

June 27, 2001

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

Re: **First Quarter 2001 Monitoring Report**  
Shell-branded Service Station  
350 Grand Avenue  
Oakland, California  
Incident #98995755  
Cambria Project #243-0715-002



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.


## FIRST QUARTER 2001 ACTIVITIES

**Groundwater Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled wells S-1, S-2, S-3 and S-5 on January 12, 2001. Well S-4 was inaccessible during the initial site visit. On January 25, 2001, Blaine returned to collect samples from well S-4 and to collect a total petroleum hydrocarbons as diesel sample (which was missed during the initial sampling event) from well S-5. The analytical results for wells S-2 and S-3 from the January 12, 2001 sampling event were not consistent with historical results, and wells S-1, S-2 and S-3 were re-sampled on February 16, 2001; however, wells S-4 and S-5 were inaccessible during the sampling event. The analytical results from the February 16, 2001 sampling event were consistent with historical data. Blaine calculated groundwater elevations and compiled the analytical data for all three sampling events. Cambria prepared a groundwater elevation contour map using the groundwater elevation data from the January 12, 2001 event (Figure 1). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

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

**ANTICIPATED FUTURE ACTIVITIES**

**Dual-Phase Vapor Extraction DVE Event:** Due to the elevated methyl tertiary-butyl ether concentrations reported in well S-2 during recent semi-annual monitoring events, Cambria proposes to conduct a one-time DVE event on well S-2. DVE is the process of using a down-well stinger to apply high vacuum (up to 29 inches of mercury) to a well through an airtight well-head seal. DVE locally draws down the water table to allow simultaneous extraction of both soil vapors and groundwater. Groundwater generated during DVE will be stored in a vacuum tank truck and transported offsite following the completion of the testing. In order to evaluate the effectiveness of DVE on well S-2, the DVE event will be conducted prior to the next sampling event during the third quarter 2001.

The following presents a summary of DVE testing procedures:

- Hand measuring initial groundwater levels and collecting groundwater-level data in the pumping and observation wells,
- Configuring and installing DVE equipment,
- Performing DVE,
- Monitoring observation wells for vacuum and groundwater levels during each test,
- Monitoring and recording groundwater recovery, and
- Recording test start and end times, water levels, soil and groundwater flow rates, soil vapor concentrations, and vacuum influence on data sheets.

**Groundwater Monitoring:** As recommended in an April 25, 2001 letter from the Alameda County Health Care Services Agency, quarterly monitoring of wells S-2 and S-4 will occur beginning with the third quarter of 2001 sampling event. At that time, Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**



Jacquelyn L. Jones  
Project Geologist



Diane M. Lundquist, P.E.  
Principal Engineer



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 91510-7869  
Gursharnjeet Cheema, 1060 St. Raphael Drive, Bay Point, CA 94565

G:\Oakland 350 Grand\QM\lq01qm.doc

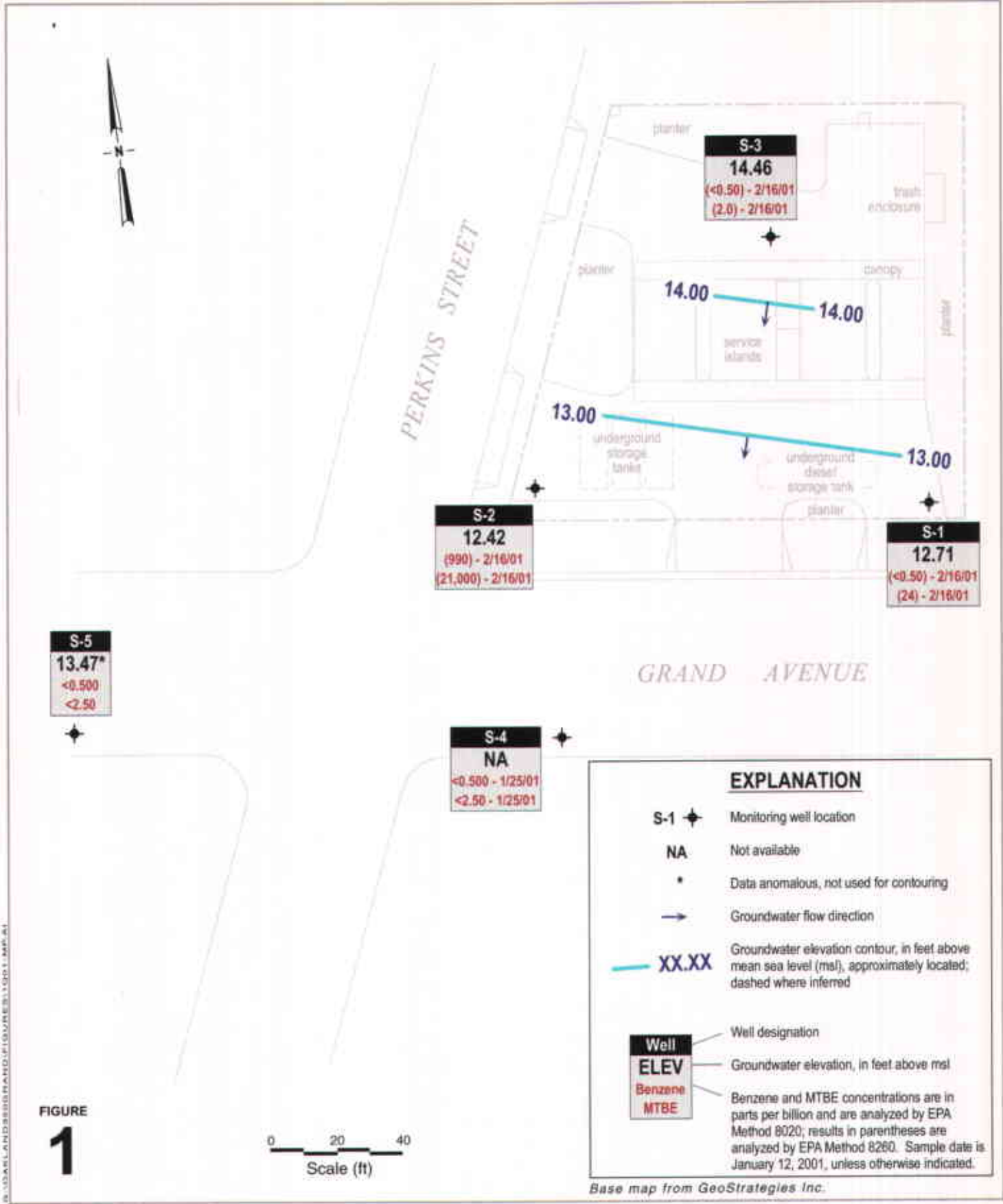


FIGURE 1

0 20 40  
Scale (ft)

**Shell-branded Service Station**  
 350 Grand Avenue  
 Oakland, California  
 Incident #98995755



C A M B R I A

**Groundwater Elevation  
 Contour Map**

January 12, 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

March 21, 2001

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

First Quarter 2001 Groundwater Monitoring at  
Shell-branded Service Station  
350 Grand Avenue  
Oakland, CA

Monitoring performed on January 12, 25 and  
February 16, 2001

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Groundwater Monitoring Report 010216-Y-1

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", with a long horizontal flourish extending to the right.

Deidre Kerwin  
Operations Manager

DK/jt

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

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

**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-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



**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	01/12/1996	230	1,500	2.5	<0.5	0.9	0.6	NA	NA	20.84	8.02	12.82	NA
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-1	01/24/2000	<50.0	79.6	<0.500	<0.500	<0.500	<0.500	8.41	NA	20.86	8.42	12.44	2.2
S-1	07/27/2000	<50.0	127	<0.500	<0.500	<0.500	<0.500	31.9	NA	20.86	7.34	13.52	1.6
S-1	01/12/2001	<50.0	225	<0.500	<0.500	<0.500	<0.500	35.9	NA	20.86	8.15	12.71	1.8
S-1g	02/16/2001	<50	140	<0.50	<0.50	<0.50	1.0	NA	24	20.86	7.42	13.44	6.1

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	01/08/1993	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

**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-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
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

**WELL CONCENTRATIONS**  
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**Oakland, CA**  
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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-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	2.6
S-2	01/24/2000	18,500	7,600	1,440	140	472	68.9	6,940	NA	21.24	8.63	12.61	1.6
S-2	07/27/2000	14,900	10,200	1,250	98.8	437	<50.0	22,200	30,200	21.24	7.94	13.30	2.0
S-2f	01/12/2001	<50.0	96.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	21.24	8.82	12.42	1.9
S-2g	02/16/2001	20,000	<5,000	990	93	450	63	NA	21,000	21.24	7.10	14.14	1.6

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
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

**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	04/12/1995	<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-3	01/24/2000	<50.0	77.2	<0.500	<0.500	<0.500	<0.500	12.0	NA	22.71	5.92	16.79	2.1
S-3	07/27/2000	<50.0	142	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.71	6.54	16.17	1.7
S-3f	01/12/2001	17,200	8,050	930	88.8	497	57.0	23,200	18,500	22.71	8.25	14.46	1.7
S-3g	02/16/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	2.0	22.71	11.37	11.34	NA

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
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-4	01/24/2000	Unable to sample		NA	NA	NA	NA	NA	NA	19.96	8.29	11.67	NA
S-4	02/02/2000	<50.0	410	<0.500	<0.500	<0.500	<0.500	<5.00	NA	19.96	9.93	10.03	2.0
S-4	07/27/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	08/02/2000	<50.0	265	<0.500	<0.500	<0.500	<0.500	<2.50	NA	19.96	8.05	11.91	2.0

**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-4	01/12/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	01/25/2001	<50.0	235	<0.500	0.629	0.656	4.65	<2.50	NA	19.96	10.12	9.84	2.0
S-4	02/16/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
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
S-5	01/24/2000	Unable to sample		NA	NA	NA	NA	NA	NA	22.27	8.23	14.04	NA
S-5	02/02/2000	<50.0	172	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.27	10.15	12.12	1.9
S-5	07/27/2000	<50.0	119	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.27	7.41	14.86	2.0
S-5	01/12/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.27	8.80	13.47	NA
S-5	01/25/2001	NA	193	NA	NA	NA	NA	NA	NA	22.27	9.77	12.50	1.7
S-5	02/16/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	22.27	NA	NA	NA
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 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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**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

ppm =parts per million

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

HP = Hydropunch ground water sample

NA = Not applicable

**Notes:**

a = TPPH/BTEX 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.

f = Wells resampled due to anomalous data.

g = TPPH and BTEX analyzed by EPA Method 8260B.

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

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Morgan Hill, CA 95037  
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30 January, 2001

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

RE: 350 Grand Ave.  
Sequoia Report: MKA0334

Enclosed are the results of analyses for samples received by the laboratory on 01/15/01 12:31. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson  
Client Services Manager

CA ELAP Certificate #1210



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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
01/30/01 11:03

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	MKA0334-01	Water	01/12/01 14:30	01/15/01 12:31
S-2	MKA0334-02	Water	01/12/01 14:50	01/15/01 12:31
S-3	MKA0334-03	Water	01/12/01 14:02	01/15/01 12:31
S-5	MKA0334-04	Water	01/12/01 13:42	01/15/01 12:31

Sequoia Analytical - Morgan Hill

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

Wayne Stevenson, Client Services Manager







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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
01/30/01 11:03

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-1 (MKA0334-01) Water</b> Sampled: 01/12/01 14:30 Received: 01/15/01 12:31									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A19003	01/19/01	01/19/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	35.9	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.3 %	70-130	"	"	"	"	"	
<b>S-2 (MKA0334-02) Water</b> Sampled: 01/12/01 14:50 Received: 01/15/01 12:31									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A19003	01/19/01	01/19/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.6 %	70-130	"	"	"	"	"	
<b>S-3 (MKA0334-03) Water</b> Sampled: 01/12/01 14:02 Received: 01/15/01 12:31									
Purgeable Hydrocarbons	17200	1000	ug/l	20	1A23004	01/23/01	01/23/01	DHS LUFT	P-01
Benzene	930	10.0	"	"	"	"	"	"	
Toluene	88.8	10.0	"	"	"	"	"	"	
Ethylbenzene	497	10.0	"	"	"	"	"	"	
Xylenes (total)	57.0	10.0	"	"	"	"	"	"	
Methyl tert-butyl ether	23200	1000	"	400	"	"	01/19/01	"	A-01,M-03
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %	70-130	"	"	"	01/23/01	"	





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
01/30/01 11:03

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-5 (MKA0334-04) Water Sampled: 01/12/01 13:42 Received: 01/15/01 12:31</b>									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A22002	01/22/01	01/22/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %		70-130	"	"	"	"	





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
01/30/01 11:03

**Diesel Hydrocarbons (C9-C24) by DHS LUFT  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-1 (MKA0334-01) Water</b> Sampled: 01/12/01 14:30 Received: 01/15/01 12:31									
Diesel Range Hydrocarbons	225	50.0	ug/l	1	1A18032	01/18/01	01/23/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		104 %	50-150		"	"	"	"	
<b>S-2 (MKA0334-02) Water</b> Sampled: 01/12/01 14:50 Received: 01/15/01 12:31									
Diesel Range Hydrocarbons	96.0	50.0	ug/l	1	1A18032	01/18/01	01/23/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		107 %	50-150		"	"	"	"	
<b>S-3 (MKA0334-03) Water</b> Sampled: 01/12/01 14:02 Received: 01/15/01 12:31									
Diesel Range Hydrocarbons	8050	500	ug/l	10	1A18032	01/18/01	01/26/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		93.4 %	50-150		"	"	"	"	





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
01/30/01 11:03

**MTBE Confirmation by EPA Method 8260A  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-3 (MKA0334-03) Water</b> Sampled: 01/12/01 14:02 Received: 01/15/01 12:31									
Methyl tert-butyl ether	18500	1000	ug/l	1000	1A25005	01/24/01	01/24/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		71.4 %	70-130		"	"	"	"	





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

Reported:  
01/30/01 11:03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1A19003 - EPA 5030B [P/T]

#### Blank (1A19003-BLK1)

Prepared & Analyzed: 01/19/01

Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.12		"	10.0		81.2	70-130			

#### LCS (1A19003-BS1)

Prepared & Analyzed: 01/19/01

Purgeable Hydrocarbons	254	50.0	ug/l	250	ND	102	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	14.4		"	10.0		144	70-130			S-02

#### Matrix Spike (1A19003-MS1)

Source: MKA0247-01

Prepared & Analyzed: 01/19/01

Purgeable Hydrocarbons	279	50.0	ug/l	250	ND	112	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	14.2		"	10.0		142	70-130			S-02

#### Matrix Spike Dup (1A19003-MSD1)

Source: MKA0247-01

Prepared & Analyzed: 01/19/01

Purgeable Hydrocarbons	303	50.0	ug/l	250	ND	121	60-140	8.25	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	14.2		"	10.0		142	70-130			S-02

### Batch 1A22002 - EPA 5030B [P/T]

#### Blank (1A22002-BLK1)

Prepared & Analyzed: 01/22/01

Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.80		"	10.0		98.0	70-130			





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
01/30/01 11:03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1A22002 - EPA 5030B [P/T]

#### LCS (1A22002-BS1)

Prepared & Analyzed: 01/22/01

Benzene	8.95	0.500	ug/l	10.0		89.5	70-130			
Toluene	9.63	0.500	"	10.0		96.3	70-130			
Ethylbenzene	10.6	0.500	"	10.0		106	70-130			
Xylenes (total)	30.5	0.500	"	30.0		102	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.72		"	10.0		97.2	70-130			

#### Matrix Spike (1A22002-MS1)

Source: MKA0335-02

Prepared & Analyzed: 01/22/01

Benzene	9.77	0.500	ug/l	10.0	ND	97.7	60-140			
Toluene	10.7	0.500	"	10.0	ND	107	60-140			
Ethylbenzene	10.6	0.500	"	10.0	ND	106	60-140			
Xylenes (total)	30.4	0.500	"	30.0	ND	101	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.42		"	10.0		94.2	70-130			

#### Matrix Spike Dup (1A22002-MSD1)

Source: MKA0335-02

Prepared & Analyzed: 01/22/01

Benzene	10.1	0.500	ug/l	10.0	ND	101	60-140	3.32	25	
Toluene	10.8	0.500	"	10.0	ND	108	60-140	0.930	25	
Ethylbenzene	11.6	0.500	"	10.0	ND	116	60-140	9.01	25	
Xylenes (total)	33.4	0.500	"	30.0	ND	111	60-140	9.40	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	12.5		"	10.0		125	70-130			

### Batch 1A23004 - EPA 5030B [P/T]

#### Blank (1A23004-BLK1)

Prepared & Analyzed: 01/23/01

Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	70-130			



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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

Reported:  
01/30/01 11:03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1A23004 - EPA 5030B [P/T]</b>										
<b>LCS (1A23004-BS1)</b>					Prepared & Analyzed: 01/23/01					
Purgeable Hydrocarbons	271	50.0	ug/l	250		108	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.0		"	10.0		100	70-130			
<b>Matrix Spike (1A23004-MS1)</b>					Source: MKA0381-04 Prepared & Analyzed: 01/23/01					
Purgeable Hydrocarbons	289	50.0	ug/l	250	ND	116	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.87		"	10.0		98.7	70-130			
<b>Matrix Spike Dup (1A23004-MSD1)</b>					Source: MKA0381-04 Prepared & Analyzed: 01/23/01					
Purgeable Hydrocarbons	260	50.0	ug/l	250	ND	104	60-140	10.6	25	
Surrogate: a,a,a-Trifluorotoluene	9.78		"	10.0		97.8	70-130			





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
01/30/01 11:03

**Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1A18032 - EPA 3510B</b>										
<b>Blank (1A18032-BLK1)</b>				Prepared: 01/18/01 Analyzed: 01/23/01						
Diesel Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: n-Pentacosane	99.8		"	100		99.8	50-150			
<b>LCS (1A18032-BS1)</b>				Prepared: 01/18/01 Analyzed: 01/23/01						
Diesel Range Hydrocarbons	919	50.0	ug/l	1000		91.9	60-140			
Surrogate: n-Pentacosane	98.9		"	100		98.9	50-150			
<b>Matrix Spike (1A18032-MS1)</b>				Source: MKA0396-01 Prepared: 01/18/01 Analyzed: 01/23/01						
Diesel Range Hydrocarbons	1220	50.0	ug/l	1000	255	96.5	50-150			
Surrogate: n-Pentacosane	108		"	100		108	50-150			
<b>Matrix Spike Dup (1A18032-MSD1)</b>				Source: MKA0396-01 Prepared: 01/18/01 Analyzed: 01/23/01						
Diesel Range Hydrocarbons	1170	50.0	ug/l	1000	255	91.5	50-150	4.18	50	
Surrogate: n-Pentacosane	103		"	100		103	50-150			







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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
01/30/01 11:03

**MTBE Confirmation by EPA Method 8260A - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
<b>Batch 1A25005 - EPA 5030B [P/T]</b>										
<b>Blank (1A25005-BLK1)</b>				Prepared & Analyzed: 01/24/01						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	7.75		"	10.0		77.5	70-130			
<b>LCS (1A25005-BS1)</b>				Prepared & Analyzed: 01/24/01						
Methyl tert-butyl ether	10.2	1.00	ug/l	10.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	8.78		"	10.0		87.8	70-130			
<b>Matrix Spike (1A25005-MS1)</b>				Source: MKA0337-02		Prepared & Analyzed: 01/24/01				
Methyl tert-butyl ether	731	20.0	ug/l	200	709	11.0	70-130			Q-02
Surrogate: 1,2-Dichloroethane-d4	8.07		"	10.0		80.7	70-130			
<b>Matrix Spike Dup (1A25005-MSD1)</b>				Source: MKA0337-02		Prepared & Analyzed: 01/24/01				
Methyl tert-butyl ether	740	20.0	ug/l	200	709	15.5	70-130	1.22	25	Q-02
Surrogate: 1,2-Dichloroethane-d4	7.34		"	10.0		73.4	70-130			



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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
01/30/01 11:03

### Notes and Definitions

- A-01 MTBE was prepared on 1/19/01:
- D-15 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
- M-03 Sample was analyzed at a second dilution.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-02 The spike recovery for this quality control sample is outside of the established control limits due to interference from the sample matrix. However, the accuracy of the data was validated by a laboratory control sample which was within acceptance limits.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



LAB: Sequicia

# EQUIVÁ Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- QM/ HOUSTON

Karen Petryna

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 5

S&E CONTRACT NUMBER (S/CRMT)

DATE: 11/12/01

PAGE: 1 of 1

CONTRACT COMPANY:  
**Blizno Tech Services**  
 1680 Rogers Avenue  
 San Jose, CA 95112  
 TELEPHONE: 408-573-0555 FAX: 408-573-7771  
 E-MAIL: msudano@bliznotech.com

SITE ADDRESS (Street and City):  
**350 Grand Avenue, Oakland**

PROJECT CONTRACT (Region ID):  
 Nick Sudano  
 OPERATOR NAME(S) (Print): Oscar Augusto  
 CONSULTANT PROJECT NO.: **BTS# 010117-AZ**

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

REQUESTED ANALYSIS: MKA0334

LA - RVQCS REPORT FORMAT  LIST AGENCY: \_\_\_\_\_  
 GC/MS MTBE CONFIRMATION: HIGHEST  HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_  
 SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C° \_\_\_\_\_



### FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable (8016m)	BTX (8021B)	MTBE (8021B)	MTBE (8260B)	TPH - Diesel, Extractable (8015m)	Organics (S) by (8260B)	Ethanol, Methanol (8015B)	MTBE (8260B) Confirmation, See Note
			DATE	TIME										
1	S-1	11/12/01	1930	W	5	X	X	X		X				X
2	S-2	11/12/01	1919	W	5	X	X	X		X				X
3	S-3	11/12/01	1402	W	5	X	X	X		X				X
4	S-5	11/12/01	1372	W	5	X	X	X						X

Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>11/15/01</u>	Time: <u>11:45</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>11/13/01</u>	Time: <u>1145</u>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:



# Sequoia Analytical

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

9 February, 2001

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

RE: 350 Grand Ave.  
Sequoia Report: MKA0688

Enclosed are the results of analyses for samples received by the laboratory on 01/26/01 14:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson  
Client Services Manager

CA ELAP Certificate #1210



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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

Reported:  
02/09/01 14:54

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-4	MKA0688-01	Water	01/25/01 06:22	01/26/01 14:41
S-5	MKA0688-02	Water	01/25/01 07:37	01/26/01 14:41





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

Reported:  
02/09/01 14:54

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-4 (MKA0688-01) Water</b> Sampled: 01/25/01 06:22 Received: 01/26/01 14:41									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A30002	01/30/01	01/30/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.629	0.500	"	"	"	"	"	"	
Ethylbenzene	0.656	0.500	"	"	"	"	"	"	
Xylenes (total)	4.65	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %		70-130	"	"	"	"	





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

Reported:  
02/09/01 14:54

## Diesel Hydrocarbons (C9-C24) by DHS LUFT Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-4 (MKA0688-01) Water</b> Sampled: 01/25/01 06:22 Received: 01/26/01 14:41									
Diesel Range Hydrocarbons	235	114	ug/l	1	1B02016	02/02/01	02/06/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		86.3 %	50-150		"	"	"	"	
<b>S-5 (MKA0688-02) Water</b> Sampled: 01/25/01 07:37 Received: 01/26/01 14:41									
Diesel Range Hydrocarbons	193	50.0	ug/l	1	1B02016	02/02/01	02/06/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		99.6 %	50-150		"	"	"	"	





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

Reported:  
02/09/01 14:54

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1A30002 - EPA 5030B [P/T]</b>										
<b>Blank (1A30002-BLK1)</b> Prepared & Analyzed: 01/30/01										
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	70-130			
<b>LCS (1A30002-BS1)</b> Prepared & Analyzed: 01/30/01										
Purgeable Hydrocarbons	245	50.0	ug/l	250		98.0	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.45		"	10.0		94.5	70-130			
<b>Matrix Spike (1A30002-MS1)</b> Source: MKA0637-10 Prepared & Analyzed: 01/30/01										
Purgeable Hydrocarbons	244	50.0	ug/l	250	ND	97.6	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.4		"	10.0		104	70-130			
<b>Matrix Spike Dup (1A30002-MSD1)</b> Source: MKA0637-10 Prepared & Analyzed: 01/30/01										
Purgeable Hydrocarbons	245	50.0	ug/l	250	ND	98.0	60-140	0.409	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	70-130			







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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

Reported:  
02/09/01 14:54

## Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
<b>Batch 1B02016 - EPA 3510B</b>										
<b>Blank (1B02016-BLK1)</b>				Prepared: 02/02/01 Analyzed: 02/05/01						
Diesel Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: <i>n</i> -Pentacosane	79.3		"	100		79.3	50-150			
<b>LCS (1B02016-BS1)</b>				Prepared: 02/02/01 Analyzed: 02/05/01						
Diesel Range Hydrocarbons	784	50.0	ug/l	1000		78.4	60-140			
Surrogate: <i>n</i> -Pentacosane	82.8		"	100		82.8	50-150			
<b>Matrix Spike (1B02016-MS1)</b>				Source: MKA0520-02		Prepared: 02/02/01 Analyzed: 02/05/01				
Diesel Range Hydrocarbons	3140	50.0	ug/l	1000	2390	75.0	50-150			
Surrogate: <i>n</i> -Pentacosane	128		"	100		128	50-150			
<b>Matrix Spike Dup (1B02016-MSD1)</b>				Source: MKA0520-02		Prepared: 02/02/01 Analyzed: 02/05/01				
Diesel Range Hydrocarbons	2960	50.0	ug/l	1000	2390	57.0	50-150	5.90	50	
Surrogate: <i>n</i> -Pentacosane	121		"	100		121	50-150			





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

Project: 350 Grand Ave.  
Project Number: 350 Grand Ave./ Oakland  
Project Manager: Nick Sudano

**Reported:**  
02/09/01 14:54

### Notes and Definitions

D-15 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  
RPD Relative Percent Difference





## Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
MKA0688-01	TPH-D	Diesel Range Hydrocarbons	D-15
MKA0688-02	TPH-D	Diesel Range Hydrocarbons	D-15









Report Number : 19292

Date : 03/06/2001

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

Subject : 3 Water Samples  
Project Name : 350 Grand Avenue, Oakland  
Project Number : 010216-41

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,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 19292

Date : 03/06/2001

Subject : 3 Water Samples  
Project Name : 350 Grand Avenue, Oakland  
Project Number : 010216-41

## Case Narrative

The Method Reporting Limit for TPH as Diesel has been increased due to interference from Gasoline-Range Hydrocarbons for the following sample:

S-2

Approved By:  \_\_\_\_\_  
Joel Kiff



Report Number : 19292

Date : 03/06/2001

Project Name : 350 Grand Avenue, Oakland

Project Number : 010216-41

Sample : S-1

Matrix : Water

Lab Number : 19292-01

Sample Date :02/16/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	02/25/2001
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	02/25/2001
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	02/25/2001
<b>Total Xylenes</b>	<b>1.0</b>	0.50	ug/L	EPA 8260B	02/25/2001
<b>Methyl-t-butyl ether (MTBE)</b>	<b>24</b>	0.50	ug/L	EPA 8260B	02/25/2001
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	02/25/2001
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	02/25/2001
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	02/25/2001
<b>TPH as Diesel</b>	<b>140</b>	50	ug/L	M EPA 8015	02/24/2001

Sample : S-2

Matrix : Water

Lab Number : 19292-02

Sample Date :02/16/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>990</b>	50	ug/L	EPA 8260B	02/25/2001
<b>Toluene</b>	<b>93</b>	50	ug/L	EPA 8260B	02/25/2001
<b>Ethylbenzene</b>	<b>450</b>	50	ug/L	EPA 8260B	02/25/2001
<b>Total Xylenes</b>	<b>63</b>	50	ug/L	EPA 8260B	02/25/2001
<b>Methyl-t-butyl ether (MTBE)</b>	<b>21000</b>	50	ug/L	EPA 8260B	02/25/2001
<b>TPH as Gasoline</b>	<b>20000</b>	5000	ug/L	EPA 8260B	02/25/2001
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	02/25/2001
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	02/25/2001
<b>TPH as Diesel</b>	<b>&lt; 5000</b>	5000	ug/L	M EPA 8015	02/24/2001

Approved By:  Joel Kiff





Report Number : 19292

Date : 03/06/2001

Project Name : 350 Grand Avenue, Oakland

Project Number : 010216-41

Sample : S-3

Matrix : Water

Lab Number : 19292-03

Sample Date :02/16/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/24/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/24/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/24/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/24/2001
Methyl-t-butyl ether (MTBE)	2.0	0.50	ug/L	EPA 8260B	02/24/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/24/2001
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	02/24/2001
4-Bromofluorobenzene (Surr)	99.4		% Recovery	EPA 8260B	02/24/2001
TPH as Diesel	< 50	50	ug/L	M EPA 8015	02/24/2001

Approved By:  Joel Kiff

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

Report Number : 19292

Date : 03/06/2001

Project Name : **350 Grand Avenue,**

Project Number : **010216-41**

Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>TPH as Diesel</b>	<b>&lt; 50</b>	50	ug/L	M EPA 8015	02/24/2001

Approved By:  Joel Kiff

Report Number : 19292

Date : 03/06/2001

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **350 Grand Avenue,**

Project Number : **010216-41**

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
Spike Recovery Data														
TPH as Diesel	Blank	<50	1000	1000	726	762	ug/L	M EPA 8015	02/23/2007	72.6	76.2	4.78	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff



Report Number : 19292

Date : 03/06/2001

Project Name : **350 Grand Avenue,**

Project Number : **010216-41**

Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	02/26/2001
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	02/26/2001
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	02/26/2001
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	02/26/2001
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	02/26/2001
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	02/26/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	02/26/2001
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	02/26/2001

Approved By:  Joel Kiff

Report Number : 19292


Date : 03/06/2001

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **350 Grand Avenue,**

Project Number : **010216-41**

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
<b>Spike Recovery Data</b>														
Benzene	19312-05	<0.50	24.6	24.5	22.0	22.1	ug/L	EPA 8260B	02/26/200	89.5	90.1	0.601	70-130	25
Toluene	19312-05	<0.50	24.6	24.5	22.0	23.1	ug/L	EPA 8260B	02/26/200	89.8	94.4	4.99	70-130	25
Tert-Butanol	19312-05	<5.0	24.6	24.5	37.9	27.9	ug/L	EPA 8260B	02/26/200	154	114	30.2	70-130	25
Methyl-t-Butyl Ether	19312-05	<0.50	24.6	24.5	23.6	21.5	ug/L	EPA 8260B	02/26/200	96.1	87.9	8.93	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 19292

Date : 03/06/2001

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **350 Grand Avenue,**

Project Number : **010216-41**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	19.7	ug/L	EPA 8260B	02/26/200	86.6	70-130
Toluene	19.7	ug/L	EPA 8260B	02/26/200	85.2	70-130
Tert-Butanol	98.3	ug/L	EPA 8260B	02/26/200	100	70-130
Methyl-t-Butyl Ether	19.7	ug/L	EPA 8260B	02/26/200	98.1	70-130

KIFF ANALYTICAL, LLC

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

Approved By:  \_\_\_\_\_  
Joel Kiff

Lab Identification (if necessary):

Address:

City, State, Zip:

**Equiva Project Manager to be invoiced:**  
 SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT HOUSTON  
 Send invoice to Blaine Tech Services:  
 Attention: Nick Sudano  
 1680 Rogers Avenue, San Jose, CA 95112

INCIDENT NUMBER (S&E ONLY)			
SAP or CRMT NUMBER (TS/CRMT)			

DATE: 2-16-01  
 PAGE: 1 of 1

CONSULTANT COMPANY:  
**Blaine Tech Services**  
 ADDRESS:  
**680 Rogers Avenue**  
 CITY:  
**San Jose, CA 95112**  
 TELEPHONE:  
**08-573-0565** FAX:  
**408-573-7774** E-MAIL:  
**nsudano@blainetech.com**

SITE ADDRESS (Street and City):  
**350 Grand Avenue, Oakland**  
 PROJECT CONTACT (Report to):  
**Nick Sudano** CONSULTANT PROJECT NO.:  
**BTS # 010216-41**  
 SAMPLER NAME(S) (Print):  
**LEON** 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 X HIGHEST per BORING ALL  
 SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

**REQUESTED ANALYSIS**

Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable (8015m)	BTEX (8021B)	MTBE (8021B)	MTBE (8260B)	TPH - Diesel, Extractable (8015m)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	MTBE (8260B) Confirmation, See Note
S-1	2/16/01	917	W	6	X	X	X	X	X				X
S-2		946			X	X	X	X	X				X
S-3		935			X	X	X	X	X				X

**FIELD NOTES:**  
 Container/Preservative  
 or PID Readings  
 or Laboratory Notes

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <i>[Blank]</i>	Time: <i>[Blank]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <i>[Blank]</i>	Time: <i>[Blank]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Nicole Brewer</i>	Date: <i>022001</i>	Time: <i>1155</i>

## WELL GAUGING DATA

Project # 010216-41 Date 2-16-01 Client ERUVA

Site 350 GRAND AVENUE 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	
3 S-1	3					7.42	17.70	TOB	
5 S-2	3					7.10	15.10		
4 S-3	3					11.37	15.07		
2 S-4	} UNABLE TO ACCESS WELLS } CARS PARKED OVER WELLS								
1 S-5									



## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010216-41</u>	Site: <u>98995755</u>
Sampler: <u>LEON</u>	Date: <u>2-16-01</u>
Well I.D.: <u>S-1</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>17.70</u>	Depth to Water: <u>7.42</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other \_\_\_\_\_

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Other: \_\_\_\_\_

<u>3.8</u> (Gals.) X	<u>3</u>	<u>=</u>	<u>11.4</u> Gals.
1 Case Volume	Specified Volumes		Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>912</u>	<u>62.9</u>	<u>6.8</u>	<u>576</u>	<u>93</u>	<u>4</u>	
<u>913</u>	<u>63.4</u>	<u>6.4</u>	<u>539</u>	<u>71</u>	<u>8</u>	
<u>914</u>	<u>63.6</u>	<u>6.5</u>	<u>557</u>	<u>59</u>	<u>12</u>	

Did well dewater? Yes  No

Gallons actually evacuated: 12

Sampling Time: 917

Sampling Date: 2-16-01

Sample I.D.: S-1

Laboratory: Sequoia Columbia Other KEFF

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: \_\_\_\_\_ mg/L Post-purge: 6.1 mg/L

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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>98995755 010216-41</u>	Site: <u>98995755</u>
Sampler: <u>LEON</u>	Date: <u>2-16-01</u>
Well I.D.: <u>S-2</u>	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: <u>15.10</u>	Depth to Water: <u>7.10</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other \_\_\_\_\_

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: \_\_\_\_\_

<u>2.9</u> (Gals.) X	<u>3</u>	=	<u>8.7</u> Gals.
I 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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>942</u>	<u>69.1</u>	<u>6.6</u>	<u>657</u>	<u>49</u>	<u>3</u>	<u>odor</u>
<u>943</u>	<u>67.1</u>	<u>6.5</u>	<u>875</u>	<u>41</u>	<u>6</u>	
<u>944</u>	<u>67.2</u>	<u>6.5</u>	<u>876</u>	<u>45</u>	<u>9</u>	

Did well dewater? Yes  No Gallons actually evacuated: 9

Sampling Time: 944 Sampling Date: 2-16-01

Sample I.D.: S-2 # Laboratory: Sequoia Columbia Other KTFP

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:	mg/L	Post-purge:	mg/L	<u>1.6</u>
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O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	
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## EQUIVA WELL MONITORING DATA SHEET

BTS #: 010216-41	Site: 98995755
Sampler: LEON	Date: 2-16-01
Well I.D.: S-3	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: 15.07	Depth to Water: 11.37
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

Bailer

Disposable Bailer

Middleburg

Electric Submersible

Waterra

Peristaltic

Extraction Pump

Other \_\_\_\_\_

Sampling Method:

Bailer

Disposable Bailer

Extraction Port

Dedicated Tubing

Other: \_\_\_\_\_

<u>1.3</u> (Gals.) X	<u>3</u> Specified Volumes	=	<u>3.9</u> Gals.	
1 Case Volume			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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
929	61.4	6.4	447	7200	1.5	
930	62.2	6.3	445	7200	3.0	
932	62.7	6.3	440	7200	4.0	

Did well dewater? Yes No

Gallons actually evacuated: 4.0

Sampling Time: 935

Sampling Date: 2-16-01

Sample I.D.: S-3

Laboratory: Sequoia Columbia Other KJFF

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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010216-41</u>	Site: <u>98995755</u>
Sampler: <u>LEON</u>	Date: <u>2-16-01</u>
Well I.D.: <u>S-4</u>	Well Diameter: 2 3 4 6 8 _____
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other \_\_\_\_\_

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Other: \_\_\_\_\_

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						<u>CAR PARKED OVER WELL</u>
						<u>NO SAMPLE</u>

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: _____	
Sampling Time: _____	Sampling Date: <u>2-16-01</u>	
Sample I.D.: <u>S-4</u>	Laboratory: Sequoia Columbia Other <u>KJFP</u>	
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> 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: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010216-41</u>	Site: <u>98995759</u>
Sampler: <u>LEON</u>	Date: <u>2-16-01</u>
Well I.D.: <u>S-5</u>	Well Diameter: 2 3 4 6 8 <u>    </u>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Waterra  
 Peristaltic  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling Method:

Bajler  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing

Other: \_\_\_\_\_

(Gals.) X <u>3</u>	=	Gals.
I 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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						<u>CAR PARKED OVER WELL</u>
						<u>CAR IS MISSING A TIRE</u>
						<u>NO SAMPLE</u>

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: \_\_\_\_\_ Sampling Date: 2-16-01

Sample I.D.: S-5 Laboratory: Sequoia Columbia Other KEFP

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

EB I.D. (if applicable): \_\_\_\_\_ Duplicate I.D. (if applicable): \_\_\_\_\_

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

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



## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010125-X2</u>	Site: <u>98995755</u>
Sampler: <u>HOYT</u>	Date: <u>1/25/01</u>
Well I.D.: <u>S-4</u>	Well Diameter: 2 3 4 6 8 <u>(1)</u>
Total Well Depth: <u>14.87</u>	Depth to Water: <u>10.12</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible

Sampling Method:

- Waterra
- Peristaltic
- Extraction Pump
- Other: Teflon Tubing

Bailer

- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Other: \_\_\_\_\_

$0.1$  (Gals.) X  $3$  =  $0.5$  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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
0600	46.4	6.97	2033	143.3	0.2	
0603	46.8	6.67	2188	>200	0.4	
0606	46.7	6.71	2290	>200	0.6	
DTW @ Dewatering			13.92	TIME - 0802		DTW 13.98

Did well dewater?  Yes  No DURING SAMPLING Gallons actually evacuated: 0.6

Sampling Time: 0622 Sampling Date: 1/25/01

Sample I.D.: S-4 Laboratory: Sequoia Columbia Other: \_\_\_\_\_

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

EB I.D. (if applicable): @ \_\_\_\_\_ Duplicate I.D. (if applicable): \_\_\_\_\_

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

D.O. (if req'd):	Pre-purge:	mg/L	<u>Post-purge</u>	mg/L
			<u>2.0</u>	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010125-X2</u>	Site: <u>98995755</u>
Sampler: <u>HOYT</u>	Date: <u>1/25/01</u>
Well I.D.: <u>S-5</u>	Well Diameter: 2 3 4 6 8 <u>10</u>
Total Well Depth: <u>13.35</u>	Depth to Water: <u>9.77</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> <u>IIACH</u>

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible

Sampling Method:

- Bailer
- Watertra
- Peristaltic
- Extraction Pump
- Other Pin Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Other: \_\_\_\_\_

$0.1$  (Gals.) X  $3$  =  $0.4$  Gals.  
 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.01	4"	0.65
2"	0.16	6"	1.17
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
0720	57.1	6.58	1163	7200	0.1	
0723	58.8	6.01	1155	7200	0.3	
0726	58.5	6.03	1161	7200	0.5	

Did well dewater? Yes  No  Gallons actually evacuated: 0.5

Sampling Time: 0737      Sampling Date: 1/25/01

Sample I.D.: S-5      Laboratory: Sequoia Columbia 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:	mg/L	Post-purge: <u>1.7</u>	mg/L
	Pre-purge:	mV	Post-purge:	mV



WELL GAUGING DATA

Project # 010112-42 Date 1/12/01 Client Equiva

Site 350 Grand Ave. Oakland, Ca. (98995755)

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 <u>TOB</u> or TOC		
S-1	3					8.15	17.70	TOB	250/51	
S-2	3					8.82	15.70		15900/22	
S-3	3					8.25	15.07		CSO CS	
S-4	1		PARKED OVER							CS
S-5	1								8.80	13.33

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010112-42</u>	Site: <u>98995755</u>
Sampler: <u>DL</u>	Date: <u>1/12/01</u>
Well I.D.: <u>S-1</u>	Well Diameter: 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth: <u>17.70</u>	Depth to Water: <u>6.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <input type="checkbox"/> <u>Grade</u> <input checked="" type="checkbox"/>	D.O. Meter (if req'd): <u>YSI</u> <input checked="" type="checkbox"/> HACH <input type="checkbox"/>

Furge Method:

- Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible
- Waterra  
 Peristaltic  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method:

- Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing

Other: \_\_\_\_\_

3.5 (Gals.) X 3 = 0.5 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
<input checked="" type="radio"/> 3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1424</u>	<u>63.0</u>	<u>6.7</u>	<u>819</u>	<u>68</u>	<u>3.5</u>	
<u>1425</u>	<u>63.6</u>	<u>6.8</u>	<u>705</u>	<u>61</u>	<u>7</u>	
<u>1426</u>	<u>66.4</u>	<u>6.8</u>	<u>697</u>	<u>42</u>	<u>10.5</u>	

Did well dewater? Yes  NO  Gallons actually evacuated: 11

Sampling Time: 1430 Sampling Date: 1/12/01

Sample I.D.: S-1 Laboratory: Sequoia Columbia  Other

Analyzed for: TPH-G BTEX MIBE TPH-D Other: \_\_\_\_\_

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

Analyzed for: TPH-G BTEX MIBE TPH-D Other: \_\_\_\_\_

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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010112-A2</u>	Site: <u>98995755</u>
Sampler: <u>DA</u>	Date: <u>1/12/01</u>
Well I.D.: <u>S-2</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>15.10</u>	Depth to Water: <u>8.82</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>(Grade)</u>	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible (X)
- Waterra
- Peristaltic
- Extraction Pump
- Other \_\_\_\_\_

Sampling Method:

- Bailer (O)
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Other: \_\_\_\_\_

$$2.3 \text{ (Gals.)} \times 3 = 6.9 \text{ Gals.}$$
 I Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
<u>(3)</u>	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1444	63.9	6.7	527	6+	2.5	
1445	64.0	6.6	508	42	5	
1446	64.1	6.6	499	38	7.5	

Did well dewater? Yes  No  Gallons actually evacuated: 7.5

Sampling Time: 1450 Sampling Date: 1/12/01

Sample I.D.: S-2 Laboratory: (Sequoia) Columbia Other \_\_\_\_\_

Analyzed for: (TPH-G BTEX MIBE TPH-D) Other: \_\_\_\_\_

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

Analyzed for: TPH-G BTEX MIBE TPH-D Other: \_\_\_\_\_

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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010112-A2</u>	Site: <u>98995755</u>
Sampler: <u>DL</u>	Date: <u>1/12/01</u>
Well I.D.: <u>S-3</u>	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: <u>15.07</u>	Depth to Water: <u>8.25</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible
- Waterra  
 Peristaltic  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling Method:

- Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing

Other: \_\_\_\_\_

$2.5$  (Gals.) X  $3$  =  $7.5$  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
<u>3"</u>	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1356	60.0	7.0	913	92	2.5	
1357	63.2	6.9	896	57	5	
1358	64.5	6.9	889	48	7.5	

Did well dewater? Yes  No      Gallons actually evacuated: 8

Sampling Time: 1402      Sampling Date: 1/12/01

Sample I.D.: S-3      Laboratory: Sequoia Columbia Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MIBE TPH-D Other: \_\_\_\_\_

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

Analyzed for: TPH-G BTEX MIBE TPH-D Other: \_\_\_\_\_

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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010112-A2</u>	Site: <u>98995755</u>
Sampler: <u>DL</u>	Date: <u>1/12/01</u>
Well I.D.: <u>S-4</u>	Well Diameter: 2 3 4 6 8 <u>    </u>
Total Well Depth:	Depth to Water: <u>    </u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:                      Sampling Method:

Bailer Disposable Bailer Middleburg Electric Submersible	Waterra Peristaltic Extraction Pump Other: <u>    </u>
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Bailer   
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other:     

\_\_\_\_\_ (Gals.) X 3 = \_\_\_\_\_ Gals.  
 1 Case Volume              Specified Volumes              Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
<u>1"</u>	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
		Parked over				
		times checked	1350 / 1410 / 1435 / 1510			
					(1 hr on meter.)	

Did well dewater? Yes  No  Gallons actually evacuated:     

Sampling Time:      Sampling Date: 1/12/01

Sample I.D.: S- Laboratory: Sequoia Columbia Other:     

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

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

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

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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: 010112-A2	Site: 98995755
Sampler: DA	Date: 1/12/01
Well I.D.: S-5	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth: 13.33	Depth to Water: 8.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Waterra  
 Peristaltic  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method:

- Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

.1 (Gals.) X 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	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1329	60.2	6.9	947	>200	.1	
1334	60.5	7.0	940	>200	.2	
1339	60.4	7.0	942	>200	.3	DRW 13.29
						dewatered
						swing sample

Did well dewater?  Yes  No      Gallons actually evacuated: 0.3

Sampling Time: 1342      Sampling Date: 1/12/01

Sample I.D.: S-5      Laboratory: Sequoia Columbia Other: \_\_\_\_\_

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

EB I.D. (if applicable): @ \_\_\_\_\_      Duplicate I.D. (if applicable): \_\_\_\_\_

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

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L      Post-purge: UNABLE mg/L

O.R.P. (if req'd): Pre-purge: \_\_\_\_\_ mV      Post-purge: TO take bench mV