	Water	7/23/99
9070060-04/S-4	P908060-04	Water	7/23/99
9070060-05/S-5	P908060-05	Water	7/23/99





Sequoia Analytical - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: Kayvan Kimyai Project Number: 9070060 Project Manager: Kayvan Kimyai	Sampled: 7/23/99 Received: 7/26/99 Reported: 8/6/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
 Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
9070060-01/S-1				P908060-01			Water	
Gasoline	9080088	8/4/99	8/5/99		50.0	537	ug/l	
Benzene	"	"	"		0.500	81.1	"	
Toluene	"	"	"		0.500	91.3	"	
Ethylbenzene	"	"	"		0.500	24.8	"	
Xylenes (total)	"	"	"		0.500	81.6	"	
Methyl tert-butyl ether	"	"	"		2.00	47.9	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		104	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		91.3	"	
9070060-02/S-2				P908060-02			Water	
Gasoline	9080088	8/4/99	8/5/99		50.0	320	ug/l	
Benzene	"	"	"		0.500	52.0	"	
Toluene	"	"	"		0.500	54.5	"	
Ethylbenzene	"	"	"		0.500	14.7	"	
Xylenes (total)	"	"	"		0.500	48.6	"	
Methyl tert-butyl ether	"	"	"		2.00	33.9	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		105	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		91.3	"	
9070060-03/S-3				P908060-03			Water	
Gasoline	9080088	8/4/99	8/4/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	39.3	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		102	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		92.0	"	
9070060-04/S-4				P908060-04			Water	
Gasoline	9080088	8/4/99	8/4/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	8.27	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		103	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		93.3	"	
9070060-05/S-5				P908060-05			Water	
Gasoline	9080088	8/4/99	8/4/99		50.0	ND	ug/l	





Sequoia Analytical - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: Kayvan Kimyai Project Number: 9070060 Project Manager: Kayvan Kimyai	Sampled: 7/23/99 Received: 7/26/99 Reported: 8/6/99
---	---	---

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
9070060-05/S-5 (continued)				P908060-05			Water	
Benzene	9080088	8/4/99	8/4/99		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	5.95	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	65.0-135		116	%	
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"	65.0-135		90.0	"	





Sequoia Analytical - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: Kayvan Kimyai Project Number: 9070060 Project Manager: Kayvan Kimyai	Sampled: 7/23/99 Received: 7/26/99 Reported: 8/6/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
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Batch: 9080088

Date Prepared: 8/4/99

Extraction Method: EPA 5030 waters

Blank

9080088-BLK1

Gasoline	8/4/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.00				
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	300		339	"	65.0-135	113			
Surrogate: 4-Bromofluorobenzene	"	300		293	"	65.0-135	97.7			

LCS

9080088-BS1

Gasoline	8/4/99	1000		1000	ug/l	65.0-135	100			
Surrogate: 4-Bromofluorobenzene	"	300		285	"	65.0-135	95.0			

Matrix Spike

9080088-MS1

P908060-05

Gasoline	8/4/99	1000	ND	881	ug/l	65.0-135	88.1			
Surrogate: 4-Bromofluorobenzene	"	300		260	"	65.0-135	86.7			

Matrix Spike Dup

9080088-MSD1

P908060-05

Gasoline	8/4/99	1000	ND	927	ug/l	65.0-135	92.7	20.0	5.09	
Surrogate: 4-Bromofluorobenzene	"	300		259	"	65.0-135	86.3			





Sequoia Analytical - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: Kayvan Kimyai Project Number: 9070060 Project Manager: Kayvan Kimyai	Sampled: 7/23/99 Received: 7/26/99 Reported: 8/6/99
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Notes and Definitions

#	Note
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- 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



9070060

BLAINE

TECH SERVICES INC.

1880 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1106
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY **990723-PA**

CLIENT Equiva - Karen Petryna

SITE 350 Grand Ave.
Oakland, CA

CONDUCT ANALYSIS TO DETECT						
C - COMPOSITE ALL CONTAINERS	TPH - Gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	

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 # 98995755

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.	MATRIX		CONTAINERS	C - COMPOSITE ALL CONTAINERS	TPH - Gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
	S - SOIL	W - H2O											
S-1 ✓	W	S			X	X		X					
S-2 ✓	↓	↓			↓	↓		↓					
S-3 ✓	↓	↓			↓	↓		↓					→ 25 11 19
S-4 ✓	↓	4			↓	↓		↓					
S-5 ✓	↓	4			↓	↓		↓					

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	7-23-99	15:00	Paul Sanner		
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	9-23-99	9:47	<i>[Signature]</i>	7-26-99	5:27
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>					
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	7-26-99				
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		

SHELL WELL MONITORING DATA SHEET

Project #: 990723-P4	WIC #: 20A-SS10-0204
Sampler: Paul	Date: 7-23-99
Well I.D.: 5-1	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 17.70	Depth to Water: 10.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump

Other: _____

Sampling Method: Bailer Extraction Port

Other: _____

<u>2.5</u>	x	<u>3</u>	=	<u>7.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
15:32	70.8	7.4	526	29	2.5	
15:33	70.4	7.3	471	17	5.0	
15:34	70.2	7.3	433	12	7.5	

Did well dewater? Yes No Gallons actually evacuated: 2.5

Sampling Time: 15:40 Sampling Date: 7-23-99

Sample I.D.: 5-1 Laboratory: Séquoia Crosby

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

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

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

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

SHELL WELL MONITORING DATA SHEET

Project #: 490723-P4	WIC #: 204-SS10-0204
Sampler: PA-1	Date: 7-23-95
Well I.D.: S-2	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: 15.10	Depth to Water: 10.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>(Grade)</u>	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
<u>(3")</u>	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

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

Sampling Method: Bailer ✓ Extraction Port
 Other: _____

<u>1.8</u>	x	<u>3</u>	=	<u>5.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
15:06	71.6	7.3	426	21	2	
15:07	71.4	7.2	411	19	4	
15:18	70.8	7.2	396	17	6	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Time: 15:15 Sampling Date: 7-23-95

Sample I.D.: S-2 Laboratory: (Sequoia) Crosby

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	<u>(Post-purge)</u>	2.6	mg/L
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SHELL WELL MONITORING DATA SHEET

Project #: 990723-P4	WIC #: 204-5510-0204
Sampler: Paul	Date: 7-23-99
Well I.D.: S-3	Well Diameter: 2 (3) 4 6 8 <u> </u>
Total Well Depth: 15.07	Depth to Water: 7.46
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC (Grade)	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump

Other: _____

Sampling Method: Bailer Extraction Port

Other: _____

2.8	x	3	=	8.4	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
14:42	70.2	7.5	396	46	3	
14:43	69.8	7.4	342	38	6	
14:44	69.4	7.4	321	29	9	

Did well dewater? Yes No

Gallons actually evacuated: **9**

Sampling Time: **14:50** Sampling Date: **7-23-99**

Sample I.D.: **S-3** Laboratory: **(Sequoia)** Crosby

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

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

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

D.O. (if req'd): Pre-purge: _____ mg/L **(Post-purge: 1.9)** mg/L

EQUIVA WELL MONITORING DATA SHEET

Project #: <u>990723-p4</u>	Job # <u>204-5510-0204</u>
Sampler: <u>Paul</u>	Date: <u>7-23-99</u>
Well I.D.: <u>S-A</u>	Well Diameter: 2 3 4 6 8 <u>1</u>
Total Well Depth: <u>14.91</u>	Depth to Water: <u>10.06</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Sampling Method: Bailer
Middleburg Extraction Port
Electric Submersible Other: P: 7
Extraction Pump
Other: P: 7

<u>.25</u>	X	<u>3</u>	=	<u>.75</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>14:12</u>	<u>71.8</u>	<u>7.2</u>	<u>1172</u>	<u>56</u>	<u>.25</u>	
<u>14:17</u>	<u>71.2</u>	<u>7.1</u>	<u>1169</u>	<u>47</u>	<u>.50</u>	
<u>14:25</u>	<u>70.6</u>	<u>7.1</u>	<u>1154</u>	<u>39</u>	<u>.75</u>	

Did well dewater? Yes No Gallons actually evacuated: .75

Sampling Time: 14:30 Sampling Date: 7-23-99

Sample I.D.: S-A Laboratory: Sequoia BC Other _____

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

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

EQUIVA WELL MONITORING DATA SHEET

Project #: <u>990723-PA</u>	Job # <u>204-5510-0204</u>
Sampler: <u>Paul</u>	Date: <u>7-23-99</u>
Well I.D.: <u>S-5</u>	Well Diameter: 2 3 4 6 8 <u>1</u>
Total Well Depth: <u>13.39</u>	Depth to Water: <u>10.21</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Sampling Method: Bailer
Middleburg Extraction Port
Electric Submersible Other: Pin
Extraction Pump
Other: Pin

<u>.20</u>	<u>X</u>	<u>3</u>	<u>=</u>	<u>.60</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>13:42</u>	<u>70.2</u>	<u>7.0</u>	<u>1089</u>	<u>>200</u>	<u>.2</u>	
<u>13:47</u>	<u>70.0</u>	<u>7.1</u>	<u>1021</u>	<u>>200</u>	<u>.4</u>	
<u>13:55</u>	<u>69.8</u>	<u>7.1</u>	<u>1008</u>	<u>>200</u>	<u>.6</u>	

Did well dewater? Yes No Gallons actually evacuated: .6

Sampling Time: 14:00 Sampling Date: 7-23-99

Sample I.D.: S-5 Laboratory: Sequoia BC Other _____

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

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