

May 16, 2003

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

Alameda County
MAY 21 2003
Environmental Health

Subject: Shell-branded Service Station
5755 Broadway
Oakland, California

Dear Ms. Drogos:

Attached for your review and comment is a copy of the *First Quarter 2003 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US



Karen Petryna
Sr. Environmental Engineer

May 16, 2003

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

Re: **First Quarter 2003 Monitoring Report**
Shell-branded Service Station
5755 Broadway
Oakland, California
Incident #98995756
Cambria Project #245-0483-002

Alameda County
MAY 21 2003
Environmental Health



Dear Ms. Drogos:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

HISTORICAL REMEDIATION SUMMARY

The site location is shown on Figures 1 and 2. Mobile groundwater extraction (GWE) using a vacuum truck was conducted periodically at the site from April to November 2000. A single dual-phase vacuum extraction (DVE) event was performed at the site on February 7, 2001, and monthly mobile DVE was conducted at the site from May to November 2001. GWE and DVE have collectively extracted approximately 20,038 gallons of groundwater from wells S-2, H-1, and T-2, and removed 0.46 pounds of methyl tertiary-butyl ether (MTBE). Subsequent to Alameda County Health Care Services Agency notification in our November 7, 2001 *Third Quarter 2001 Monitoring Report*, Cambria suspended monthly DVE from wells S-2 and H-1 due to the low influent volume of groundwater from S-2 and the low influent MTBE concentrations from H-1.

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

FIRST QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled scheduled site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map that includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2).

On January 2, 2003, Blaine sampled wells S-2 and H-1 for volatile organics and metals as required by the East Bay Municipal Utility District as part of a discharge permit application for the site. Blaine's report, presenting the laboratory reports and supporting field documents for the both the January 2, 2003 sampling and the regular quarterly event performed on January 30, 2003, is included as Attachment A.

GWE System Design and Permitting: Cambria submitted an *Interim Remedial Work Plan* dated March 14, 2003 describing installation of a GWE system. We submitted the zoning application to the City of Oakland planning department on January 31, 2003 and the building permit application on April 15, 2003.

ANTICIPATED SECOND QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample selected site wells, including the horizontal well (without purging), and tabulate the data. A groundwater monitoring report will be prepared.

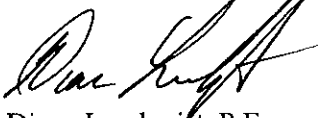
GWE System Design and Permitting: Cambria will proceed with completing the permitting process for the fixed system. Due to the localized nature of the groundwater impact, before proceeding with installation of the system, we will first install a temporary system to pump from well S-2. This system will consist of a pump and associated controls to extract groundwater from the well, which will discharge to a Baker tank located on site. Water will be periodically offhauled from the Baker tank.

Data from subsequent sampling events will be evaluated to determine whether installation of the permanent GWE system is warranted.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Diane Lundquist at (510) 420-3334 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Diane Lundquist, P.E.
Principal Engineer

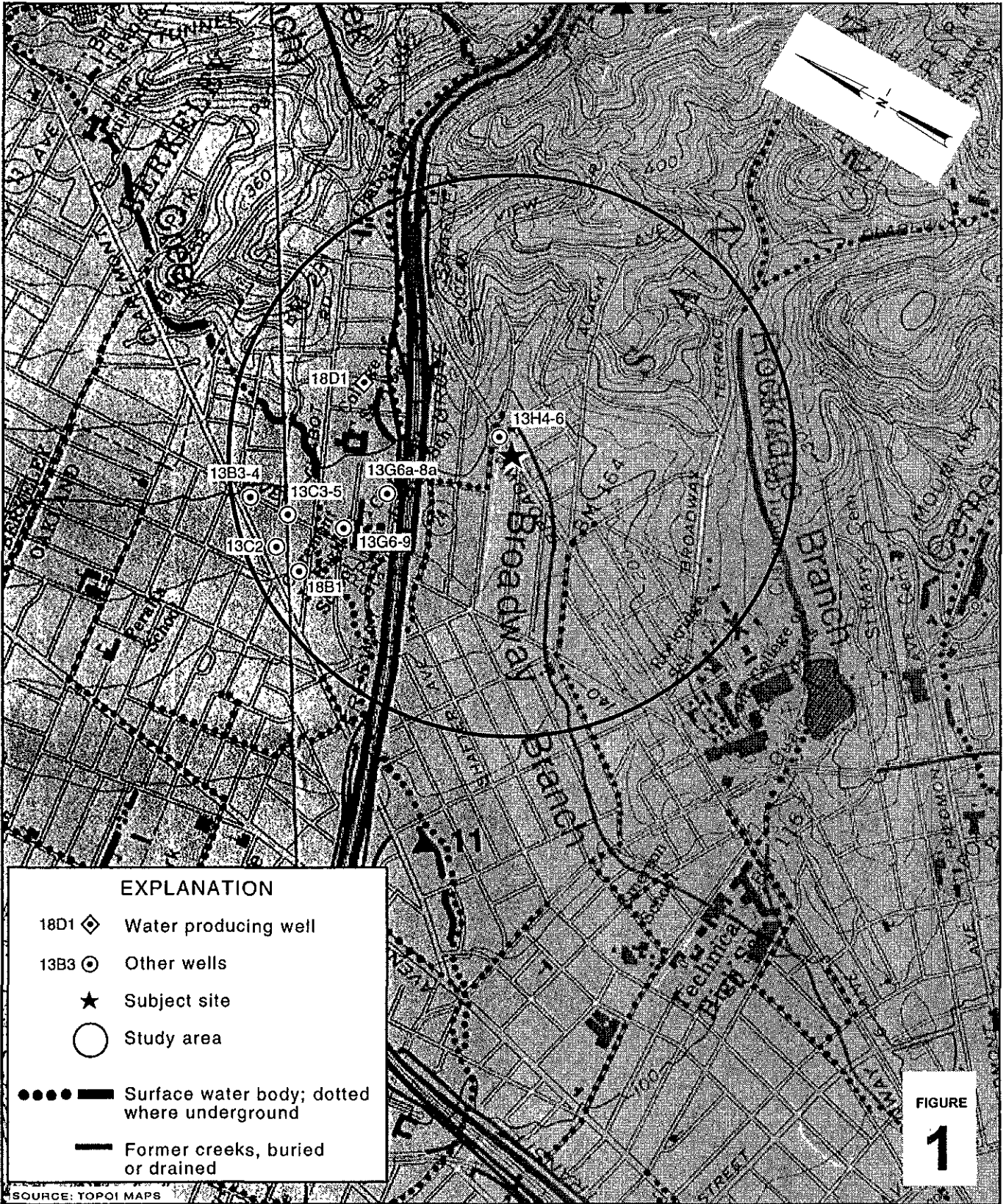


Figures: 1 - Vicinity/Well Survey Map
2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA, 91510-7869
Thrifty Oil Company, c/o Mr. Raymond Fredricksen, PO Box 2128, Santa Fe Springs, CA 90670

G:\Oakland 5755 Broadway\QM\lq03\lq03qm.doc



G:\OAKLAND\5755BROADWAY\FIGURES\VIC-WELL-SURVEY.A1

SOURCE: TOPOI MAPS

FIGURE 1

Shell-branded Service Station
 5755 Broadway
 Oakland, California
 Incident #98995756



C A M B R I A

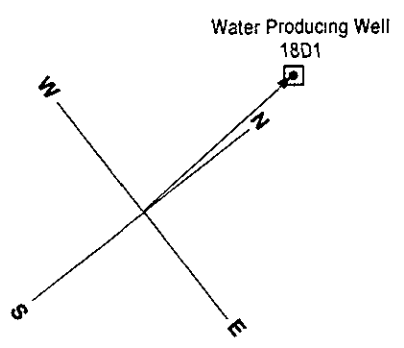
Vicinity / Well Survey Map
 (1/2-Mile Radius)

04/03/03
G:\OAKI AND 5755 BROADWAY\FIGURE\S14\M02-MP-A1

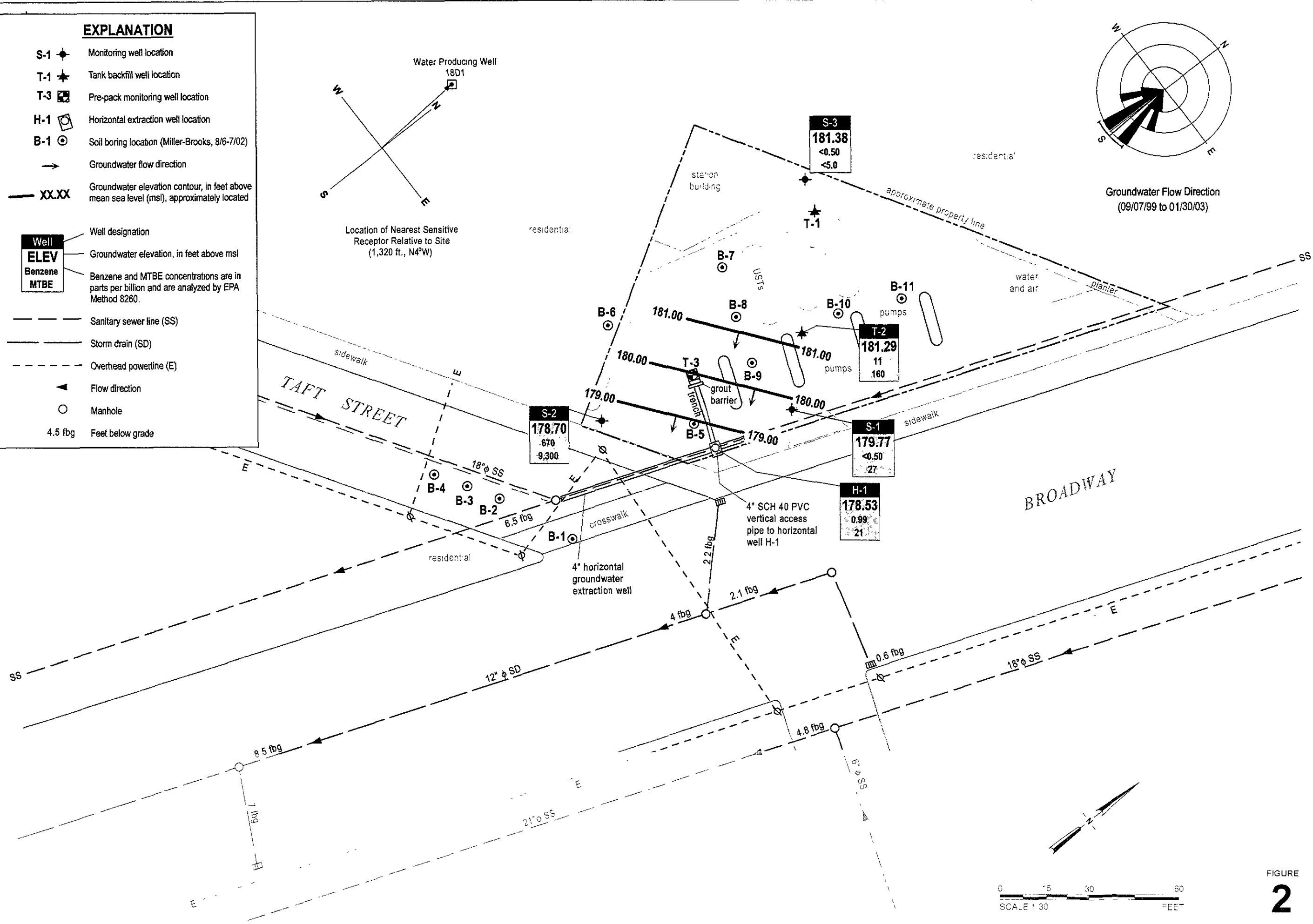
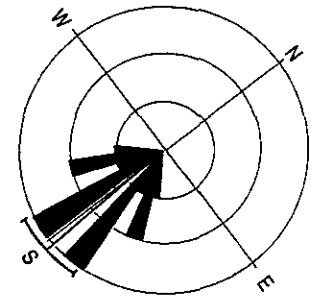
EXPLANATION

- S-1 Monitoring well location
- T-1 Tank backfill well location
- T-3 Pre-pack monitoring well location
- H-1 Horizontal extraction well location
- B-1 Soil boring location (Miller-Brooks, 8/6-7/02)
- Groundwater flow direction
- XX.XX** Groundwater elevation contour, in feet above mean sea level (msl), approximately located

- | | |
|----------------|---|
| Well | Well designation |
| ELEV | Groundwater elevation, in feet above msl |
| Benzene | Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260. |
| MTBE | |
- Sanitary sewer line (SS)
 - Storm drain (SD)
 - Overhead powerline (E)
 - Flow direction
 - Manhole
 - 4.5 fbg Feet below grade



Location of Nearest Sensitive Receptor Relative to Site (1,320 ft., N4°W)



Groundwater Elevation Contour Map
January 30, 2003



CAMBRIA

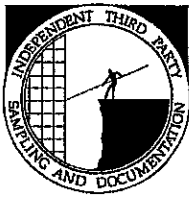
Shell-branded Service Station
5755 Broadway
Oakland, California
Incident #98995756

FIGURE
2

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

February 11, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

First Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
5755 Broadway
Oakland, CA

Monitoring performed on January 2 and 30, 2003

Groundwater Monitoring Report 030130-RH-2

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

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

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

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	100.00	3.88	96.12	NA
S-1	06/03/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	100.00	3.51	96.49	NA
S-1	08/30/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	100.00	4.24	95.76	NA
S-1	11/22/1991	<30	2.3	<0.46	0.3	<0.65	NA	NA	100.00	4.29	95.71	NA
S-1	03/13/1992	<30	<0.52	<0.3	<0.3	<0.3	NA	NA	100.00	2.87	97.13	NA
S-1	05/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.79	96.21	NA
S-1	08/19/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	4.43	95.57	NA
S-1	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	4.34	95.66	NA
S-1	02/10/1993	51	1.4	<0.5	<0.5	<0.5	NA	NA	100.00	4.20	95.80	NA
S-1 (D)	02/10/1993	<50	1.2	<0.5	<0.5	<0.5	NA	NA	100.00	4.20	95.80	NA
S-1	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.39	96.61	NA
S-1	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.69	96.31	NA
S-1	11/02/1993	70a	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	4.26	95.74	NA
S-1	12/16/1993	NA	NA	NA	NA	NA	NA	NA	100.00	2.73	97.27	NA
S-1	02/01/1994	60a	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.38	96.62	NA
S-1	05/04/1994	<50	1.1	<0.5	<0.5	<0.5	NA	NA	100.00	3.00	97.00	NA
S-1	08/18/1994	<50	0.6	<0.5	<0.5	<0.5	NA	NA	100.00	3.70	96.30	NA
S-1 (D)	08/18/1994	60a	0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.70	96.30	NA
S-1	11/09/1994	<50	4	<0.5	<0.5	<0.5	NA	NA	100.00	2.52	97.48	NA
S-1	02/22/1995	50	0.8	0.7	<0.5	1.3	NA	NA	100.00	4.08	95.92	NA
S-1	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	2.58	97.42	NA
S-1	08/30/1995	<50	1.7	<0.5	<0.5	<0.5	NA	NA	100.00	3.48	96.52	NA
S-1	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.99	96.01	NA
S-1	02/02/1996	<50	11	<0.5	0.9	<0.5	NA	NA	100.00	2.00	98.00	NA
S-1	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.38	99.62	NA
S-1	08/22/1996	<50	1.5	<0.5	<0.5	<0.5	130	NA	100.00	3.43	96.57	NA
S-1	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	57	NA	100.00	3.70	96.30	4.33

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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S-1	02/20/1997	<50	0.64	<0.50	<0.50	1.6	6.5	NA	100.00	3.60	96.40	2
S-1	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	46	NA	100.00	3.47	96.53	7
S-1 (D)	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	47	NA	100.00	3.47	96.53	7
S-1	08/21/1997	<50	<0.50	<0.50	<0.50	0.84	26	NA	100.00	3.01	96.99	3.1
S-1	11/03/1997	<50	<0.50	1.1	<0.50	1.3	190	NA	100.00	3.66	96.34	2
S-1	01/20/1998	110	7.9	2.8	4.4	13	53	NA	100.00	1.84	98.16	4.6
S-1 (D)	01/20/1998	130	9.2	6.9	5.2	15	93	NA	100.00	1.84	98.16	4.6
S-1	02/16/1999	<50	<0.50	<0.50	<0.50	<0.50	8.6	NA	100.00	2.43	97.57	2.2
S-1	09/07/1999	NA	NA	NA	NA	NA	NA	NA	100.00	2.84	97.16	NA
S-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	202	NA	100.00	3.10	96.90	2.1
S-1	04/26/2000	NA	NA	NA	NA	NA	NA	NA	100.00	2.91	97.09	NA
S-1	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	811	NA	100.00	3.21	96.79	1.8
S-1	11/15/2000	NA	NA	NA	NA	NA	NA	NA	100.00	3.18	96.82	NA
S-1	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	209	NA	100.00	1.34	98.66	2.2
S-1	06/07/2001	NA	NA	NA	NA	NA	NA	NA	100.00	1.27	98.73	NA
S-1	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	100.00	3.16	96.84	4.0
S-1	12/05/2001	NA	NA	NA	NA	NA	NA	2.6	100.00	1.90	98.10	NA
S-1	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	100.00	2.67	97.33	NA
S-1	06/04/2002	NA	NA	NA	NA	NA	NA	NA	100.00	1.87	98.13	NA
S-1	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	100.00	2.01	97.99	NA
S-1	11/07/2002	NA	NA	NA	NA	NA	NA	NA	181.89	3.01	178.88	NA
S-1	11/14/2002	NA	NA	NA	NA	NA	NA	NA	181.89	3.40	178.49	NA
S-1	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	27	181.89	2.12	179.77	NA

S-2	01/25/1991	450	140	1.8	6.2	15	NA	NA	98.92	4.52	94.40	NA
S-2	06/03/1991	490	150	2.7	8.2	7	NA	NA	98.92	4.02	94.90	NA
S-2	08/30/1991	70	0.37	<0.3	<0.3	<0.3	NA	NA	98.92	4.70	94.22	NA
S-2	11/22/1991	1,600	110	9.3	29	150	NA	NA	98.92	4.72	94.20	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	03/13/1992	1,300	210	5.7	34	79	NA	NA	98.92	3.47	95.45	NA
S-2	05/28/1992	100	28	<0.5	<0.5	<0.5	NA	NA	98.92	4.45	94.45	NA
S-2	08/19/1992	470	42	<0.5	8.3	4	NA	NA	98.92	4.84	94.08	NA
S-2	11/18/1992	490	43	39	17	29	NA	NA	98.92	4.73	94.19	NA
S-2	02/10/1993	19,000	710	760	80	370	NA	NA	98.92	4.83	94.09	NA
S-2	06/11/1993	33,000	3,100	1,600	370	1,100	NA	NA	98.92	3.74	95.18	NA
S-2	08/03/1993	18,000	1,400	130	81	130	NA	NA	98.92	4.23	94.69	NA
S-2 (D)	08/03/1993	19,000	1,400	140	86	150	NA	NA	98.92	4.23	94.69	NA
S-2	11/02/1993	12,000a	470	47	31	92	NA	NA	98.92	4.72	94.20	NA
S-2 (D)	11/02/1993	13,000a	530	47	35	96	NA	NA	98.92	4.72	94.20	NA
S-2	12/16/1993	NA	NA	NA	NA	NA	NA	NA	98.92	3.00	95.92	NA
S-2	02/01/1994	31,000a	430	46	50	130	NA	NA	98.92	3.48	95.44	NA
S-2 (D)	02/01/1994	31,000a	300	33	30	100	NA	NA	98.92	3.48	95.44	NA
S-2	05/04/1994	3,900	1,200	31	53	71	NA	NA	98.92	3.26	95.66	NA
S-2 (D)	05/04/1994	4,500	1,200	37	57	110	NA	NA	98.92	3.26	95.66	NA
S-2	08/18/1994	24,000	600	8.3	15	27	NA	NA	98.92	3.98	94.94	NA
S-2	11/09/1994	1,400a	240	9.3	13	20	NA	NA	98.92	3.10	95.82	NA
S-2 (D)	11/09/1994	1,800	260	8.5	13	21	NA	NA	98.92	3.10	95.82	NA
S-2	02/22/1995	29,000	550	18	12	63	NA	NA	98.92	4.02	94.90	NA
S-2 (D)	02/22/1995	28,000	530	17	10	60	NA	NA	98.92	4.02	94.90	NA
S-2	05/02/1995	4,400	1,000	25	38	77	NA	NA	98.92	2.86	96.06	NA
S-2 (D)	05/02/1995	4,400	1,000	26	41	83	NA	NA	98.92	2.86	96.06	NA
S-2	08/30/1995	800	350	20	6.7	16	NA	NA	98.92	4.06	94.86	NA
S-2 (D)	08/30/1995	960	220	22	12	48	NA	NA	98.92	4.06	94.86	NA
S-2	11/28/1995	2,000	230	220	50	230	NA	NA	98.92	4.48	94.44	NA
S-2 (D)	11/28/1995	2,100	240	230	51	230	NA	NA	98.92	4.48	94.44	NA
S-2	02/02/1996	18,000	540	18	12	22	NA	NA	98.92	1.99	96.93	NA
S-2 (D)	02/02/1996	11,000	600	18	13	28	NA	NA	98.92	1.99	96.93	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	03/09/1996	3,800	1,500	27	30	58	NA	NA	98.92	3.27	95.65	NA
S-2 (D)	03/09/1996	3,500	1,300	24	21	53	NA	NA	98.92	3.27	95.65	NA
S-2	08/22/1996	<20,000	490	<200	<200	<200	43,000	NA	98.92	3.85	95.07	NA
S-2 (D)	08/22/1996	<20,000	570	<200	<200	<200	59,000	51,000	98.92	3.85	95.07	NA
S-2	11/07/1996	<5,000	290	<50	<50	<50	32,000	NA	98.92	4.00	94.92	3.51
S-2 (D)	11/07/1996	<5,000	290	<50	<50	<50	32,000	NA	98.92	4.00	94.92	3.51
S-2	02/20/1997	<10,000	520	<100	<100	<100	28,000	NA	98.92	3.20	95.72	1
S-2 (D)	02/20/1997	<10,000	520	<100	<100	<100	35,000	NA	98.92	3.20	95.72	1
S-2	05/30/1997	150	15	11	3.5	15	11	NA	98.92	3.87	95.05	6
S-2	08/21/1997	1,600	220	<10	20	<10	18,000	NA	98.92	3.29	95.63	3.3
S-2 (D)	08/21/1997	1,500	180	<10	16	<10	21,000	NA	98.92	3.29	95.63	3.3
S-2	11/03/1997	1,000	94	<10	<10	<10	<50	NA	98.92	4.02	94.90	1.8
S-2	01/20/1998	590	110	8.3	18	23	7,800	NA	98.92	1.54	97.38	3.2
S-2	07/23/1998	2,600	840	<10	44	22	15,000	NA	98.92	2.89	96.03	NA
S-2	02/16/1999	680	140	6.1	10	18	19,000	NA	98.92	1.86	97.06	2.0
S-2	09/07/1999	<2,000	248	<20.0	<20.0	<20.0	22,800	NA	98.92	3.66	95.26	1.8
S-2	02/02/2000	103	0.825	<0.500	<0.500	<0.500	11,700	10,500	98.92	4.02	94.90	2.0
S-2	04/26/2000	4,040	799	<20.0	40.9	255	19,000	17,100b	98.92	2.63	96.29	2.3
S-2	07/25/2000	1,120	195	5.94	5.62	11.3	26,600	21,100	98.92	3.42	95.50	0.6
S-2b	11/15/2000	613	35.6	<5.00	<5.00	7.36	18,100	17,800	98.92	3.31	95.61	1.8
S-2	02/12/2001	9,010	1,430	<20.0	219	848	28,300	17,000	98.92	1.47	97.45	2.0
S-2	06/07/2001	31,000	1,000	<25	630	3,200	NA	17,000	98.92	3.43	95.49	10.4
S-2	08/31/2001	50,000	950	<20	1,500	6,000	NA	17,000	98.92	4.72	94.20	0.9
S-2	12/05/2001	49,000	590	7.2	1,400	4,900	NA	11,000	98.92	1.53	97.39	NA
S-2	01/31/2002	37,000	860	<25	1,100	4,000	NA	14,000	98.92	2.13	96.79	NA
S-2	06/04/2002	150,000	800	<20	1,200	4,000	NA	9,200	98.92	2.24	96.68	NA
S-2	07/25/2002	37,000	350	<20	660	2,400	NA	10,000	98.92	2.03	96.89	NA
S-2	11/14/2002	25,000	510	<25	590	2,000	NA	10,000	180.79	3.17	177.62	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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S-2	01/02/2003	NA	710	<25	560	2,074	NA	NA	180.79	2.15	178.64	NA
S-2	01/30/2003	21,000	670	<20	360	1,200	NA	9,300	180.79	2.09	178.70	NA

S-3	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	101.67	3.84	97.83	NA
S-3	06/03/1991	<30	<0.3	0.3	0.3	0.3	NA	NA	101.67	3.25	98.42	NA
S-3	08/03/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	101.67	4.73	96.94	NA
S-3	11/22/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	101.67	4.81	96.86	NA
S-3	03/13/1992	<30	<0.3	0.3	0.3	0.3	NA	NA	101.67	2.29	99.38	NA
S-3	05/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.62	98.05	NA
S-3	08/19/1992	<50	<0.5	<0.5	<0.5	0.5	NA	NA	101.67	4.66	97.01	NA
S-3	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	4.51	97.16	NA
S-3	02/10/1993	30	1.9	3.2	2.4	5.6	NA	NA	101.67	4.36	97.31	NA
S-3	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.91	98.76	NA
S-3 (D)	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.91	98.76	NA
S-3	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.70	97.97	NA
S-3	11/02/1993	Well inaccessible		NA	NA	NA	NA	NA	101.67	NA	NA	NA
S-3	12/16/1993	NA	NA	NA	NA	NA	NA	NA	101.67	2.12	99.55	NA
S-3	02/01/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.90	98.77	NA
S-3	05/04/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.54	99.13	NA
S-3	08/18/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.51	98.16	NA
S-3	11/09/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.44	99.23	NA
S-3	02/22/1995	80	<0.5	0.5	<0.5	0.5	NA	NA	101.67	4.12	97.55	NA
S-3	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.83	98.84	NA
S-3	08/30/1995	<50	0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.16	98.51	NA
S-3	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.87	97.80	NA
S-3	02/02/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.24	99.43	NA
S-3	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.05	98.62	NA
S-3	08/22/1996	<50	0.8	<0.5	<0.5	<0.5	<2.5	NA	101.67	2.85	98.82	4.6

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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S-3	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	101.67	3.35	98.32	4.6
S-3	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	3.00	98.67	1
S-3	05/30/1997	140	14	10	3.3	14	8.6	NA	101.67	3.00	98.67	8
S-3	08/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	2.94	98.73	3.3
S-3	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	3.36	98.31	2.4
S-3 (D)	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	3.36	98.31	2.4
S-3	01/20/1998	Well inaccessible		NA	NA	NA	NA	NA	101.67	NA	NA	NA
S-3	07/23/1998	NA	NA	NA	NA	NA	NA	NA	101.67	2.69	98.98	NA
S-3	02/16/1999	<50	<0.50	0.92	0.59	3.9	3.7	NA	101.67	2.20	99.47	2.8
S-3	09/07/1999	NA	NA	NA	NA	NA	NA	NA	101.67	2.81	98.86	NA
S-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	101.67	3.97	97.70	2.7
S-3	04/26/2000	NA	NA	NA	NA	NA	NA	NA	101.67	2.96	98.71	NA
S-3	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	101.67	3.00	98.67	0.8
S-3	11/15/2000	NA	NA	NA	NA	NA	NA	NA	101.67	2.86	98.81	NA
S-3	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	101.67	2.47	99.20	2.3
S-3	06/07/2001	NA	NA	NA	NA	NA	NA	NA	101.67	2.78	98.89	NA
S-3	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	101.67	3.94	97.73	0.5
S-3	12/05/2001	NA	NA	NA	NA	NA	NA	NA	101.67	2.05	99.62	NA
S-3	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	101.67	2.29	99.38	NA
S-3	06/04/2002	NA	NA	NA	NA	NA	NA	NA	101.67	2.56	99.11	NA
S-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	101.67	2.70	98.97	NA
S-3	11/14/2002	NA	NA	NA	NA	NA	NA	NA	183.54	3.43	180.11	NA
S-3	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	183.54	2.16	181.38	NA

H-1	12/05/2001	150	<0.50	8.3	1.6	16	NA	52	NA	1.43	NA	NA
H-1	01/31/2002	3,200	12	<0.50	5.7	3.7	NA	650	NA	2.34	NA	NA
H-1	06/04/2002	280,000	<10	150	62	9,500	NA	<100	NA	2.56	NA	NA
H-1	07/25/2002	8,200	2.2	46	5.3	99	NA	<10	NA	2.83	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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H-1	11/14/2002	1,700	2.1	2.6	1.5	14	NA	380	180.63	3.74	176.89	NA
H-1	01/02/2003	NA	1.1	<0.50	<0.50	3.6	NA	NA	180.63	1.45	179.18	NA
H-1	01/30/2003	630	0.99	2.0	1.6	12	NA	21	180.63	2.10	178.53	NA

T-1	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.65	NA	NA
T-1	08/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.69	NA	NA
T-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	3.09	NA	NA
T-1	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.61	NA	NA
T-1	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	2.32	NA	NA
T-1	02/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	1.95	NA	NA
T-1	09/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	2.48	NA	NA
T-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	2.66	NA	2.5
T-1	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.56	NA	NA
T-1	07/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.60	NA	NA
T-1	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.47	NA	NA
T-1	02/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	1.20	NA	NA
T-1	06/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	2.36	NA	NA
T-1	08/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.45	NA	NA
T-1	01/09/2002 c	NA	NA	NA	NA	NA	NA	NA	183.08	NA	NA	NA

T-2	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	1.81	NA	NA
T-2	08/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	1.89	NA	NA
T-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.25	NA	NA
T-2	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.55	NA	NA
T-2	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	1.21	NA	NA
T-2	02/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	1.08	NA	NA
T-2	09/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	0.72	NA	NA
T-2	02/02/2000	1,540	53.4	20.8	11.4	21.8	1,330	NA	NA	0.98	NA	3.0

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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T-2	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	1.02	NA	NA
T-2	07/25/2000	815	17.6	10.8	1.63	3.47	133	NA	NA	1.80	NA	0.8
T-2	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	1.68	NA	NA
T-2	02/12/2001	310	7.48	7.76	0.693	2.28	301	NA	NA	1.45	NA	1.6
T-2	06/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	1.57	NA	NA
T-2	08/31/2001	720	30	0.67	<0.50	2.3	NA	540	NA	2.69	NA	0.8
T-2	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	0.58	NA	NA
T-2	01/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	1.32	NA	NA
T-2	02/04/2002	1,000	41	30	4.6	20	NA	1,200	NA	1.46	NA	NA
T-2	06/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	1.50	NA	NA
T-2	07/25/2002	660	11	0.59	<0.50	2.6	NA	97	NA	1.53	NA	NA
T-2	11/14/2002	NA	NA	NA	NA	NA	NA	NA	182.30	2.39	179.91	NA
T-2	01/30/2003	560	11	<0.50	<0.50	0.53	NA	160	182.30	1.01	181.29	NA

T-3	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.31	NA	NA
T-3	08/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	1.57	NA	NA
T-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	3.50	NA	NA
T-3	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.76	NA	NA
T-3	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.82	NA	NA
T-3	02/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	0.55	NA	NA
T-3	09/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	2.89	NA	NA
T-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	3.02	NA	2.9
T-3	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.81	NA	NA
T-3	07/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	3.00	NA	NA
T-3	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	1.70	NA	NA
T-3	02/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	2.11	NA	NA
T-3	06/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	1.68	NA	NA
T-3	08/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.14	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
T-3	01/09/2002 c	NA	NA	NA	NA	NA	NA	NA	180.95	NA	NA	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 7, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 7, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

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

NA = Not applicable

Notes:

a = Chromatogram pattern indicated an unidentified hydrocarbon.

b = This sample analyzed outside of EPA recommended hold time.

c = Survey date only.

Site surveyed January 9, 2002, by Virgil Chavez Land Surveying of Vallejo, California.



Report Number : 31216

Date : 2/6/03

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 5 Water Samples
Project Name : 5755 Broadway, Oakland
Project Number : 030130-RH2
P.O. Number : 98995756

Dear Mr. Gearhart,

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, looped "J" and "K".

Joel Kiff



Report Number : 31216

Date : 2/6/03

Project Name : 5755 Broadway, Oakland

Project Number : 030130-RH2

Sample : S-1

Matrix : Water

Lab Number : 31216-01

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Methyl-t-butyl ether (MTBE)	27	5.0	ug/L	EPA 8260B	2/2/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/2/03
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	99.4		% Recovery	EPA 8260B	2/2/03

Sample : S-2

Matrix : Water

Lab Number : 31216-02

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	670	20	ug/L	EPA 8260B	2/4/03
Toluene	< 20	20	ug/L	EPA 8260B	2/4/03
Ethylbenzene	360	20	ug/L	EPA 8260B	2/4/03
Total Xylenes	1200	20	ug/L	EPA 8260B	2/4/03
Methyl-t-butyl ether (MTBE)	9300	200	ug/L	EPA 8260B	2/4/03
TPH as Gasoline	21000	2000	ug/L	EPA 8260B	2/4/03
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	2/4/03
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	2/4/03

Approved By:  Joel Kiff



Report Number : 31216

Date : 2/6/03

Project Name : 5755 Broadway, Oakland

Project Number : 030130-RH2

Sample : S-3

Matrix : Water

Lab Number : 31216-03

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/2/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/2/03
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	2/2/03

Sample : H-1

Matrix : Water

Lab Number : 31216-04

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.99	0.50	ug/L	EPA 8260B	2/2/03
Toluene	2.0	0.50	ug/L	EPA 8260B	2/2/03
Ethylbenzene	1.6	0.50	ug/L	EPA 8260B	2/2/03
Total Xylenes	12	0.50	ug/L	EPA 8260B	2/2/03
Methyl-t-butyl ether (MTBE)	21	5.0	ug/L	EPA 8260B	2/2/03
TPH as Gasoline	630	50	ug/L	EPA 8260B	2/2/03
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	2/2/03

Approved By:  Joel Kiff



Report Number : 31216

Date : 2/6/03

Project Name : 5755 Broadway, Oakland

Project Number : 030130-RH2

Sample : T-2

Matrix : Water

Lab Number : 31216-05

Sample Date :1/30/03


Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	11	0.50	ug/L	EPA 8260B	2/2/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Total Xylenes	0.53	0.50	ug/L	EPA 8260B	2/2/03
Methyl-t-butyl ether (MTBE)	160	5.0	ug/L	EPA 8260B	2/2/03
TPH as Gasoline	560	50	ug/L	EPA 8260B	2/2/03
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	2/2/03

Approved By:  Joel Kiff

QC Report : Method Blank DataProject Name : **5755 Broadway, Oakland**Project Number : **030130-RH2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/2/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/2/03
Toluene - d8 (Surr)	96.4		%	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	2/2/03
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/2/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/2/03
Toluene - d8 (Surr)	97.0		%	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	98.3		%	EPA 8260B	2/2/03
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/3/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/3/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/3/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/3/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/3/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/3/03
Toluene - d8 (Surr)	102		%	EPA 8260B	2/3/03
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	2/3/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis. CA 95616 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 5755 Broadway, Oakland

Project Number : 030130-RH2

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 Recov. Limit	Relative Percent Diff. Limit
Benzene	31216-04	0.99	40.0	40.0	43.4	41.7	ug/L	EPA 8260B	2/2/03	106	102	4.04	70-130	25
Toluene	31216-04	2.0	40.0	40.0	40.7	39.5	ug/L	EPA 8260B	2/2/03	96.9	93.8	3.25	70-130	25
Tert-Butanol	31216-04	<5.0	200	200	197	199	ug/L	EPA 8260B	2/2/03	98.6	99.4	0.808	70-130	25
Methyl-t-Butyl Ether	31216-04	21	40.0	40.0	61.6	63.1	ug/L	EPA 8260B	2/2/03	101	104	3.58	70-130	25
Benzene	31216-05	11	40.0	40.0	48.4	46.4	ug/L	EPA 8260B	2/2/03	93.5	88.5	5.49	70-130	25
Toluene	31216-05	<0.50	40.0	40.0	37.3	36.4	ug/L	EPA 8260B	2/2/03	93.3	91.1	2.44	70-130	25
Tert-Butanol	31216-05	13	200	200	204	204	ug/L	EPA 8260B	2/2/03	95.4	95.5	0.0524	70-130	25
Methyl-t-Butyl Ether	31216-05	160	40.0	40.0	198	196	ug/L	EPA 8260B	2/2/03	105	98.7	6.42	70-130	25
Benzene	31267-01	<0.50	40.0	40.0	40.6	39.4	ug/L	EPA 8260B	2/3/03	102	98.4	3.10	70-130	25
Toluene	31267-01	<0.50	40.0	40.0	39.6	38.2	ug/L	EPA 8260B	2/3/03	99.1	95.4	3.75	70-130	25
Tert-Butanol	31267-01	<5.0	200	200	197	195	ug/L	EPA 8260B	2/3/03	98.7	97.7	1.08	70-130	25
Methyl-t-Butyl Ether	31267-01	1.3	40.0	40.0	39.4	39.1	ug/L	EPA 8260B	2/3/03	95.2	94.7	0.553	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : 5755 Broadway, Oakland

Project Number : 030130-RH2

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	2/2/03	98.4	70-130
Toluene	40.0	ug/L	EPA 8260B	2/2/03	92.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/2/03	99.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/2/03	88.4	70-130
Benzene	40.0	ug/L	EPA 8260B	2/2/03	97.2	70-130
Toluene	40.0	ug/L	EPA 8260B	2/2/03	89.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/2/03	98.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/2/03	107	70-130
Benzene	40.0	ug/L	EPA 8260B	2/3/03	103	70-130
Toluene	40.0	ug/L	EPA 8260B	2/3/03	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/3/03	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/3/03	97.8	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff



Report Number : 30728

Date : 1/8/2003

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 2 Water Samples
Project Name : 5755 Broadway, Oakland
Project Number : 030102-SS3
P.O. Number : 98995756

Dear Mr. Gearhart,

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, looped "J" and "K".

Joel Kiff



Report Number : 30728

Date : 1/8/2003

Subject : 2 Water Samples
Project Name : 5755 Broadway, Oakland
Project Number : 030102-SS3
P.O. Number : 98995756

Case Narrative

The Method Reporting Limit for n-Butylbenzene has been increased due to the presence of an interfering compound for samples S-2 and H-1. The Method Reporting Limits for sample S-2 have been increased due to the high level of Methyl-t-butyl ether in the sample.

Approved By:  _____
Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Sample : S-2

Project Name : 5755 Broadway, Oakland

Project Number : 030102-SS3

Date Analyzed : 1/5/2003

Lab Number : 30728-01

Matrix : Water

Sample Date : 1/2/2003

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL ¹	Units
Dichlorodifluoromethane	< 25	25	ug/L
Chloromethane	< 25	25	ug/L
Vinyl Chloride	< 25	25	ug/L
Bromomethane	< 1000	1000	ug/L
Chloroethane	< 25	25	ug/L
Trichlorofluoromethane	< 25	25	ug/L
1,1-Dichloroethene	< 25	25	ug/L
Methylene Chloride	< 250	250	ug/L
trans-1,2-Dichloroethene	< 25	25	ug/L
1,1-Dichloroethane	< 25	25	ug/L
2,2-Dichloropropane	< 25	25	ug/L
cis-1,2-Dichloroethene	< 25	25	ug/L
Chloroform	< 25	25	ug/L
Bromochloromethane	< 25	25	ug/L
1,1,1-Trichloroethane	< 25	25	ug/L
1,1-Dichloropropene	< 25	25	ug/L
1,2-Dichloroethane	< 25	25	ug/L
Carbon Tetrachloride	< 25	25	ug/L
Benzene	710	25	ug/L
Trichloroethene	< 25	25	ug/L
1,2-Dichloropropane	< 25	25	ug/L
Bromodichloromethane	< 25	25	ug/L
Dibromomethane	< 25	25	ug/L
cis-1,3-Dichloropropene	< 25	25	ug/L
Toluene	< 25	25	ug/L
trans-1,3-Dichloropropene	< 25	25	ug/L
1,1,2-Trichloroethane	< 25	25	ug/L
1,3-Dichloropropane	< 25	25	ug/L
Tetrachloroethene	< 25	25	ug/L
Dibromochloromethane	< 25	25	ug/L
1,2-Dibromoethane	< 25	25	ug/L
Chlorobenzene	< 25	25	ug/L
1,1,1,2-Tetrachloroethane	< 25	25	ug/L
Ethylbenzene	560	25	ug/L
P,M-Xylene	2000	50	ug/L
O-Xylene	74	25	ug/L
Styrene	< 25	25	ug/L
Isopropyl benzene	78	25	ug/L

Parameter	Measured Value	MRL ¹	Units
Bromoform	< 25	25	ug/L
1,1,2,2-Tetrachloroethane	< 25	25	ug/L
1,2,3-Trichloropropane	< 25	25	ug/L
n-Propylbenzene	270	25	ug/L
Bromobenzene	< 25	25	ug/L
1,3,5-Trimethylbenzene	940	25	ug/L
2+4-Chlorotoluene	< 50	50	ug/L
tert-Butylbenzene	< 25	25	ug/L
1,2,4-Trimethylbenzene	2500	25	ug/L
sec-Butylbenzene	39	25	ug/L
p-Isopropyltoluene	< 25	25	ug/L
1,3-Dichlorobenzene	< 25	25	ug/L
1,4-Dichlorobenzene	< 25	25	ug/L
n-Butylbenzene	< 1000	1000	ug/L
1,2-Dichlorobenzene	< 25	25	ug/L
1,2-Dibromo-3-chloropropane	< 25	25	ug/L
1,2,4-Trichlorobenzene	< 25	25	ug/L
Hexachlorobutadiene	< 25	25	ug/L
Naphthalene	500	25	ug/L
1,2,3-Trichlorobenzene	< 25	25	ug/L
Dibromofluoromethane (Surr)	106		% Recovery
1,2-Dichloroethane-d4 (Surr)	105		% Recovery
Toluene-d8 (Surr)	91.7		% Recovery
4-Bromofluorobenzene (Surr)	118		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By:  Joel Kiff



Report Number : 30728

Date : 1/8/2003

Sample : H-1

Project Name : 5755 Broadway, Oakland

Project Number : 030102-SS3

Date Analyzed : 1/5/2003

Lab Number : 30728-02

Matrix : Water

Sample Date : 1/2/2003

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL ¹	Units
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 2.0	2.0	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	1.1	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 2.0	2.0	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	1.9	1.0	ug/L
O-Xylene	1.7	0.50	ug/L
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL ¹	Units
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	0.87	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	1.8	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 5.0	5.0	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
Dibromofluoromethane (Surr)	106		% Recovery
1,2-Dichloroethane-d4 (Surr)	104		% Recovery
Toluene-d8 (Surr)	92.9		% Recovery
4-Bromofluorobenzene (Surr)	120		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By:  Joel Kiff

QC Report : Method Blank Data

Project Name : 5755 Broadway, Oakland

Project Number : 030102-SS3

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Bromomethane	< 20	20	ug/L	EPA 8260B	1/5/2003
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	1/5/2003
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	1/5/2003
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	1/5/2003
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	1/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Styrene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	1/5/2003
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/5/2003
Dibromofluoromethane (Surr)	103		%	EPA 8260B	1/5/2003
1,2-Dichloroethane-d4 (Surr)	112		%	EPA 8260B	1/5/2003
Toluene - d8 (Surr)	91.3		%	EPA 8260B	1/5/2003
4-Bromofluorobenzene (Surr)	116		%	EPA 8260B	1/5/2003

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **5755 Broadway, Oakland**

Project Number : **030102-SS3**

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
1,1-Dichloroethane	30691-01	<0.50	39.9	39.8	43.6	40.9	ug/L	EPA 8260B	1/5/03	109	103	6.09	70-130	25
Benzene	30691-01	1.1	39.9	39.8	43.9	43.3	ug/L	EPA 8260B	1/5/03	107	106	1.27	70-130	25
1,2-Dichloroethane	30691-01	<0.50	39.9	39.8	35.2	34.4	ug/L	EPA 8260B	1/5/03	88.3	86.3	2.32	70-130	25
Toluene	30691-01	<0.50	39.9	39.8	37.4	37.2	ug/L	EPA 8260B	1/5/03	93.8	93.5	0.320	70-130	25
Chlorobenzene	30691-01	<0.50	39.9	39.8	46.6	45.6	ug/L	EPA 8260B	1/5/03	117	114	1.92	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joel Kiff


QC Report : Laboratory Control Sample (LCS)

Project Name : 5755 Broadway, Oakland

Project Number : 030102-SS3

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1-Dichloroethane	20.0	ug/L	EPA 8260B	1/5/03	105	70-130
Benzene	20.0	ug/L	EPA 8260B	1/5/03	102	70-130
1,2-Dichloroethane	20.0	ug/L	EPA 8260B	1/5/03	87.7	70-130
Toluene	20.0	ug/L	EPA 8260B	1/5/03	90.2	70-130
Chlorobenzene	20.0	ug/L	EPA 8260B	1/5/03	113	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Oil Products US

Certificate of Analysis Number:
03010140

Report To: KIFF Analytical Joel Kiff 2795 2nd Street Suite 300 Davis CA 95616- ph (530) 297-4800 fax: (530) 297-4808	Project Name: INC#98995756 Site: 5755 Broadway Site Address: 5755 Broadway Oakland CA PO Number: State: California State Cert. No.: 01142CA Date Reported: 1/17/2003
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This Report Contains A Total Of 12 Pages

Excluding This Page

1/17/2003

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Shell Oil Products US

Certificate of Analysis Number:
03010140

Report To: KIFF Analytical Joel Kiff 2795 2nd Street Suite 300 Davis CA 95616- ph (530) 297-4800 fax: (530) 297-4808	Project Name: INC#98995756 Site: 5755 Broadway Site Address: 5755 Broadway Oakland CA PO Number: State: California State Cert. No.: 01142CA Date Reported: 1/17/2003
--	--

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Bernadette Fini
Customer Service Manager

1/17/2003

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Shell Oil Products US

Certificate of Analysis Number:

03010140

Report To: KIFF Analytical
 Joel Kiff
 2795 2nd Street
 Suite 300
 Davis
 CA
 95616-
 ph (530) 297-4800 fax: (530) 297-4803

Project Name: INC#98995756
Site: 5755 Broadway
Site Address: 5755 Broadway
 Oakland CA
PO Number:
State: California
State Cert. No.: 01142CA
Date Reported: 1/17/2003

Fax To: KIFF Analytical
 Joel Kiff fax (530) 297-4808

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
------------------	---------------	--------	----------------	---------------	--------	------

S-2	03010140-01	Water	1/2/2003 12:00:00 PM	1/7/2003 9:30:00 AM		<input type="checkbox"/>
H-1	03010140-02	Water	1/2/2003 11:40:00 AM	1/7/2003 9:30:00 AM		<input type="checkbox"/>

Bernadette Fini
 Customer Service Manager

1/17/2003

Date

Joel Grice
 Laboratory Director
 Ted Yen
 Quality Assurance Officer



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID: S-2

Collected: 01/02/2003 12:00 SPL Sample ID: 03010140-01

Site: 5755 Broadway

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL			MCL	E245.1	Units: mg/L		
Mercury	ND	0.0002	1		01/10/03 9:46	R_T	1457949

Prep Method	Prep Date	Prep Initials
E245.1	01/10/2003 6:45	R_T

METALS BY METHOD 200.7, TOTAL			MCL	E200.7	Units: mg/L		
Antimony	0.114	0.005	1		01/16/03 12:56	NS	1465789
Arsenic	0.0118	0.005	1		01/16/03 12:56	NS	1465789
Lead	ND	0.005	1		01/16/03 12:56	NS	1465789
Selenium	ND	0.005	1		01/16/03 12:56	NS	1465789
Thallium	ND	0.005	1		01/16/03 12:56	NS	1465789
Barium	0.168	0.005	1		01/08/03 13:29	EG	1464088
Beryllium	ND	0.003	1		01/08/03 13:29	EG	1464088
Cadmium	ND	0.005	1		01/08/03 13:29	EG	1464088
Chromium	0.0168	0.01	1		01/08/03 13:29	EG	1464088
Cobalt	ND	0.01	1		01/08/03 13:29	EG	1464088
Copper	ND	0.01	1		01/08/03 13:29	EG	1464088
Molybdenum	ND	0.02	1		01/08/03 13:29	EG	1464088
Nickel	ND	0.02	1		01/08/03 13:29	EG	1464088
Silver	ND	0.01	1		01/08/03 13:29	EG	1464088
Vanadium	0.0103	0.005	1		01/08/03 13:29	EG	1464088
Zinc	ND	0.02	1		01/08/03 13:29	EG	1464088

Prep Method	Prep Date	Prep Initials
E200.7	01/08/2003 8:15	MW

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID: H-1

Collected: 01/02/2003 11:40

SPL Sample ID: 03010140-02

Site: 5755 Broadway

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL			MCL	E245.1	Units: mg/L		
Mercury	ND	0.0002	1		01/10/03 9:48	R_T	1457950

Prep Method	Prep Date	Prep Initials
E245.1	01/10/2003 6:45	R_T

METALS BY METHOD 200.7, TOTAL			MCL	E200.7	Units: mg/L		
Antimony	0.0438	0.005	1		01/16/03 13:31	NS	1465795
Arsenic	0.00849	0.005	1		01/16/03 13:31	NS	1465795
Lead	0.039	0.005	1		01/16/03 13:31	NS	1465795
Selenium	ND	0.005	1		01/16/03 13:31	NS	1465795
Thallium	ND	0.005	1		01/16/03 13:31	NS	1465795
Barium	0.232	0.005	1		01/08/03 14:06	EG	1464094
Beryllium	ND	0.003	1		01/08/03 14:06	EG	1464094
Cadmium	0.00812	0.005	1		01/08/03 14:06	EG	1464094
Chromium	ND	0.01	1		01/08/03 14:06	EG	1464094
Cobalt	ND	0.01	1		01/08/03 14:06	EG	1464094
Copper	0.0627	0.01	1		01/08/03 14:06	EG	1464094
Molybdenum	ND	0.02	1		01/08/03 14:06	EG	1464094
Nickel	ND	0.02	1		01/08/03 14:06	EG	1464094
Silver	ND	0.01	1		01/08/03 14:06	EG	1464094
Vanadium	0.00807	0.005	1		01/08/03 14:06	EG	1464094
Zinc	1.99	0.02	1		01/08/03 14:06	EG	1464094

Prep Method	Prep Date	Prep Initials
E200.7	01/08/2003 8:15	MW

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Oil Products US

INC#98995756

Analysis: Mercury, Total
Method: E245.1

WorkOrder: 03010140
Lab Batch ID: 24696

Method Blank

Samples in Analytical Batch:

RunID: HGLB_030110A-1457938 Units: mg/L
Analysis Date: 01/10/2003 9:18 Analyst: R_T
Preparation Date: 01/10/2003 6:45 Prep By: R_T Method E245.1
Lab Sample ID: 03010140-01A Client Sample ID: S-2
03010140-02A H-1

Table with 3 columns: Analyte, Result, Rep Limit. Row: Mercury, ND, 0.0002

Laboratory Control Sample (LCS)

RunID: HGLB_030110A-1457939 Units: mg/L
Analysis Date: 01/10/2003 9:21 Analyst: R_T
Preparation Date: 01/10/2003 6:45 Prep By: R_T Method E245.1

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Row: Mercury, 0.002, 0.002094, 105, 80, 120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03010065-01
RunID: HGLB_030110A-1457941 Units: mg/L
Analysis Date: 01/10/2003 9:26 Analyst: R_T
Preparation Date: 01/10/2003 6:45 Prep By: R_T Method E245.1

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Row: Mercury, ND, 0.002, 0.002118, 105.9, 0.002, 0.002108, 105.4, 0.4659, 20, 75, 125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Oil Products US
INC#98995756

Analysis: Metals by Method 200.7, Total
Method: E200.7

WorkOrder: 03010140
Lab Batch ID: 24717

Method Blank

Samples in Analytical Batch:

RunID: TJA_030108E-1464086 Units: mg/L
Analysis Date: 01/08/2003 13:16 Analyst: EG
Preparation Date: 01/08/2003 8:15 Prep By: MW Method E200.7

Lab Sample ID Client Sample ID
03010140-01A S-2
03010140-02A H-1

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Molybdenum, Nickel, Silver, Vanadium, Zinc.

Laboratory Control Sample (LCS)

RunID: TJA_030108E-1464087 Units: mg/L
Analysis Date: 01/08/2003 13:21 Analyst: EG
Preparation Date: 01/08/2003 8:15 Prep By: MW Method E200.7

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Rows include Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Molybdenum, Nickel, Silver, Vanadium, Zinc.

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03010140-01
RunID: TJA_030108E-1464089 Units: mg/L
Analysis Date: 01/08/2003 13:35 Analyst: EG
Preparation Date: 01/08/2003 8:15 Prep By: MW Method E200.7

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Oil Products US

INC#98995756

Analysis: Metals by Method 200.7, Total
Method: E200.7

WorkOrder: 03010140
Lab Batch ID: 24717

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows include Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Molybdenum, Nickel, Silver, Vanadium, and Zinc.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Oil Products US

INC#98995756

Analysis: Metals by Method 200.7, Total
Method: E200.7

WorkOrder: 03010140
Lab Batch ID: 24717-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_030116A-1465787 Units: mg/L
Analysis Date: 01/16/2003 12:42 Analyst: NS
Preparation Date: 01/08/2003 8:15 Prep By: MW Method E200.7

Lab Sample ID Client Sample ID
03010140-01A S-2
03010140-02A H-1

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Antimony, Arsenic, Lead, Selenium, and Thallium, all with ND results and 0.005 limits.

Laboratory Control Sample (LCS)

RunID: TJAT_030116A-1465788 Units: mg/L
Analysis Date: 01/16/2003 12:47 Analyst: NS
Preparation Date: 01/08/2003 8:15 Prep By: MW Method E200.7

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Rows include Antimony, Arsenic, Lead, Selenium, and Thallium with various recovery percentages.

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03010140-01
RunID: TJAT_030116A-1465790 Units: mg/L
Analysis Date: 01/16/2003 13:01 Analyst: NS
Preparation Date: 01/08/2003 8:15 Prep By: MW Method E200.7

Large table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows include Antimony, Arsenic, Lead, Selenium, and Thallium.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	03010140	Received By:	NB
Date and Time Received:	1/7/2003 9:30:00 AM	Carrier name:	FedEx
Temperature:	3	Chilled by:	Water Ice

- 1. Shipping container/cooler in good condition? Ye No Not Present
- 2. Custody seals intact on shipping container/cooler? Ye No Not Present
- 3. Custody seals intact on sample bottles? Ye No Not Present
- 4. Chain of custody present? Ye No
- 5. Chain of custody signed when relinquished and received? Ye No
- 6. Chain of custody agrees with sample labels? Ye No
- 7. Samples in proper container/bottle? Ye No
- 8. Sample containers intact? Ye No
- 9. Sufficient sample volume for indicated test? Ye No
- 10. All samples received within holding time? Ye No
- 11. Container/Temp Blank temperature in compliance? Ye No
- 12. Water - VOA vials have zero headspace Ye No Not Applicable
- 13. Water - pH acceptable upon receipt? Ye No Not Applicable

SPL Representative:	<input type="text"/>	Contact Date & Time:	<input type="text"/>
Client Name Contacted:	<input type="text"/>		
Non Conformance Issues:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

WELL GAUGING DATA

Project # 03030-242 Date 1/30/03 Client Shell

Site 5755 Broadway, 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	
S-1	3					2.12	11.68	↓	
S-2	4		gauged w/stinger in well			2.09 2.16	9.63		
S-3	4					2.16	9.71		
H-1	4		gauged w/stinger in well			2.10	12.04		
T-2	12					1.01	13.02		
			T-2: check w/ disp. ball for product before and saw none.						

SHELL WELL MONITORING DATA SHEET

BTS #: 030130-2H2	Site: 5755 Broadway, Oakland
Sampler: Ryan H	Date: 1/30/03
Well I.D.: 5-1	Well Diameter: 2 (3) 4 6 8
Total Well Depth (TD): 11.68	Depth to Water (DTW): 2.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grde	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.03	

Purge Method: Bailor Disposable Bailor Middlebury Electric Submersible

Watera Peristaltic Extraction Pump Other _____

Sampling Method: Bailor Disposable Bailor Extraction Port Dedicated Tubing

Other: _____

$3.5 \text{ (Gals.)} \times 3 = 10.5 \text{ Gals.}$ <p style="font-size: small; margin: 0;">1 Case Volume Specified Volumes Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1025	64.6	7.7	470	>200	3.5	cloudy
1028	63.1	7.9	430	107	7.0	turbid
1033	62.7	7.8	448	110	10.5	"

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Date: 1/30/03 Sampling Time: 1215 Depth to Water: 5.92 @ site departure

Sample I.D.: 5-1 Laboratory: Kirt SPL Other: 1

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030130-RH2	Site: 5755 Broadway, Oakland
Sampler: RyanH	Date: 1/30/03
Well I.D.: S-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 9.63	Depth to Water (DTW): 2.09
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Granite	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.60	

Purge Method: Bailor Disposable Bailor Middleburg Electric Submersible

Waterm: Peristaltic Extraction Pump Other _____

Sampling Method: Bailor Disposable Bailor Extraction Port Dedicated Tubing

Other: _____

$\frac{5.0 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{15.0 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1137	62.6	7.0	1005	59.2	5.0	Clear
						Well dewatered @ 6.0 gal
1230	63.1	7.0	975	36.2	6.0	Clear

Did well dewater? Yes No Gallons actually evacuated: 6.0

Sampling Date: 1/30/03 Sampling Time: 1230 Depth to Water: 3.60

Sample I.D.: S-2 Laboratory: Kitt SPL 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: _____ mg/L

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030130-RH 2	Site: 5755 Broadway, Oakland
Sampler: Ryan H	Date: 1/30/03
Well I.D.: 5-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 9.71	Depth to Water (DTW): 2.16
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.61	

Purge Method: Bailor Disposable Bailor Middleburg Electric Submersible

Water: Peristaltic Extraction Pump Other _____

Sampling Method: Bailor Disposable Bailor Extraction Port Dedicated Tubing

Other: _____

5 (Gals.) X 3 = 15 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1042	62.9	7.5	735	55.0	5.0	clear
1043	Well dewatered @ 7.5 gal					DTW = 7.87
1145	64.3	7.2	712	34.2	7.5	clear

Did well dewater? Yes No Gallons actually evacuated: 7.5

Sampling Date: 1/30/03 Sampling Time: 1145 Depth to Water: 7 → 3.45

Sample I.D.: 5-3 Laboratory: Kiff SPL Other _____

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

EB I.D. (if applicable): @ This 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

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030130-RH2</u>	Site: <u>5755 Broadway, Oakland</u>
Sampler: <u>Ryan H</u>	Date: <u>1/30/03</u>
Well I.D.: <u>H-1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>12.04</u>	Depth to Water (DTW): <u>2.10</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grnds	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

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

Sampling Method: ~~Water~~ Disposable Bailer Extraction Port Dedicated Tubing Other:

Grab (Gals.) X 3 = 0 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1000</u>	<u>63.1</u>	<u>6.5</u>	<u>299</u>	<u>54.4</u>	<u>0</u>	<u>clear w/ debris</u>

Did well dewater? ~~Yes~~ No Gallons actually evacuated: 0

Sampling Date: 1/30/03 Sampling Time: 1000 Depth to Water: 2.10

Sample I.D.: H-1 Laboratory: Kiff SPL 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: mg/L

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

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030102-SS3</u>	Site: <u>5755 BROADWAY OAKLAND</u>
Sampler: <u>SODCH</u>	Date: <u>1/2/03</u>
Well I.D.: <u>5-2</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>9.63</u>	Depth to Water (DTW): <u>2.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>3.65</u>	

Purge Method: Bailer Water Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
Electric Submersible Other _____ Dedicated Tubing

Other: _____

5 (Gals.) X 3 = 15 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>(µS)</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1147</u>	<u>62.9</u>	<u>6.9</u>	<u>1000</u>	<u>15</u>	<u>5</u>	<u>CLEAR / GAS ODOR</u>
<u>well dewatered @ 5 gal.</u>						<u>DTW = 7.65</u>
<u>1200</u>	<u>63.5</u>	<u>7.0</u>	<u>985</u>	<u>14</u>	<u>—————</u>	<u>CLEAR / GAS ODOR</u>

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

Sampling Date: 1/2/03 Sampling Time: 1200 Depth to Water: 6.10 @ SITE DEPART.

Sample I.D.: 5-2 Laboratory: (Kiff) SPL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: EPA 8260 FULL SUITE + CAM 17 METALS BY 200-7

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

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030102-553</u>	Site: <u>5755 BROADWAY OAKLAND</u>
Sampler: <u>SDDCH</u>	Date: <u>1/2/03</u>
Well I.D.: <u>H-1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>12.04</u>	Depth to Water (DTW): 12.04 <u>1.45</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>3.57</u>	

Purge Method: Bailer Water Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
Electric Submersible Other _____ Dedicated Tubing

$\frac{7}{1} \text{ (Gals.)} \times \frac{3}{\text{Specified Volumes}} = \frac{21}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1132</u>	<u>62.8</u>	<u>7.5</u>	<u>624</u>	<u>40</u>	<u>7</u>	<u>CLEAR</u>
<u>1134</u>	<u>63.5</u>	<u>7.4</u>	<u>590</u>	<u>34</u>	<u>14</u>	"
<u>1136</u>	<u>63.8</u>	<u>7.4</u>	<u>581</u>	<u>20</u>	<u>21</u>	"

Did well dewater? Yes No Gallons actually evacuated: 21

Sampling Date: 1/2/03 Sampling Time: 1140 Depth to Water: 3.55

Sample I.D.: H-1 Laboratory: Kitt SPL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: EPA 8260 FULL SATE + CAM 17 METALS BY 200.7

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