



**CONESTOGA-ROVERS
& ASSOCIATES**

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TRANSMITTAL

DATE: May 3, 2011 REFERENCE NO.: 240483
PROJECT NAME: 5755 Broadway, Oakland
TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED
9:04 am, May 05, 2011
Alameda County
Environmental Health

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Sent via: Mail Same Day Courier
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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - First Quarter 2011

As Requested For Review and Comment
 For Your Use _____

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Thrifty Oil Company, c/o Mr. Raymond Fredricksen, P.O. Box 2128, Santa Fe Springs, CA 90670
Clint Mercer, SC Fuels, 1800 West Katella Avenue, Suite 400, Orange, CA 92867
SF Data Room (electronic copy)

Completed by: Peter Schaefer Signed: *Peter Schaefer*

Filing: Correspondence File



Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Re: Shell-branded Service Station
5755 Broadway
Oakland, California
SAP Code 135699
Incident No. 98995756
ACEH Case No. RO0000026

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown
Senior Program Manager



GROUNDWATER MONITORING REPORT - FIRST QUARTER 2011

**SHELL-BRANDED SERVICE STATION
5755 BROADWAY
OAKLAND, CALIFORNIA**

**SAP CODE 135699
INCIDENT NO. 98995756
AGENCY NO. RO0000026**

MAY 3, 2011

REF. NO. 240483 (9)

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

1.1 SITE INFORMATION

Site Address	5755 Broadway, Oakland
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000026
Shell SAP Code	135699
Shell Incident No.	98995756

Date of most recent agency correspondence was November 3, 2010.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2), and a groundwater data table (Table 1). Blaine's field notes are presented in Appendix A, and the laboratory report is presented in Appendix B.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Southeasterly to southwesterly
----------------------------	--------------------------------

Hydraulic Gradient

Averages 0.07

Depth to Water

0.51 to 3.10 feet below top of well casing

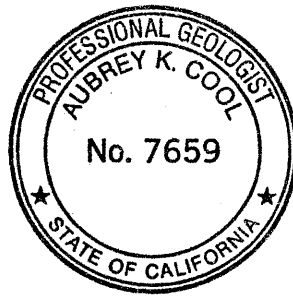
2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the established monitoring program for this site. This site is monitored semiannually during the first and third quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer
Peter Schaefer, CHG, CEG

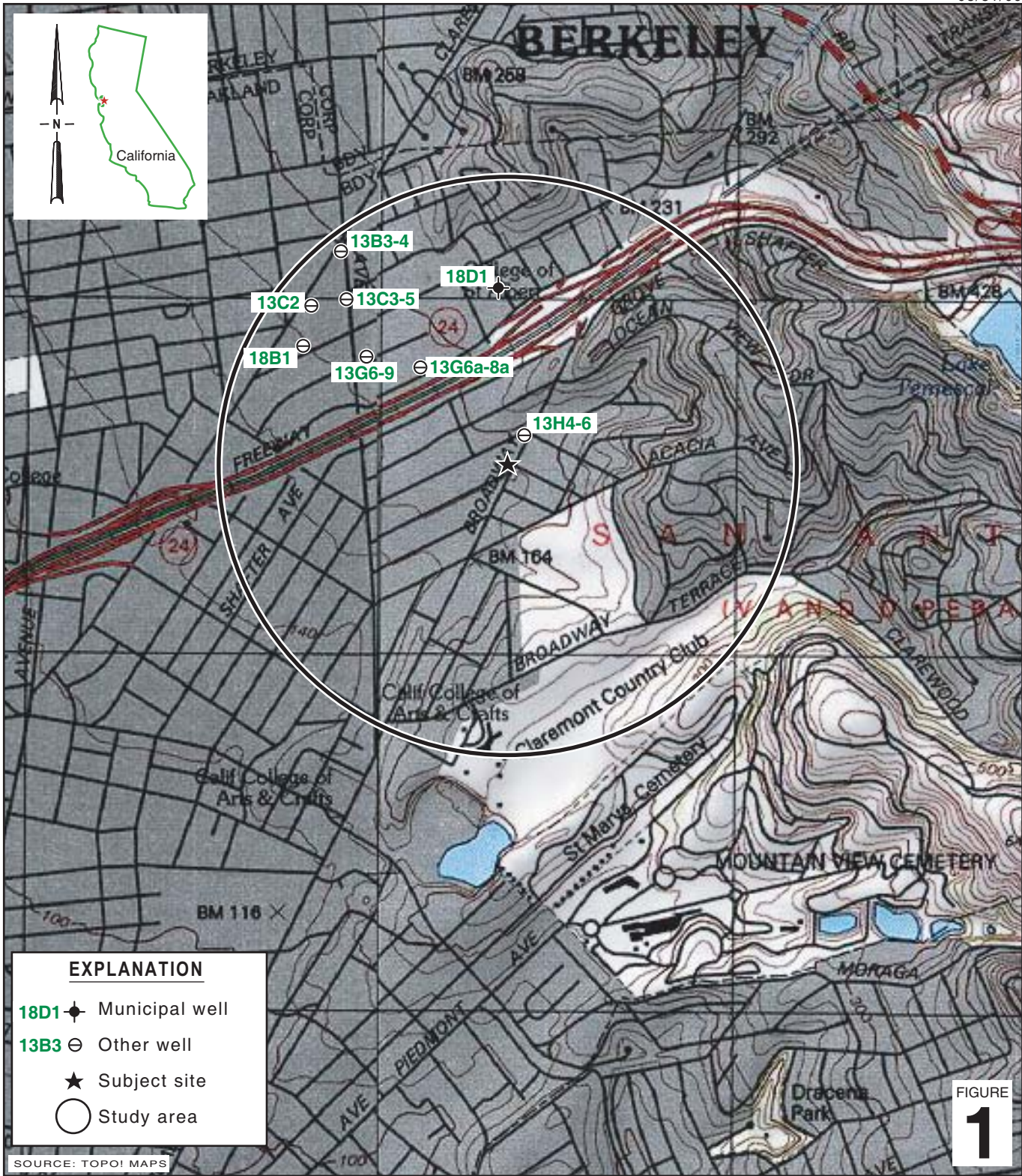
Aubrey K Cool
Aubrey K. Cool, PG



FIGURES



I:\6-charts\2404--\240483-Oakland 5755 Broadway\240483-FIGURES\240483 VICINITY.AI



EXPLANATION	
18D1	◆ Municipal well
13B3	⊖ Other well
★	★ Subject site
○	○ Study area

SOURCE: TOPOI MAPS

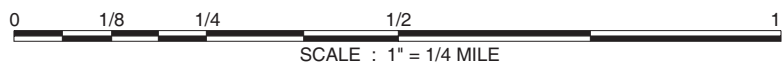


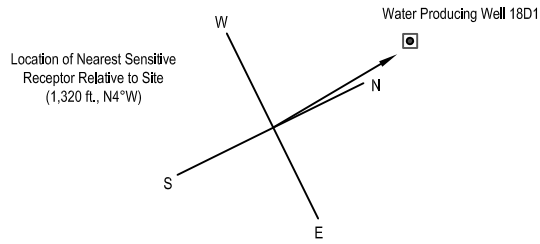
FIGURE 1

Shell-branded Service Station
 5755 Broadway
 Oakland, California



CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map



EXPLANATION

- S-1** ● Monitoring well location
- S-2** ● Groundwater monitoring well used for extraction
- T-1** ✱ Destroyed tank backfill well location
- T-3** ⊕ Pre-pack monitoring well location
- H-1** ○ Horizontal extraction well location

- **OE** Overhead electrical line (OE)
- **STM** Storm drain line (STM)
- **SAN** Sanitary sewer line (SAN)

- ▶ Flow direction
- Manhole
- ▭ x.xx Groundwater flow direction and gradient
- xx.xx Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred

Well	Well designation
ELEV	Groundwater elevation, in feet above msl
Benzene	Benzene and MTBE concentrations are in micrograms per liter and are analyzed by EPA Method 8260
MTBE	

Notes:
ND = Not detected

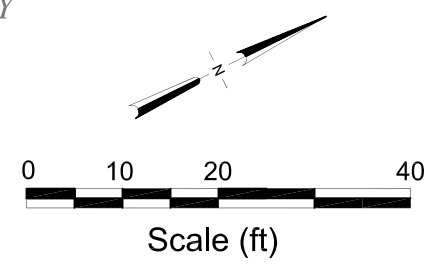
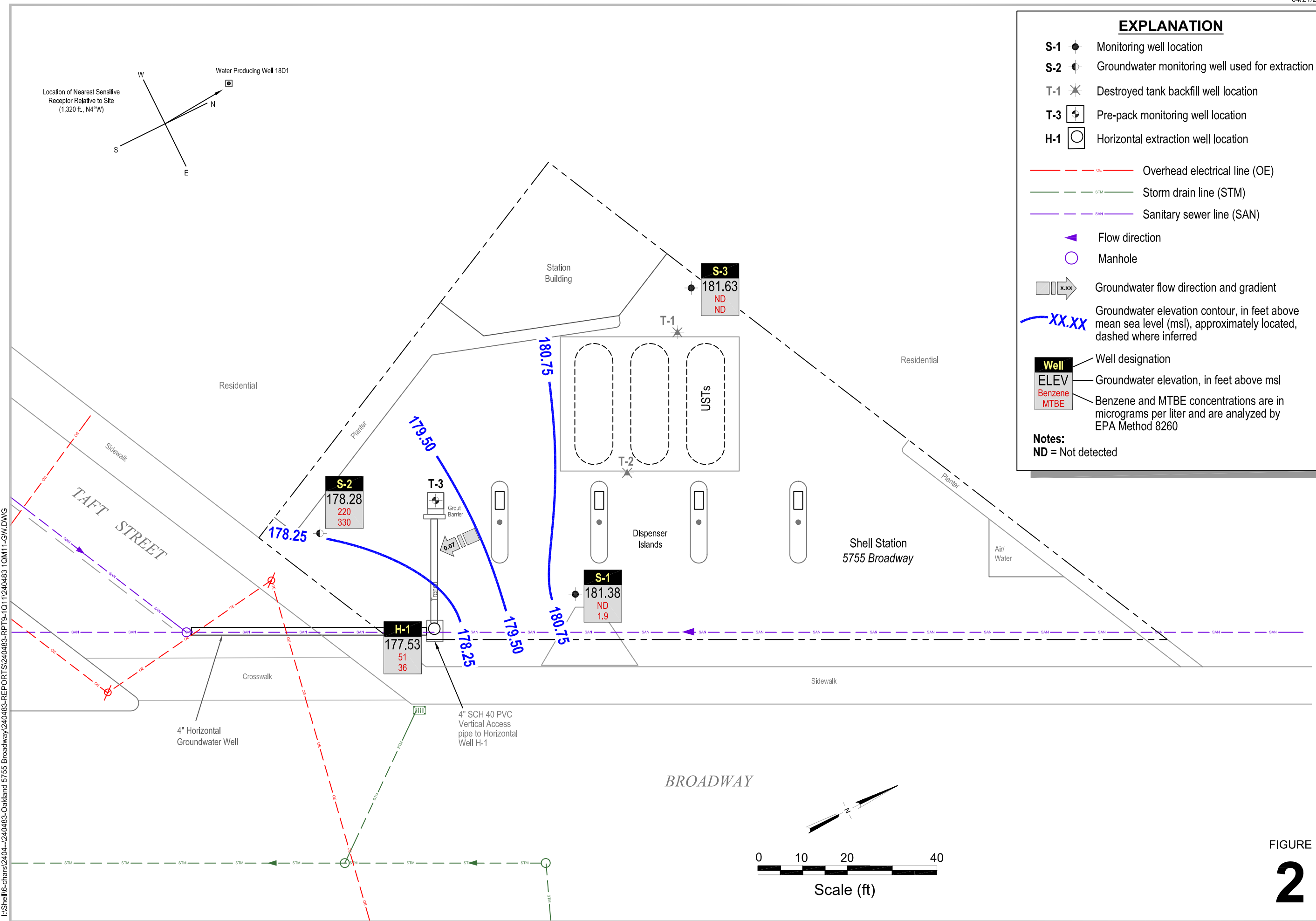


FIGURE
2



I:\Shell\6-chars\2404-1\240483-Oakland 5755 Broadway\240483-REPORTS\240483-RPT9-1Q111240483 1QMI1-GW.DWG

TABLE

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE		DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
							8020 (ug/L)	8260 (ug/L)								
S-1	1/25/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	100.00	3.88	96.12	---
S-1	6/3/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	100.00	3.51	96.49	---
S-1	8/30/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	100.00	4.24	95.76	---
S-1	11/22/1991	<30	2.3	<0.46	0.3	<0.65	---	---	---	---	---	---	100.00	4.29	95.71	---
S-1	3/13/1992	<30	<0.52	<0.3	<0.3	<0.3	---	---	---	---	---	---	100.00	2.87	97.13	---
S-1	5/28/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.79	96.21	---
S-1	8/19/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	4.43	95.57	---
S-1	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	4.34	95.66	---
S-1	2/10/1993	51	1.4	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	4.20	95.80	---
S-1 (D)	2/10/1993	<50	1.2	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	4.20	95.80	---
S-1	6/11/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.39	96.61	---
S-1	8/3/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.69	96.31	---
S-1	11/2/1993	70a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	4.26	95.74	---
S-1	12/16/1993	---	---	---	---	---	---	---	---	---	---	---	100.00	2.73	97.27	---
S-1	2/1/1994	60a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.38	96.62	---
S-1	5/4/1994	<50	1.1	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.00	97.00	---
S-1	8/18/1994	<50	0.6	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.70	96.30	---
S-1 (D)	8/18/1994	60a	0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.70	96.30	---
S-1	11/9/1994	<50	4	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	2.52	97.48	---
S-1	2/22/1995	50	0.8	0.7	<0.5	1.3	---	---	---	---	---	---	100.00	4.08	95.92	---
S-1	5/2/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	2.58	97.42	---
S-1	8/30/1995	<50	1.7	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.48	96.52	---
S-1	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.99	96.01	---
S-1	2/2/1996	<50	11	<0.5	0.9	<0.5	---	---	---	---	---	---	100.00	2.00	98.00	---
S-1	3/9/1996	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.38	99.62	---
S-1	8/22/1996	<50	1.5	<0.5	<0.5	<0.5	130	---	---	---	---	---	100.00	3.43	96.57	---
S-1	11/7/1996	<50	<0.5	<0.5	<0.5	<0.5	57	---	---	---	---	---	100.00	3.70	96.30	4.33
S-1	2/20/1997	<50	0.64	<0.50	<0.50	1.6	6.5	---	---	---	---	---	100.00	3.60	96.40	2

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE		DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
							8020 (ug/L)	8260 (ug/L)								
S-1	5/30/1997	<50	<0.50	<0.50	<0.50	<0.50	46	---	---	---	---	---	100.00	3.47	96.53	7
S-1 (D)	5/30/1997	<50	<0.50	<0.50	<0.50	<0.50	47	---	---	---	---	---	100.00	3.47	96.53	7
S-1	8/21/1997	<50	<0.50	<0.50	<0.50	0.84	26	---	---	---	---	---	100.00	3.01	96.99	3.1
S-1	11/3/1997	<50	<0.50	1.1	<0.50	1.3	190	---	---	---	---	---	100.00	3.66	96.34	2
S-1	1/20/1998	110	7.9	2.8	4.4	13	53	---	---	---	---	---	100.00	1.84	98.16	4.6
S-1 (D)	1/20/1998	130	9.2	6.9	5.2	15	93	---	---	---	---	---	100.00	1.84	98.16	4.6
S-1	2/16/1999	<50	<0.50	<0.50	<0.50	<0.50	8.6	---	---	---	---	---	100.00	2.43	97.57	2.2
S-1	9/7/1999	---	---	---	---	---	---	---	---	---	---	---	100.00	2.84	97.16	---
S-1	2/2/2000	<50.0	<0.500	<0.500	<0.500	<0.500	202	---	---	---	---	---	100.00	3.10	96.90	2.1
S-1	4/26/2000	---	---	---	---	---	---	---	---	---	---	---	100.00	2.91	97.09	---
S-1	7/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	811	---	---	---	---	---	100.00	3.21	96.79	1.8
S-1	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	100.00	3.18	96.82	---
S-1	2/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	209	---	---	---	---	---	100.00	1.34	98.66	2.2
S-1	6/7/2001	---	---	---	---	---	---	---	---	---	---	---	100.00	1.27	98.73	---
S-1	8/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	100.00	3.16	96.84	4.0
S-1	12/5/2001	---	---	---	---	---	---	2.6	---	---	---	---	100.00	1.90	98.10	---
S-1	1/31/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	100.00	2.67	97.33	---
S-1	6/4/2002	---	---	---	---	---	---	---	---	---	---	---	100.00	1.87	98.13	---
S-1	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	100.00	2.01	97.99	---
S-1	11/7/2002	---	---	---	---	---	---	---	---	---	---	---	181.89	3.01	178.88	---
S-1	11/14/2002	---	---	---	---	---	---	---	---	---	---	---	181.89	3.40	178.49	---
S-1	1/30/2003	<50	<0.50	<0.50	<0.50	<0.50	---	27	---	---	---	---	181.89	2.12	179.77	---
S-1	6/3/2003	---	---	---	---	---	---	---	---	---	---	---	181.89	1.83	180.06	---
S-1	8/27/2003	<50	0.50	1.5	<0.50	2.0	---	130	---	---	---	---	181.89	3.32	178.57	---
S-1	11/25/2003	---	---	---	---	---	---	---	---	---	---	---	181.89	3.28	178.61	---
S-1	2/5/2004	270	2.4	6.4	5.8	19	---	8.3	---	---	---	---	181.89	2.09	179.80	---
S-1	4/21/2004	---	---	---	---	---	---	---	---	---	---	---	181.89	2.61	179.28	---
S-1	8/12/2004	<500	<5.0	<5.0	<5.0	<10	---	1,100	<20	<20	<20	<50	181.89	3.70	178.19	---

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE	MTBE	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
							8020 (ug/L)	8260 (ug/L)								
S-1	11/8/2004	---	---	---	---	---	---	---	---	---	---	---	181.89	3.04	178.85	---
S-1	5/16/2005	<50	<0.50	<0.50	<0.50	<1.0	---	4.9	---	---	---	---	181.89	3.10	178.79	---
S-1	8/16/2005	<50	<0.50	<0.50	<0.50	<1.0	---	64	<2.0	<2.0	<2.0	52	181.89	0.73	181.16	---
S-1	11/3/2005	---	---	---	---	---	---	---	---	---	---	---	181.89	3.49	178.40	---
S-1	2/16/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	22.7	---	---	---	---	181.89	0.73	181.16	---
S-1	5/5/2006	---	---	---	---	---	---	---	---	---	---	---	181.89	0.71	181.18	---
S-1	8/21/2006	<50.0	0.630	<0.500	<0.500	1.71	---	44.6	<0.500	<0.500	<0.500	<10.0	181.89	3.34	178.55	---
S-1	11/13/2006	---	---	---	---	---	---	---	---	---	---	---	181.89	2.55	179.34	---
S-1	1/30/2007	<50	<0.50	<0.50	<0.50	<1.0	---	24	---	---	---	---	181.89	0.91	180.98	---
S-1	5/23/2007	---	---	---	---	---	---	---	---	---	---	---	181.89	2.50	179.39	---
S-1	8/9/2007	<50 h	0.35 i	<1.0	<1.0	<1.0	---	33	<2.0	<2.0	<2.0	<10	181.89	0.81	181.08	---
S-1	11/13/2007	---	---	---	---	---	---	---	---	---	---	---	181.89	0.55	181.34	---
S-1	2/13/2008	<50 h	0.56	<1.0	<1.0	<1.0	---	2.9	---	---	---	---	181.89	0.45	181.44	---
S-1	5/20/2008	---	---	---	---	---	---	---	---	---	---	---	181.89	1.00	180.89	---
S-1	8/4/2008	66	<0.50	<1.0	<1.0	<1.0	---	3.6	<2.0	<2.0	<2.0	<10	181.89	0.72	181.17	---
S-1	12/2/2008	---	---	---	---	---	---	---	---	---	---	---	181.89	0.89	181.00	---
S-1	1/23/2009	<50	<0.50	<1.0	<1.0	2.1	---	4.8	---	---	---	---	181.89	0.81	181.08	---
S-1	5/5/2009	---	---	---	---	---	---	---	---	---	---	---	181.89	0.81	181.08	---
S-1	8/7/2009	53	0.86	<1.0	<1.0	<1.0	---	34	<2.0	<2.0	<2.0	11	181.89	4.33	177.56	---
S-1	2/3/2010	140	15	48	1.6	15	---	2.4	---	---	---	---	181.89	0.62	181.27	---
S-1	8/31/2010	<50	<0.50	<1.0	<1.0	<1.0	---	6.3	<2.0	<2.0	<2.0	<10	181.89	1.00	180.89	---
S-1	2/10/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.9	---	---	---	---	181.89	0.51	181.38	---
S-2	1/25/1991	450	140	1.8	6.2	15	---	---	---	---	---	---	98.92	4.52	94.40	---
S-2	6/3/1991	490	150	2.7	8.2	7	---	---	---	---	---	---	98.92	4.02	94.90	---
S-2	8/30/1991	70	0.37	<0.3	<0.3	<0.3	---	---	---	---	---	---	98.92	4.70	94.22	---
S-2	11/22/1991	1,600	110	9.3	29	150	---	---	---	---	---	---	98.92	4.72	94.20	---
S-2	3/13/1992	1,300	210	5.7	34	79	---	---	---	---	---	---	98.92	3.47	95.45	---

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE		DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
							8020 (ug/L)	8260 (ug/L)								
S-2	5/28/1992	100	28	<0.5	<0.5	<0.5	---	---	---	---	---	---	98.92	4.45	94.45	---
S-2	8/19/1992	470	42	<0.5	8.3	4	---	---	---	---	---	---	98.92	4.84	94.08	---
S-2	11/18/1992	490	43	39	17	29	---	---	---	---	---	---	98.92	4.73	94.19	---
S-2	2/10/1993	19,000	710	760	80	370	---	---	---	---	---	---	98.92	4.83	94.09	---
S-2	6/11/1993	33,000	3,100	1,600	370	1,100	---	---	---	---	---	---	98.92	3.74	95.18	---
S-2	8/3/1993	18,000	1,400	130	81	130	---	---	---	---	---	---	98.92	4.23	94.69	---
S-2 (D)	8/3/1993	19,000	1,400	140	86	150	---	---	---	---	---	---	98.92	4.23	94.69	---
S-2	11/2/1993	12,000 a	470	47	31	92	---	---	---	---	---	---	98.92	4.72	94.20	---
S-2 (D)	11/2/1993	13,000 a	530	47	35	96	---	---	---	---	---	---	98.92	4.72	94.20	---
S-2	12/16/1993	---	---	---	---	---	---	---	---	---	---	---	98.92	3.00	95.92	---
S-2	2/1/1994	31,000 a	430	46	50	130	---	---	---	---	---	---	98.92	3.48	95.44	---
S-2 (D)	2/1/1994	31,000 a	300	33	30	100	---	---	---	---	---	---	98.92	3.48	95.44	---
S-2	5/4/1994	3,900	1,200	31	53	71	---	---	---	---	---	---	98.92	3.26	95.66	---
S-2 (D)	5/4/1994	4,500	1,200	37	57	110	---	---	---	---	---	---	98.92	3.26	95.66	---
S-2	8/18/1994	24,000	600	8.3	15	27	---	---	---	---	---	---	98.92	3.98	94.94	---
S-2	11/9/1994	1,400 a	240	9.3	13	20	---	---	---	---	---	---	98.92	3.10	95.82	---
S-2 (D)	11/9/1994	1,800	260	8.5	13	21	---	---	---	---	---	---	98.92	3.10	95.82	---
S-2	2/22/1995	29,000	550	18	12	63	---	---	---	---	---	---	98.92	4.02	94.90	---
S-2 (D)	2/22/1995	28,000	530	17	10	60	---	---	---	---	---	---	98.92	4.02	94.90	---
S-2	5/2/1995	4,400	1,000	25	38	77	---	---	---	---	---	---	98.92	2.86	96.06	---
S-2 (D)	5/2/1995	4,400	1,000	26	41	83	---	---	---	---	---	---	98.92	2.86	96.06	---
S-2	8/30/1995	800	350	20	6.7	16	---	---	---	---	---	---	98.92	4.06	94.86	---
S-2 (D)	8/30/1995	960	220	22	12	48	---	---	---	---	---	---	98.92	4.06	94.86	---
S-2	11/28/1995	2,000	230	220	50	230	---	---	---	---	---	---	98.92	4.48	94.44	---
S-2 (D)	11/28/1995	2,100	240	230	51	230	---	---	---	---	---	---	98.92	4.48	94.44	---
S-2	2/2/1996	18,000	540	18	12	22	---	---	---	---	---	---	98.92	1.99	96.93	---
S-2 (D)	2/2/1996	11,000	600	18	13	28	---	---	---	---	---	---	98.92	1.99	96.93	---
S-2	3/9/1996	3,800	1,500	27	30	58	---	---	---	---	---	---	98.92	3.27	95.65	---

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE		DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
							8020 (ug/L)	8260 (ug/L)								
S-2 (D)	3/9/1996	3,500	1,300	24	21	53	---	---	---	---	---	---	98.92	3.27	95.65	---
S-2	8/22/1996	<20,000	490	<200	<200	<200	43,000	---	---	---	---	---	98.92	3.85	95.07	---
S-2 (D)	8/22/1996	<20,000	570	<200	<200	<200	59,000	51,000	---	---	---	---	98.92	3.85	95.07	---
S-2	11/7/1996	<5,000	290	<50	<50	<50	32,000	---	---	---	---	---	98.92	4.00	94.92	3.51
S-2 (D)	11/7/1996	<5,000	290	<50	<50	<50	32,000	---	---	---	---	---	98.92	4.00	94.92	3.51
S-2	2/20/1997	<10,000	520	<100	<100	<100	28,000	---	---	---	---	---	98.92	3.20	95.72	1
S-2 (D)	2/20/1997	<10,000	520	<100	<100	<100	35,000	---	---	---	---	---	98.92	3.20	95.72	1
S-2	5/30/1997	150	15	11	3.5	15	11	---	---	---	---	---	98.92	3.87	95.05	6
S-2	8/21/1997	1,600	220	<10	20	<10	18,000	---	---	---	---	---	98.92	3.29	95.63	3.3
S-2 (D)	8/21/1997	1,500	180	<10	16	<10	21,000	---	---	---	---	---	98.92	3.29	95.63	3.3
S-2	11/3/1997	1,000	94	<10	<10	<10	<50	---	---	---	---	---	98.92	4.02	94.90	1.8
S-2	1/20/1998	590	110	8.3	18	23	7,800	---	---	---	---	---	98.92	1.54	97.38	3.2
S-2	7/23/1998	2,600	840	<10	44	22	15,000	---	---	---	---	---	98.92	2.89	96.03	---
S-2	2/16/1999	680	140	6.1	10	18	19,000	---	---	---	---	---	98.92	1.86	97.06	2.0
S-2	9/7/1999	<2,000	248	<20.0	<20.0	<20.0	22,800	---	---	---	---	---	98.92	3.66	95.26	1.8
S-2	2/2/2000	103	0.825	<0.500	<0.500	<0.500	11,700	10,500	---	---	---	---	98.92	4.02	94.90	2.0
S-2	4/26/2000	4,040	799	<20.0	40.9	255	19,000	17,100 b	---	---	---	---	98.92	2.63	96.29	2.3
S-2	7/25/2000	1,120	195	5.94	5.62	11.3	26,600	21,100	---	---	---	---	98.92	3.42	95.50	0.6
S-2 b	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	2/12/2001	9,010	1,430	<20.0	219	848	28,300	17,000	---	---	---	---	98.92	1.47	97.45	2.0
S-2	6/7/2001	31,000	1,000	<25	630	3,200	---	17,000	---	---	---	---	98.92	3.43	95.49	10.4
S-2	8/31/2001	50,000	950	<20	1,500	6,000	---	17,000	---	---	---	---	98.92	4.72	94.20	0.9
S-2	12/5/2001	49,000	590	7.2	1,400	4,900	---	11,000	---	---	---	---	98.92	1.53	97.39	---
S-2	1/31/2002	37,000	860	<25	1,100	4,000	---	14,000	---	---	---	---	98.92	2.13	96.79	---
S-2	6/4/2002	150,000	800	<20	1,200	4,000	---	9,200	---	---	---	---	98.92	2.24	96.68	---
S-2	7/25/2002	37,000	350	<20	660	2,400	---	10,000	---	---	---	---	98.92	2.03	96.89	---
S-2	11/14/2002	25,000	510	<25	590	2,000	---	10,000	---	---	---	---	180.79	3.17	177.62	---
S-2	1/2/2003	---	710	<25	560	2,074	---	---	---	---	---	---	180.79	2.15	178.64	---

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE		DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
							8020 (ug/L)	8260 (ug/L)								
S-2	1/30/2003	21,000	670	<20	360	1,200	---	9,300	---	---	---	---	180.79	2.09	178.70	---
S-2	6/3/2003	42,000	800	<50	660	1,500	---	9,600	---	---	---	---	180.79	3.08	177.71	---
S-2	8/27/2003	31,000	630	<100	510	1,200	---	15,000	---	---	---	---	180.79	2.55	178.24	---
S-2	11/25/2003 d	8,400 a	<50	<50	<50	<100	---	4,500	---	---	---	---	180.79	---	---	---
S-2	2/5/2004	Well inaccessible	---	---	---	---	---	---	---	---	---	---	180.79	---	---	---
S-2	02/10/2004 d	<2,500	130	<25	<25	<50	---	3,800	---	---	---	---	180.79	---	---	---
S-2	4/21/2004	4,700	100	<25	<25	<50	---	2,900	---	---	---	---	180.79	7.38	173.41	---
S-2	8/12/2004	2,600	63	<13	<13	<25	---	1,400	<50	<50	<50	1,200	180.79	e	---	---
S-2	11/8/2004	3,600	<25	<25	<25	<50	---	1,300	---	---	---	---	180.79	f	---	---
S-2	5/16/2005	73 g	<0.50	<0.50	<0.50	<1.0	---	3.3	---	---	---	---	180.79	3.33	177.46	---
S-2	8/16/2005	10,000	370	<13	60	63	---	1,300	<50	<50	<50	2,900	180.79	4.03	176.76	---
S-2	11/3/2005	1,010	31.4	<0.500	2.81	31.4	---	349	---	---	---	880	180.79	---	---	---
S-2	2/16/2006	5,350	79.0	<0.500	2.90	59.5	---	687	---	---	---	690	180.79	5.86	174.93	---
S-2	5/5/2006	5,240	148	<0.500	17.1	48.8	---	815	---	---	---	478	180.79	---	---	---
S-2	8/21/2006	4,640	162	0.910	25.8	27.2	---	519	<0.500	<0.500	0.780	711	180.79	4.72	176.07	---
S-2	11/13/2006	2,100	200	<5.0	58	21	---	820	---	---	---	1,300	180.79	3.44	177.35	---
S-2	1/30/2007	3,300	250	<5.0	59	17	---	1,100	---	---	---	1,600	180.79	2.32	178.47	---
S-2	5/23/2007	4,600 h	410	2.3 i	92	24.8 i	---	890	---	---	---	620	180.79	2.61	178.18	---
S-2	8/9/2007	4,100 h	320	<10	30	11	---	650	<20	<20	<20	1,400	180.79	3.72	177.07	---
S-2	11/13/2007	4,900 h	230	<10	33	12	---	540	<20	<20	<20	590	180.79	2.31	178.48	---
S-2	2/13/2008	4,800 h	560	<10	67	37	---	1,500	---	---	---	610	180.79	1.83	178.96	---
S-2	5/20/2008	5,400	340	<10	11	17	---	460	---	---	---	310	180.79	2.90	177.89	---
S-2	8/4/2008	4,800	240	<10	<10	<10	---	390	<20	<20	<20	640	180.79	3.95	176.84	---
S-2	12/2/2008	3,700	120	<5.0	<5.0	<5.0	---	280	---	---	---	810	180.79	4.13	176.66	---
S-2	1/23/2009	3,500	210	<10	26	<10	---	640	---	---	---	650	180.79	2.85	177.94	---
S-2	5/5/2009	3,200	190	<5.0	7.6	5.5	---	340	---	---	---	350	180.79	2.48	178.31	---
S-2	8/7/2009	3,100	76	<1.0	<1.0	2.3	---	81	<2.0	<2.0	<2.0	310	180.79	4.78	176.01	---
S-2	2/3/2010	4,000	180	<1.0	34	9.1	---	420	---	---	---	190	180.79	2.25	178.54	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE		DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
							8020 (ug/L)	8260 (ug/L)								
S-2	8/31/2010	3,400	120	<1.0	<1.0	1.8	---	83	<2.0	<2.0	<2.0	380	180.79	4.32	176.47	---
S-2	2/10/2011	3,600	220	<2.0	13	<4.0	---	330	---	---	---	450	180.79	2.51	178.28	---
S-3	1/25/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	101.67	3.84	97.83	---
S-3	6/3/1991	<30	<0.3	0.3	0.3	0.3	---	---	---	---	---	---	101.67	3.25	98.42	---
S-3	8/3/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	101.67	4.73	96.94	---
S-3	11/22/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	101.67	4.81	96.86	---
S-3	3/13/1992	<30	<0.3	0.3	0.3	0.3	---	---	---	---	---	---	101.67	2.29	99.38	---
S-3	5/28/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.62	98.05	---
S-3	8/19/1992	<50	<0.5	<0.5	<0.5	0.5	---	---	---	---	---	---	101.67	4.66	97.01	---
S-3	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	4.51	97.16	---
S-3	2/10/1993	30	1.9	3.2	2.4	5.6	---	---	---	---	---	---	101.67	4.36	97.31	---
S-3	6/11/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.91	98.76	---
S-3 (D)	6/11/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.91	98.76	---
S-3	8/3/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.70	97.97	---
S-3	11/2/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	101.67	---	---	---
S-3	12/16/1993	---	---	---	---	---	---	---	---	---	---	---	101.67	2.12	99.55	---
S-3	2/1/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.90	98.77	---
S-3	5/4/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.54	99.13	---
S-3	8/18/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.51	98.16	---
S-3	11/9/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.44	99.23	---
S-3	2/22/1995	80	<0.5	0.5	<0.5	0.5	---	---	---	---	---	---	101.67	4.12	97.55	---
S-3	5/2/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.83	98.84	---
S-3	8/30/1995	<50	0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.16	98.51	---
S-3	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.87	97.80	---
S-3	2/2/1996	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.24	99.43	---
S-3	3/9/1996	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.05	98.62	---
S-3	8/22/1996	<50	0.8	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	101.67	2.85	98.82	4.6

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE	MTBE	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to	GW	DO
							8020 (ug/L)	8260 (ug/L)						Water (ft.)	Elevation (MSL)	Reading (ppm)
S-3	11/7/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	101.67	3.35	98.32	4.6
S-3	2/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	3.00	98.67	1
S-3	5/30/1997	140	14	10	3.3	14	8.6	---	---	---	---	---	101.67	3.00	98.67	8
S-3	8/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	2.94	98.73	3.3
S-3	11/3/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	3.36	98.31	2.4
S-3 (D)	11/3/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	3.36	98.31	2.4
S-3	1/20/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	101.67	---	---	---
S-3	7/23/1998	---	---	---	---	---	---	---	---	---	---	---	101.67	2.69	98.98	---
S-3	2/16/1999	<50	<0.50	0.92	0.59	3.9	3.7	---	---	---	---	---	101.67	2.20	99.47	2.8
S-3	9/7/1999	---	---	---	---	---	---	---	---	---	---	---	101.67	2.81	98.86	---
S-3	2/2/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	101.67	3.97	97.70	2.7
S-3	4/26/2000	---	---	---	---	---	---	---	---	---	---	---	101.67	2.96	98.71	---
S-3	7/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	101.67	3.00	98.67	0.8
S-3	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	101.67	2.86	98.81	---
S-3	2/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	101.67	2.47	99.20	2.3
S-3	6/7/2001	---	---	---	---	---	---	---	---	---	---	---	101.67	2.78	98.89	---
S-3	8/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	101.67	3.94	97.73	0.5
S-3	12/5/2001	---	---	---	---	---	---	---	---	---	---	---	101.67	2.05	99.62	---
S-3	1/31/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	101.67	2.29	99.38	---
S-3	6/4/2002	---	---	---	---	---	---	---	---	---	---	---	101.67	2.56	99.11	---
S-3	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	101.67	2.70	98.97	---
S-3	11/14/2002	---	---	---	---	---	---	---	---	---	---	---	183.54	3.43	180.11	---
S-3	1/30/2003	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	183.54	2.16	181.38	---
S-3	1/30/2003	---	---	---	---	---	---	---	---	---	---	---	183.54	2.65	180.89	---
S-3	8/27/2003	<50	<0.50	<0.50	<0.50	<1.0	---	0.55	---	---	---	---	183.54	2.75	180.79	---
S-3	11/25/2003	---	---	---	---	---	---	---	---	---	---	---	183.54	2.85	180.69	---
S-3	2/5/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	183.54	2.04	181.50	---
S-3	4/21/2004	---	---	---	---	---	---	---	---	---	---	---	183.54	2.50	181.04	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	8/12/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	183.54	3.91	179.63	---
S-3	11/8/2004	---	---	---	---	---	---	---	---	---	---	---	183.54	2.84	180.70	---
S-3	5/16/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	183.54	3.05	180.49	---
S-3	8/16/2005	<100	<1.0	<1.0	<1.0	<2.0	---	<1.0	<4.0	<4.0	<4.0	<10	183.54	3.42	180.12	---
S-3	11/3/2005	---	---	---	---	---	---	---	---	---	---	---	183.54	4.09	179.45	---
S-3	2/16/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	---	---	---	---	183.54	2.25	181.29	---
S-3	5/5/2006	---	---	---	---	---	---	---	---	---	---	---	183.54	2.27	181.27	---
S-3	8/21/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	0.570	36.4	183.54	3.17	180.37	---
S-3	11/13/2006	---	---	---	---	---	---	---	---	---	---	---	183.54	3.42	180.12	---
S-3	1/30/2007	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	183.54	2.36	181.18	---
S-3	5/23/2007	---	---	---	---	---	---	---	---	---	---	---	183.54	2.65	180.89	---
S-3	8/9/2007	<50 h	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	183.54	2.93	180.61	---
S-3	11/13/2007	---	---	---	---	---	---	---	---	---	---	---	183.54	2.04	181.50	---
S-3	2/13/2008	<50 h	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	183.54	2.03	181.51	---
S-3	5/20/2008	---	---	---	---	---	---	---	---	---	---	---	183.54	2.75	180.79	---
S-3	8/4/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	183.54	3.52	180.02	---
S-3	12/2/2008	---	---	---	---	---	---	---	---	---	---	---	183.54	3.68	179.86	---
S-3	1/23/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	183.54	2.52	181.02	---
S-3	5/5/2009	---	---	---	---	---	---	---	---	---	---	---	183.54	2.02	181.52	---
S-3	8/7/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	183.54	4.61	178.93	---
S-3	2/3/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	183.54	1.89	181.65	---
S-3	8/31/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	183.54	3.44	180.10	---
S-3	2/10/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	---	---	---	---	183.54	1.91	181.63	---
H-1	12/5/2001	150	<0.50	8.3	1.6	16	---	52	---	---	---	---	---	1.43	---	---
H-1	1/31/2002	3,200	12	<0.50	5.7	3.7	---	650	---	---	---	---	---	2.34	---	---
H-1	6/4/2002	280,000	<10	150	62	9,500	---	<100	---	---	---	---	---	2.56	---	---
H-1	7/25/2002	8,200	2.2	46	5.3	99	---	<10	---	---	---	---	---	2.83	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
H-1	11/14/2002	1,700	2.1	2.6	1.5	14	---	380	---	---	---	---	180.63	3.74	176.89	---
H-1	1/2/2003	---	1.1	<0.50	<0.50	3.6	---	---	---	---	---	---	180.63	1.45	179.18	---
H-1	1/30/2003	630	0.99	2.0	1.6	12	---	21	---	---	---	---	180.63	2.10	178.53	---
H-1	6/3/2003	55	<0.50	1.3	<0.50	2.4	---	2.6	---	---	---	---	180.63	3.38	177.25	---
H-1	8/27/2003	<50	0.55	<0.50	<0.50	1.2	---	2.8	---	---	---	---	180.63	4.10	176.53	---
H-1	11/25/2003	77 a	9.7	<0.50	<0.50	<1.0	---	21	---	---	---	---	180.63	3.72	176.91	---
H-1	2/5/2004	380	41	1.2	5.1	8.0	---	21	---	---	---	---	180.63	1.69	178.94	---
H-1	4/21/2004	640	27	0.63	2.0	2.3	---	33	---	---	---	---	180.63	2.14	178.49	---
H-1	8/12/2004	340	18	0.75	<0.50	1.7	---	43	---	---	---	---	180.63	4.78	175.85	---
H-1	11/8/2004	1,500	29	<1.0	1.7	<2.0	---	57	---	---	---	---	180.63	4.17	176.46	---
H-1	5/16/2005	150 g	<0.50	<0.50	<0.50	<1.0	---	48	---	---	---	---	180.63	4.16	176.47	---
H-1	8/16/2005	100 g	<0.50	<0.50	<0.50	<1.0	---	57	---	---	---	---	180.63	4.66	175.97	---
H-1	11/3/2005	<50.0	<0.500	<0.500	<0.500	<0.500	---	12.1	---	---	---	---	180.63	5.13	175.50	---
H-1	2/16/2006	4,230	<0.500	<0.500	37.7	80.5	---	7.12	---	---	---	---	180.63	1.87	178.76	---
H-1	5/5/2006	368	<0.500	<0.500	2.56	<0.500	---	22.2	---	---	---	---	180.63	2.21	178.42	---
H-1	8/21/2006	---	---	---	---	---	---	---	---	---	---	---	180.63	4.62	176.01	---
H-1	11/13/2006	---	---	---	---	---	---	---	---	---	---	---	180.63	3.89	176.74	---
H-1	1/30/2007	---	---	---	---	---	---	---	---	---	---	---	180.63	3.04	177.59	---
H-1	5/23/2007	330 h	7.9	0.32 i	0.48 i	0.61 i	---	74	---	---	---	---	180.63	3.38	177.25	---
H-1	8/9/2007	---	---	---	---	---	---	---	---	---	---	---	180.63	4.30	176.33	---
H-1	11/13/2007	---	---	---	---	---	---	---	---	---	---	---	180.63	1.97	178.66	---
H-1	2/13/2008	---	---	---	---	---	---	---	---	---	---	---	180.63	1.78	178.85	---
H-1	5/20/2008	230	19	<1.0	2.8	2.2	---	23	---	---	---	---	180.63	3.60	177.03	---
H-1	8/4/2008	---	---	---	---	---	---	---	---	---	---	---	180.63	3.27	177.36	---
H-1	12/2/2008	---	---	---	---	---	---	---	---	---	---	---	180.63	4.33	176.30	---
H-1	1/23/2009	---	---	---	---	---	---	---	---	---	---	---	180.63	2.03	178.60	---
H-1	5/5/2009	290	15	<1.0	7.1	4.2	---	36	---	---	---	---	180.63	2.76	177.87	---
H-1	8/7/2009	---	---	---	---	---	---	---	---	---	---	---	180.63	5.49	175.14	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE		DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
							8020 (ug/L)	8260 (ug/L)								
H-1	2/3/2010	2,700	85	1.5	130	62	---	24	---	---	---	---	180.63	2.45	178.18	---
H-1	8/31/2010	---	---	---	---	---	---	---	---	---	---	---	180.63	4.12	176.51	---
H-1	2/10/2011	1,800	51	1.3	120	65	---	36	---	---	---	---	180.63	3.10	177.53	---
T-1	5/30/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.65	---	---
T-1	8/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.69	---	---
T-1	11/3/1997	---	---	---	---	---	---	---	---	---	---	---	---	3.09	---	---
T-1	1/20/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.61	---	---
T-1	7/23/1998	---	---	---	---	---	---	---	---	---	---	---	---	2.32	---	---
T-1	2/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	1.95	---	---
T-1	9/7/1999	---	---	---	---	---	---	---	---	---	---	---	---	2.48	---	---
T-1	2/2/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	2.66	---	2.5
T-1	4/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.56	---	---
T-1	7/25/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.60	---	---
T-1	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.47	---	---
T-1	2/12/2001	---	---	---	---	---	---	---	---	---	---	---	---	1.20	---	---
T-1	6/7/2001	---	---	---	---	---	---	---	---	---	---	---	---	2.36	---	---
T-1	8/31/2001	---	---	---	---	---	---	---	---	---	---	---	---	3.45	---	---
T-1	01/09/2002 c	---	---	---	---	---	---	---	---	---	---	---	183.08	---	---	---
T-2	5/30/1997	---	---	---	---	---	---	---	---	---	---	---	---	1.81	---	---
T-2	8/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	1.89	---	---
T-2	11/3/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.25	---	---
T-2	1/20/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.55	---	---
T-2	7/23/1998	---	---	---	---	---	---	---	---	---	---	---	---	1.21	---	---
T-2	2/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	1.08	---	---
T-2	9/7/1999	---	---	---	---	---	---	---	---	---	---	---	---	0.72	---	---
T-2	2/2/2000	1,540	53.4	20.8	11.4	21.8	1,330	---	---	---	---	---	---	0.98	---	3.0

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
T-2	4/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	1.02	---	---
T-2	7/25/2000	815	17.6	10.8	1.63	3.47	133	---	---	---	---	---	---	1.80	---	0.8
T-2	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	---	1.68	---	---
T-2	2/12/2001	310	7.48	7.76	0.693	2.28	301	---	---	---	---	---	---	1.45	---	1.6
T-2	6/7/2001	---	---	---	---	---	---	---	---	---	---	---	---	1.57	---	---
T-2	8/31/2001	720	30	0.67	<0.50	2.3	---	540	---	---	---	---	---	2.69	---	0.8
T-2	12/5/2001	---	---	---	---	---	---	---	---	---	---	---	---	0.58	---	---
T-2	1/31/2002	---	---	---	---	---	---	---	---	---	---	---	---	1.32	---	---
T-2	2/4/2002	1,000	41	30	4.6	20	---	1,200	---	---	---	---	---	1.46	---	---
T-2	6/4/2002	---	---	---	---	---	---	---	---	---	---	---	---	1.50	---	---
T-2	7/25/2002	660	11	0.59	<0.50	2.6	---	97	---	---	---	---	---	1.53	---	---
T-2	11/14/2002	---	---	---	---	---	---	---	---	---	---	---	182.30	2.39	179.91	---
T-2	1/30/2003	560	11	<0.50	<0.50	0.53	---	160	---	---	---	---	182.30	1.01	181.29	---
T-2	6/3/2003	---	---	---	---	---	---	---	---	---	---	---	182.30	1.55	180.75	---
T-2	8/27/2003	180 a	1.6	<0.50	<0.50	<1.0	---	10	---	---	---	---	182.30	1.60	180.70	---
T-2	11/25/2003	---	---	---	---	---	---	---	---	---	---	---	182.30	1.64	180.66	---
T-2	2/5/2004	940	110	10	2.4	14	---	67	---	---	---	---	182.30	0.66	181.64	---
T-2	4/21/2004	---	---	---	---	---	---	---	---	---	---	---	182.30	1.50	180.80	---
T-2	8/12/2004	450	<0.50	<0.50	<0.50	<1.0	---	33	---	---	---	---	182.30	2.72	179.58	---
T-2	11/8/2004	---	---	---	---	---	---	---	---	---	---	---	182.30	1.72	180.58	---
T-3	5/30/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.31	---	---
T-3	8/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	1.57	---	---
T-3	11/3/1997	---	---	---	---	---	---	---	---	---	---	---	---	3.50	---	---
T-3	1/20/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.76	---	---
T-3	7/23/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.82	---	---
T-3	2/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	0.55	---	---
T-3	9/7/1999	---	---	---	---	---	---	---	---	---	---	---	---	2.89	---	---

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE		DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
							8020 (ug/L)	8260 (ug/L)								
T-3	2/2/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	3.02	---	2.9
T-3	4/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.81	---	---
T-3	7/25/2000	---	---	---	---	---	---	---	---	---	---	---	---	3.00	---	---
T-3	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	---	1.70	---	---
T-3	2/12/2001	---	---	---	---	---	---	---	---	---	---	---	---	2.11	---	---
T-3	6/7/2001	---	---	---	---	---	---	---	---	---	---	---	---	1.68	---	---
T-3	8/31/2001	---	---	---	---	---	---	---	---	---	---	---	---	3.14	---	---
T-3	01/09/2002 c	---	---	---	---	---	---	---	---	---	---	---	180.95	---	---	---

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

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary-butyl alcohol, analyzed by EPA Method 8260B

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

--- = Not applicable

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPPH</i> <i>(ug/L)</i>	<i>B</i> <i>(ug/L)</i>	<i>T</i> <i>(ug/L)</i>	<i>E</i> <i>(ug/L)</i>	<i>X</i> <i>(ug/L)</i>	<i>MTBE</i> <i>8020</i> <i>(ug/L)</i>	<i>MTBE</i> <i>8260</i> <i>(ug/L)</i>	<i>DIPE</i> <i>(ug/L)</i>	<i>ETBE</i> <i>(ug/L)</i>	<i>TAME</i> <i>(ug/L)</i>	<i>TBA</i> <i>(ug/L)</i>	<i>TOC</i> <i>(MSL)</i>	<i>Depth to</i> <i>Water</i> <i>(ft.)</i>	<i>GW</i> <i>Elevation</i> <i>(MSL)</i>	<i>DO</i> <i>Reading</i> <i>(ppm)</i>
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Notes:

- a = Chromatogram pattern indicated an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.
- b = This sample analyzed outside of EPA recommended hold time.
- c = Survey date only.
- d = Sampled by client; Cambria Environmental.
- e = Unable to gauge depth to water due to extraction tubing.
- f = Unable to gauge.
- g = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
- h = Analyzed by EPA Method 8015B (M).
- i = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
- Site surveyed January 9, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

APPENDIX A

BLAINE TECH SERVICES, INC. -
FIELD NOTES

WELL GAUGING DATA

Project # 110210-J01 Date 2-10-11 Client Shell

Site 5755 Broadway Oakland CA

Well ID	Time	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	Notes
S-1	1005	3					0.51	11.23	↓	
S-2	1017	4				2.51	9.53			
S-3	1008	4				1.91	9.54			
S-4 H-4	1013	4				3.10	12.01			

SHELL WELL MONITORING DATA SHEET

BTS #: 110210-201	Site: 9899575L
Sampler: 40	Date: 2-10-11
Well I.D.: S-1	Well Diameter: 2 (3) 4 6 8
Total Well Depth (TD): 11.23	Depth to Water (DTW): 0.51
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 2.65	

Purge Method: Bailer Waterra Sampling Method: (Bailer)
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 (Electric Submersible) Other _____ Dedicated Tubing
 Other: _____

3.9 (Gals.) X 3 = 11.7 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1022	60.4	8.31	208.4	72	3.9	
			dewatered @	5 gallons		
1130	60.7	8.17	209.3	64	—	

Did well dewater? (Yes) No Gallons actually evacuated: 5.0

Sampling Date: 2-10-11 Sampling Time: 1130 Depth to Water: 2.02

Sample I.D.: S-1 Laboratory: (Test America) Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See col

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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 #: 110210-JA	Site: 98995756
Sampler: JU	Date: 2-10-11
Well I.D.: S-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 9.53	Depth to Water (DTW): 2.51
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.91	

Purge Method: Bailer Waterra Sampling Method: (Bailer)

Disposable Bailer Peristaltic Disposable Bailer

Positive Air Displacement Extraction Pump Extraction Port

(Electric Submersible) Other _____ Dedicated Tubing

Other: _____

4.5 (Gals.) X 3 = 13.5 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 μS)	Turbidity (NTUs)	Gals. Removed	Observations
1109	64.9	7.69	704.3	413	4.5	odor
1155	63.7	7.63	712.4	1030	—	—

Did well dewater? (Yes) No Gallons actually evacuated: 5.0

Sampling Date: 2-10-11 Sampling Time: 1155 Depth to Water: 3.24

Sample I.D.: S-2 Laboratory: (Test America) Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: see cwc

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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 #: 110210-101	Site: 98995756
Sampler: J0	Date: 2-10-11
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 09.54	Depth to Water (DTW): 1.91
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.43	

Purge Method: Bailer Disposable Bailer Positive Air Displacement <u>Electric Submersible</u>	Wattera Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
---	--	--

4.3 (Gals.) X	3	= 12.9 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
10:37	60.2	8.00	493.3	31	4.3	
						de-watered @ 5 gallons
11:45	60.7	8.10	503.4	27	—	

Did well dewater? (Yes) No Gallons actually evacuated: 5.0

Sampling Date: 2-10-11 Sampling Time: 11:45 Depth to Water: 2.14

Sample I.D.: S-3 Laboratory: Test America Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: *see col*

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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 #: 110210-501	Site: 98995256
Sampler: 26	Date: 2-10-11
Well I.D.: 4-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 12.01	Depth to Water (DTW): 3.10
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]: 4.88	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
Electric Submersible Other _____ Dedicated Tubing

$\frac{3.9 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = 11.4 \text{ Gals.}$ <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;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <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> </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
1056	63.2	7.76	585.7	726	3.9	
1057	63.1	7.62	583.2	739	7.6	
1059	63.7	7.60	577.8	744	11.4	

Did well dewater? Yes No Gallons actually evacuated: 11.4

Sampling Date: 2-10-11 Sampling Time: 1100 Depth to Water: 3.17

Sample I.D.: 4-1 Laboratory: CalScience Columbia Other Test Analy

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See 10c

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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 WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 5755 Broadway Oakland CA Date 2-10-11

Job Number 110210-J01 Technician JO Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
S-1	X	X							
S-2	X	X							
S-3	X	X							
H-1	X								Vault

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12" or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12" or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes: _____

APPENDIX B

TEST AMERICA -
LABORATORY REPORT

LABORATORY REPORT

Prepared For: Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project: 5755 Broadway, Oakland, CA -
Shell
240483
Sampled: 02/10/11
Received: 02/12/11
Issued: 03/01/11 10:42

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

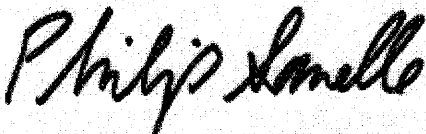
The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IUB1437-01	S-1	Water
IUB1437-02	S-2	Water
IUB1437-03	S-3	Water
IUB1437-04	H-1	Water

Reviewed By:



TestAmerica Irvine

Philip Sanelle
Project Manager

Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 5755 Broadway, Oakland, CA - Shell
 240483
 Report Number: IUB1437

Sampled: 02/10/11
 Received: 02/12/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUB1437-01 (S-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B2631	50	ND	1	2/22/2011	2/22/2011	
Surrogate: Dibromofluoromethane (80-120%)				108 %				
Surrogate: Toluene-d8 (80-120%)				102 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				95 %				
Sample ID: IUB1437-02 (S-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B2631	200	3600	4	2/22/2011	2/22/2011	
Surrogate: Dibromofluoromethane (80-120%)				106 %				
Surrogate: Toluene-d8 (80-120%)				103 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				99 %				
Sample ID: IUB1437-03 (S-3 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B2631	50	ND	1	2/22/2011	2/22/2011	
Surrogate: Dibromofluoromethane (80-120%)				107 %				
Surrogate: Toluene-d8 (80-120%)				102 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				96 %				
Sample ID: IUB1437-04 (H-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B2631	100	1800	2	2/22/2011	2/22/2011	
Surrogate: Dibromofluoromethane (80-120%)				105 %				
Surrogate: Toluene-d8 (80-120%)				101 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				97 %				

TestAmerica Irvine

Philip Sanelle
 Project Manager

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Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 5755 Broadway, Oakland, CA - Shell
 240483
 Report Number: IUB1437

Sampled: 02/10/11
 Received: 02/12/11

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUB1437-01 (S-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11B2631	0.50	ND	1	2/22/2011	2/22/2011	
Ethylbenzene	EPA 8260B	11B2631	0.50	ND	1	2/22/2011	2/22/2011	
Toluene	EPA 8260B	11B2631	0.50	ND	1	2/22/2011	2/22/2011	
Xylenes, Total	EPA 8260B	11B2631	1.0	ND	1	2/22/2011	2/22/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B2631	1.0	1.9	1	2/22/2011	2/22/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				95 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				108 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %				
Sample ID: IUB1437-02 (S-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11B2631	2.0	220	4	2/22/2011	2/22/2011	
Ethylbenzene	EPA 8260B	11B2631	2.0	13	4	2/22/2011	2/22/2011	
Toluene	EPA 8260B	11B2631	2.0	ND	4	2/22/2011	2/22/2011	
Xylenes, Total	EPA 8260B	11B2631	4.0	ND	4	2/22/2011	2/22/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B2631	4.0	330	4	2/22/2011	2/22/2011	
tert-Butanol (TBA)	EPA 8260B	11B2631	40	450	4	2/22/2011	2/22/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				99 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				106 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				103 %				
Sample ID: IUB1437-03 (S-3 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11B2631	0.50	ND	1	2/22/2011	2/22/2011	
Ethylbenzene	EPA 8260B	11B2631	0.50	ND	1	2/22/2011	2/22/2011	
Toluene	EPA 8260B	11B2631	0.50	ND	1	2/22/2011	2/22/2011	
Xylenes, Total	EPA 8260B	11B2631	1.0	ND	1	2/22/2011	2/22/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B2631	1.0	ND	1	2/22/2011	2/22/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				96 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				107 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %				

TestAmerica Irvine

Philip Sanelle
 Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 5755 Broadway, Oakland, CA - Shell
240483
Report Number: IUB1437

Sampled: 02/10/11
Received: 02/12/11

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUB1437-04 (H-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11B2631	1.0	51	2	2/22/2011	2/22/2011	
Ethylbenzene	EPA 8260B	11B2631	1.0	120	2	2/22/2011	2/22/2011	
Toluene	EPA 8260B	11B2631	1.0	1.3	2	2/22/2011	2/22/2011	
Xylenes, Total	EPA 8260B	11B2631	2.0	65	2	2/22/2011	2/22/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B2631	2.0	36	2	2/22/2011	2/22/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				97 %				
Surrogate: Dibromofluoromethane (80-120%)				105 %				
Surrogate: Toluene-d8 (80-120%)				101 %				

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Philip Sanelle
Project Manager

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IUB1437 <Page 4 of 9>

Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 5755 Broadway, Oakland, CA - Shell
 240483
 Report Number: IUB1437

Sampled: 02/10/11
 Received: 02/12/11

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B2631 Extracted: 02/22/11										
Blank Analyzed: 02/22/2011 (11B2631-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	26.3		ug/l	25.0		105	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	24.0		ug/l	25.0		96	80-120			
LCS Analyzed: 02/22/2011 (11B2631-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	406	50	ug/l	500		81	55-130			
Surrogate: Dibromofluoromethane	25.0		ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	24.9		ug/l	25.0		100	80-120			
Matrix Spike Analyzed: 02/22/2011 (11B2631-MS1)					Source: IUB1508-01					
Volatile Fuel Hydrocarbons (C4-C12)	1110	50	ug/l	1720	ND	65	50-145			
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	25.9		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	24.8		ug/l	25.0		99	80-120			
Matrix Spike Dup Analyzed: 02/22/2011 (11B2631-MSD1)					Source: IUB1508-01					
Volatile Fuel Hydrocarbons (C4-C12)	1060	50	ug/l	1720	ND	61	50-145	5	20	
Surrogate: Dibromofluoromethane	26.1		ug/l	25.0		104	80-120			
Surrogate: Toluene-d8	25.6		ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	25.0		ug/l	25.0		100	80-120			

TestAmerica Irvine

Philip Sanelle
 Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 5755 Broadway, Oakland, CA - Shell
240483
Report Number: IUB1437

Sampled: 02/10/11
Received: 02/12/11

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: 11B2631 Extracted: 02/22/11									
Blank Analyzed: 02/22/2011 (11B2631-BLK1)									
Benzene	ND	0.50	ug/l						
Ethylbenzene	ND	0.50	ug/l						
Toluene	ND	0.50	ug/l						
m,p-Xylenes	ND	1.0	ug/l						
o-Xylene	ND	0.50	ug/l						
Xylenes, Total	ND	1.0	ug/l						
Di-isopropyl Ether (DIPE)	ND	1.0	ug/l						
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/l						
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l						
tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/l						
tert-Butanol (TBA)	ND	10	ug/l						
Surrogate: 4-Bromofluorobenzene	24.0		ug/l	25.0		96	80-120		
Surrogate: Dibromofluoromethane	26.3		ug/l	25.0		105	80-120		
Surrogate: Toluene-d8	25.4		ug/l	25.0		101	80-120		
LCS Analyzed: 02/22/2011 (11B2631-BS1)									
Benzene	20.4	0.50	ug/l	25.0		81	70-120		
Ethylbenzene	22.5	0.50	ug/l	25.0		90	75-125		
Toluene	21.3	0.50	ug/l	25.0		85	70-120		
m,p-Xylenes	42.2	1.0	ug/l	50.0		84	75-125		
o-Xylene	21.8	0.50	ug/l	25.0		87	75-125		
Xylenes, Total	64.0	1.0	ug/l	75.0		85	70-125		
Di-isopropyl Ether (DIPE)	18.7	1.0	ug/l	25.0		75	60-135		
Ethyl tert-Butyl Ether (ETBE)	20.1	1.0	ug/l	25.0		80	65-135		
Methyl-tert-butyl Ether (MTBE)	20.8	1.0	ug/l	25.0		83	60-135		
tert-Amyl Methyl Ether (TAME)	21.2	1.0	ug/l	25.0		85	60-135		
tert-Butanol (TBA)	132	10	ug/l	125		105	70-135		
Surrogate: 4-Bromofluorobenzene	24.5		ug/l	25.0		98	80-120		
Surrogate: Dibromofluoromethane	24.3		ug/l	25.0		97	80-120		
Surrogate: Toluene-d8	25.8		ug/l	25.0		103	80-120		

TestAmerica Irvine

Philip Sanelle
Project Manager

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IUB1437 <Page 6 of 9>

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 5755 Broadway, Oakland, CA - Shell
240483
Report Number: IUB1437

Sampled: 02/10/11
Received: 02/12/11

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-----------------

Batch: 11B2631 Extracted: 02/22/11

Matrix Spike Analyzed: 02/22/2011 (11B2631-MS1)

Source: IUB1508-01

Benzene	22.4	0.50	ug/l	25.0	ND	90	65-125			
Ethylbenzene	24.2	0.50	ug/l	25.0	ND	97	65-130			
Toluene	23.6	0.50	ug/l	25.0	ND	94	70-125			
m,p-Xylenes	45.6	1.0	ug/l	50.0	ND	91	65-130			
o-Xylene	23.8	0.50	ug/l	25.0	ND	95	65-125			
Xylenes, Total	69.4	1.0	ug/l	75.0	ND	93	60-130			
Di-isopropyl Ether (DIPE)	21.7	1.0	ug/l	25.0	ND	87	60-140			
Ethyl tert-Butyl Ether (ETBE)	24.0	1.0	ug/l	25.0	ND	96	60-135			
Methyl-tert-butyl Ether (MTBE)	24.6	1.0	ug/l	25.0	ND	98	55-145			
tert-Amyl Methyl Ether (TAME)	25.5	1.0	ug/l	25.0	ND	102	60-140			
tert-Butanol (TBA)	158	10	ug/l	125	9.89	118	65-140			
Surrogate: 4-Bromofluorobenzene	24.8		ug/l	25.0		99	80-120			
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	25.9		ug/l	25.0		104	80-120			

Matrix Spike Dup Analyzed: 02/22/2011 (11B2631-MSD1)

Source: IUB1508-01

Benzene	21.0	0.50	ug/l	25.0	ND	84	65-125	7	20	
Ethylbenzene	22.9	0.50	ug/l	25.0	ND	91	65-130	6	20	
Toluene	21.9	0.50	ug/l	25.0	ND	88	70-125	7	20	
m,p-Xylenes	43.1	1.0	ug/l	50.0	ND	86	65-130	6	25	
o-Xylene	22.5	0.50	ug/l	25.0	ND	90	65-125	6	20	
Xylenes, Total	65.6	1.0	ug/l	75.0	ND	87	60-130	6	20	
Di-isopropyl Ether (DIPE)	21.0	1.0	ug/l	25.0	ND	84	60-140	3	25	
Ethyl tert-Butyl Ether (ETBE)	23.1	1.0	ug/l	25.0	ND	92	60-135	4	25	
Methyl-tert-butyl Ether (MTBE)	24.1	1.0	ug/l	25.0	ND	96	55-145	2	25	
tert-Amyl Methyl Ether (TAME)	24.7	1.0	ug/l	25.0	ND	99	60-140	3	30	
tert-Butanol (TBA)	150	10	ug/l	125	9.89	112	65-140	5	25	
Surrogate: 4-Bromofluorobenzene	25.0		ug/l	25.0		100	80-120			
Surrogate: Dibromofluoromethane	26.1		ug/l	25.0		104	80-120			
Surrogate: Toluene-d8	25.6		ug/l	25.0		102	80-120			

TestAmerica Irvine

Philip Sanelle
Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 5755 Broadway, Oakland, CA - Shell
240483
Report Number: IUB1437

Sampled: 02/10/11
Received: 02/12/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.
The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C4-C12):

Volatile Fuel Hydrocarbons (C4-C12) are quantitated against a gasoline standard. Quantitation begins immediately before TBA-d9.

TestAmerica Irvine

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Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 8260B	Water	X	X
TPH by GC/MS	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Philip Sanelle
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