CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: June 15, 2011

REFERENCE NO.: 241501

PROJECT NAME: 461 8th Street, Oakland

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RECEIVED
9:20 am, Jun 16, 2011
Alameda County
Environmental Health

Please find enclosed:
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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Second Quarter 2011

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

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

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Leroy Griffin, Fire Prevention Bureau, 250 Frank Ogawa Plaza, 3rd Floor, Suite 3341, Oakland, CA 94612
A.F. Evans Company, c/o Anye Spivey, 1000 Broadway, Suite 300, Oakland, CA 94507
Leah Goldberg, Meyers Nave, 555 12th Street, Suite 1500, Oakland, CA 94607
Grover Buhr, Treadwell & Rollo (electronic copy)

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

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

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94205-6577

Re: Former Shell Service Station
461 8th Street
Oakland, California
SAP Code 129453
Incident No. 97093399
ACEH Case No. RO0000343

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.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Denis L. Brown
Senior Program Manager

GROUNDWATER MONITORING REPORT – SECOND QUARTER 2011

FORMER SHELL SERVICE STATION
461 8TH STREET
OAKLAND, CALIFORNIA

SAP CODE	129453
INCIDENT NO.	97093399
AGENCY NO.	RO0000343

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

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JUNE 15, 2011
REF. NO. 241501 (25)
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TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF TABLES
(Following Text)

LIST OF APPENDICES

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	461 8th Street, Oakland
Site Use	Parking lot
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000343
Shell SAP Code:	129453
Shell Incident No.	97093399

Date of most recent agency correspondence was May 2, 2011.

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 modified 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.

As requested in Alameda County Environmental Health's (ACEH's) May 3, 2010 letter, CRA submitted a report detailing the water sampling from Oakland Police Department and San Francisco Bay Area Rapid Transit sumps on April 13, 2011.

ACEH's May 2, 2011 letter requested sulfate analysis for water samples collected from monitoring wells S-5, S-6, S-13, S-20, S-21A, and S-22A during the second quarter of

2011. Since the second quarter 2011 sampling event was conducted on April 25, 2011, we will analyze these samples from the third quarter 2011 sampling event for sulfate.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Variable
Hydraulic Gradient	Variable
Depth to Water	13.98 to 22.53 feet below top of well casing

2.3 PROPOSED ACTIVITIES

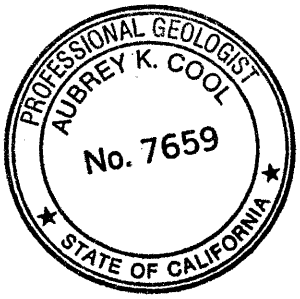
Blaine will gauge and sample wells according to the modified monitoring program for this site, and CRA will issue groundwater monitoring reports quarterly following the sampling events. As noted above, water samples collected from monitoring wells S-5, S-6, S-13, S-20, S-21A, and S-22A during the third quarter 2011 sampling event will be analyzed for sulfate, and CRA will include a table showing results in that report.

As requested in ACEH's May 2, 2011 letter, CRA will submit a soil vapor sampling work plan by July 12, 2011.

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

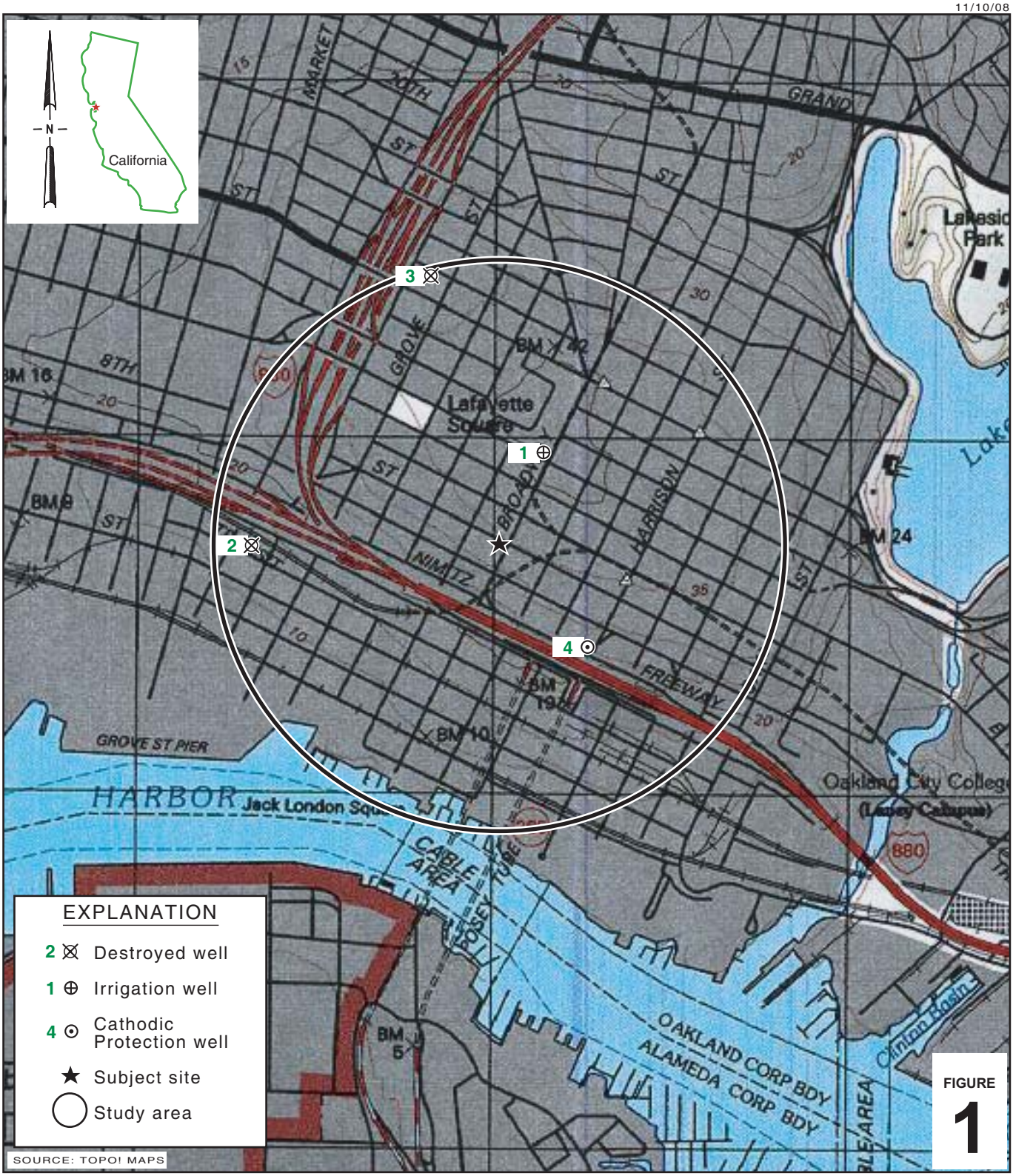
Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG



FIGURES

11/10/08



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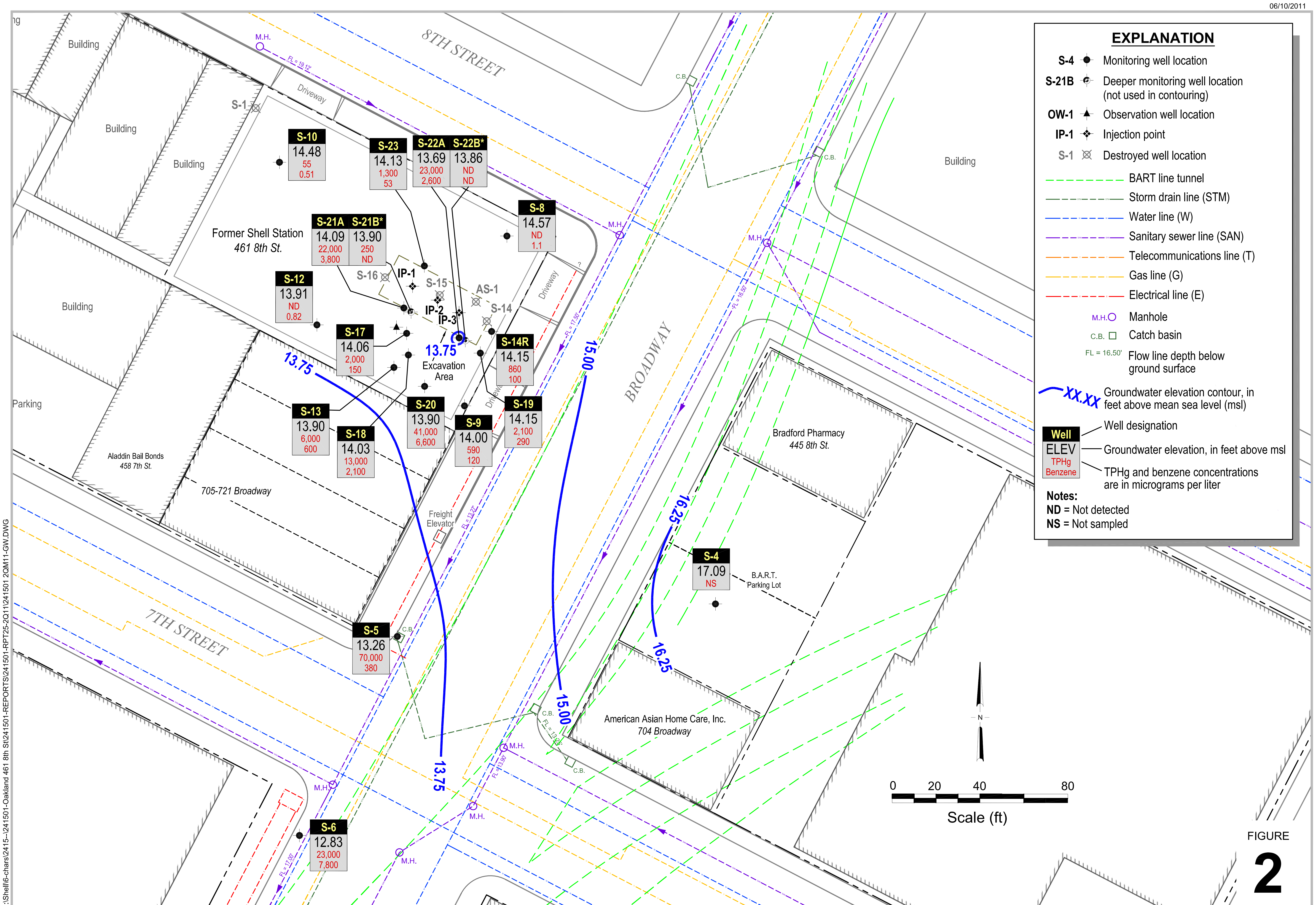
0 1/8 1/4 1/2 1

SCALE (MILES)

Former Shell Service Station
461 8th Street
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map


06/10/2011
EXPLANATION
S-4 Monitoring well location
S-21B Deeper monitoring well location (not used in contouring)
OW-1 Observation well location
IP-1 Injection point
S-1 Destroyed well location
BART line tunnel
Storm drain line (STM)
Water line (W)
Sanitary sewer line (SAN)
Telecommunications line (T)
Gas line (G)
Electrical line (E)
M.H. Manhole
C.B. Catch basin
FL = 16.50' Flow line depth below ground surface
XX.XX Groundwater elevation contour, in feet above mean sea level (msl)
Well Well designation
ELEV Groundwater elevation, in feet above msl
TPHg Benzene TPHg and benzene concentrations are in micrograms per liter
Notes:
ND = Not detected
NS = Not sampled
8TH STREET
7TH STREET
BROADWAY
Former Shell Station
461 8th St.
Excavation Area
Building
Parking
Aladdin Bail Bonds
458 7th St.
705-721 Broadway
Bradford Pharmacy
445 8th St.
B.A.R.T. Parking Lot
American Asian Home Care, Inc.
704 Broadway
Driveway
Freight Elevator
S-10 14.48 55 0.51
S-23 14.13 1,300 53
S-22A 13.69 23,000 2,600
S-22B* 13.86 ND ND
S-8 14.57 ND 1.1
S-21A 14.09 22,000 3,800
S-21B* 13.90 250 ND
S-12 13.91 ND 0.82
S-17 14.06 2,000 150
S-14R 14.15 860 100
S-13 13.90 6,000 600
S-18 14.03 13,000 2,100
S-20 13.90 41,000 6,600
S-9 14.00 590 120
S-19 14.15 2,100 290
S-4 17.09 NS
S-5 13.26 70,000 380
S-6 12.83 23,000 7,800
S-1
S-16
S-15
S-14
IP-1
IP-2
IP-3
AS-1
13.75
15.00
16.25
Scale (ft)
0 20 40 80
N
I:\Shell6-chars\2415--\241501-Oakland 461 8th St\241501-REPORTS\241501-RPT25-2Q11\241501 2QM11-GW.DWG

Groundwater Contour and Chemical Concentration Map

April 25, 2011

CONESTOGA-ROVERS & ASSOCIATES

FIGURE **2**

Former Shell Service Station

461 8th Street

Oakland, California

TABLE

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-4	10/26/1988	130	3.8	13	4	30	—	—	—	—	—	—	—	—	93.51	—	—	—	—	—
S-4	02/14/1989	<50	0.50	<1.0	<1.0	3.0	—	—	—	—	—	—	—	—	93.51	12.82	80.69	—	—	—
S-4	05/01/1989	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	16.48	77.03	—	—	—
S-4	07/27/1989	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	15.84	77.67	—	—	—
S-4	10/05/1989	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	15.98	77.53	—	—	—
S-4	01/09/1990	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	15.86	77.65	—	—	—
S-4	04/30/1990	<50	<0.50	<0.50	<0.50	<1.0	—	—	—	—	—	—	—	—	93.51	14.48	79.03	—	—	—
S-4	07/31/1990	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	—	—	—	—	—
S-4	10/30/1990	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	—	—	—	—	—
S-4	05/06/1991	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	15.23	78.28	—	—	—
S-4	06/27/1991	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	—	—	—	93.51	13.54	79.97	—	—	—
S-4	09/24/1991	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	15.85	77.66	—	—	—
S-4	11/07/1991	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	15.60	77.91	—	—	—
S-4	02/13/1992	<50	<0.50	<0.50	<0.50	3.0	—	—	—	—	—	—	—	—	93.51	14.27	79.24	—	—	—
S-4	05/11/1992	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	93.51	—	—	—	—	—
S-4	12/03/1992	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	93.51	—	—	—	—	—
S-4	05/13/1993	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	93.51	14.81	78.70	—	—	—
S-4	07/22/1993	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	93.51	14.42	79.09	—	—	—
S-4	10/20/1993	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	93.51	—	—	—	—	—
S-4	01/25/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	93.51	14.60	78.91	—	—	—
S-4	04/25/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	93.51	14.39	79.12	—	—	—
S-4	07/21/1994	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	—	—	—	93.51	22.29	71.22	—	—	—
S-4	10/24/1994	<500	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	—	—	—	93.51	22.72	70.79	—	—	—
S-4	12/22/1994	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	—	—	—	25.77	22.25	3.52	—	—	—
S-4	04/20/1995	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	—	—	—	25.77	21.16	4.61	—	—	—
S-4	10/04/1995	<50	1.2	0.70	<0.50	<0.50	—	—	—	—	—	—	—	—	25.77	22.25	3.52	—	—	—
S-4	01/03/1996	<50	0.60	<0.50	<0.50	1.7	—	—	—	—	—	—	—	—	25.77	23.28	2.49	—	—	—
S-4	04/11/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	25.77	21.58	4.19	—	—	—
S-4	07/11/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	25.77	21.60	4.17	—	—	—
S-4	10/02/1996	<50	<0.50	<0.50	<0.50	<0.50	2.6	—	—	—	—	—	—	—	25.77	22.46	3.31	—	—	—
S-4	01/22/1997	<50	0.73	<0.50	<0.50	0.63	<2.5	—	—	—	—	—	—	—	25.77	20.06	5.71	—	—	—
S-4	07/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	25.77	22.10	3.67	—	—	—
S-4	01/22/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	25.77	20.50	5.27	—	—	—
S-4	07/08/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	25.77	20.86	4.91	—	—	—
S-4	10/26/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	25.77	21.41	4.36	—	—	—
S-4	01/28/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	25.77	22.34	3.43	—	—	—
S-4	04/23/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	25.77	21.43	4.34	—	—	—
S-4	07/29/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	25.77	21.45	4.32	—	—	—
S-4	11/01/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	25.77	22.08	3.69	—	—	—
S-4	01/07/2000	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	25.77	22.29	3.48	—	—	—
S-4	04/11/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	25.77	21.11	4.66	—	—	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-4	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	25.77	21.19	4.58	—	—	—
S-4	10/12/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	25.77	22.22	3.55	—	—	—
S-4	01/09/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	25.77	22.17	3.60	—	—	—
S-4	04/06/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	25.77	21.50	4.27	—	—	—
S-4	07/25/2001	<50	2.0	0.52	<0.50	1.0	—	<5.0	—	—	—	—	—	—	25.77	21.50	4.27	—	—	—
S-4	11/01/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	25.77	21.95	3.82	—	—	—
S-4	01/17/2002 d	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	25.77	21.13	4.64	—	—	—
S-4	05/08/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	25.77	21.35	4.42	—	—	—
S-4	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	34.41	21.19	13.22	—	—	—
S-4	10/15/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.42	12.99	—	—	—
S-4	01/02/2003	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	34.41	20.75	13.66	—	—	—
S-4	04/15/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.08	13.33	—	—	—
S-4	07/14/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	19.93	14.48	—	—	—
S-4	10/20/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	19.56	14.85	—	—	—
S-4	01/22/2004	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	34.41	19.12	15.29	—	—	—
S-4	04/19/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	19.15	15.26	—	—	—
S-4	07/13/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	20.48	13.93	—	—	—
S-4	10/28/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.00	13.41	—	—	—
S-4	01/17/2005	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	34.41	20.17	14.24	—	—	—
S-4	04/14/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	19.82	14.59	—	—	—
S-4	07/28/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	20.71	13.70	—	—	—
S-4	10/05/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	20.85	13.56	—	—	—
S-4	02/09/2006	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	—	—	—	—	—	—	34.41	19.47	14.94	—	—	—
S-4	05/15/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	19.52	14.89	—	—	—
S-4	08/23/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	20.75	13.66	—	—	—
S-4	11/15/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	20.03	14.38	—	—	—
S-4	01/30/2007	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	34.41	21.30	13.11	—	—	—
S-4	05/29/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.15	13.26	—	—	—
S-4	08/15/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.38	13.03	—	—	—
S-4	11/28/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.55	12.86	—	—	—
S-4	02/08/2008	64 h	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	34.41	22.75	11.66	—	—	—
S-4	05/08/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	22.18	12.23	—	—	—
S-4	08/14/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.77	12.64	—	—	—
S-4	11/11/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	20.68	13.73	—	—	—
S-4	01/05/2009	250	1.8	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	34.41	20.92	13.49	—	—	—
S-4	04/09/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.10	13.31	—	—	—
S-4	07/23/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.76	12.65	—	—	—
S-4	10/01/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	22.10	12.31	—	—	—
S-4	01/28/2010	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	34.41	21.75	12.66	—	—	—
S-4	05/20/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.44	12.97	—	—	—
S-4	08/31/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	21.72	12.69	—	—	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-4	12/29/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	34.41	20.91	13.50	—	—	—
S-4	02/01/2011	<50	<0.50	<0.50	<0.50	1.1	—	—	—	—	—	—	—	—	34.41	21.19	13.22	—	1.84	157
S-4	**04/25/2011**	—	—	—	—	—	—	—	—	—	—	—	—	—	**34.41**	**17.32**	**17.09**	—	—	—
S-5	04/16/1987	130000	15000	16000	—	14000 a	—	—	—	—	—	—	—	—	99.36	—	—	—	—	—
S-5	10/26/1988	110000	20000	25000	2300	10000	—	—	—	—	—	—	—	—	99.36	—	—	—	—	—
S-5	02/14/1989	94000	16000	21000	1800	10000	—	—	—	—	—	—	—	—	99.36	19.87	79.49	—	—	—
S-5	05/01/1989	120000	29000	35000	3100	15000	—	—	—	—	—	—	—	—	99.36	21.23	78.13	—	—	—
S-5	07/27/1989	110000	20000	29000	2400	14000	—	—	—	—	—	—	—	—	99.36	20.41	78.95	—	—	—
S-5	10/05/1989	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	20.43	78.94	0.01	—	—
S-5	01/09/1990	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	21.16	78.21	0.01	—	—
S-5	04/30/1990	100000	13000	22000	2100	11000	—	—	—	—	—	—	—	—	99.36	20.96	78.40	—	—	—
S-5	07/31/1990	53000	8300	14000	1200	7400	—	—	—	—	—	—	—	—	99.36	20.88	78.48	—	—	—
S-5	10/30/1990	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	21.96	77.42	0.03	—	—
S-5	05/06/1991	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	23.00	76.46	0.13	—	—
S-5	06/27/1991	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	20.53	78.85	0.03	—	—
S-5	09/24/1991	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	21.40	78.01	0.06	—	—
S-5	11/07/1991	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	21.33	78.23	0.25	—	—
S-5	02/13/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	22.52	77.09	0.31	—	—
S-5	05/11/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	22.46	77.36	0.58	—	—
S-5	12/03/1992	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	99.36	—	—	—	—	—
S-5	05/13/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	22.22	77.36	0.27	—	—
S-5	07/22/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	21.68	77.88	0.25	—	—
S-5	10/20/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	20.51	79.03	0.23	—	—
S-5	01/25/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	21.93	77.57	0.18	—	—
S-5	04/25/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	21.97	77.67	0.35	—	—
S-5	05/26/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	20.84	78.80	0.35	—	—
S-5	06/10/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	21.01	78.61	0.32	—	—
S-5	07/21/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	22.18	77.56	0.47	—	—
S-5	08/25/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	22.01	77.70	0.44	—	—
S-5	09/22/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	22.00	77.48	0.15	—	—
S-5	10/24/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	99.36	22.28	77.53	0.56	—	—
S-5	12/22/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	22.88	0.85	0.99	—	—
S-5	04/20/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	21.66	1.54	0.33	—	—
S-5	10/04/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	22.18	0.76	—	—	—
S-5	01/03/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	22.80	0.80	0.83	—	—
S-5	04/11/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	21.15	2.33	0.67	—	—
S-5	07/11/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	22.62	1.04	0.90	—	—
S-5	10/02/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	23.07	0.38	0.64	—	—
S-5	01/22/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	20.83	2.24	0.16	—	—
S-5	07/21/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	21.16	1.82	0.05	—	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-5	01/22/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	20.04	2.93	0.04	—	—
S-5	07/08/1998	220	14	40	5.8	34	3.3	—	—	—	—	—	—	—	22.94	18.61	4.33	—	—	—
S-5	10/26/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	17.31	5.63	—	—	—
S-5	01/28/1999	51000	13000	1200	1200	2400	2400	—	—	—	—	—	—	—	22.94	20.11	2.83	—	—	—
S-5	04/23/1999	65600	2540	7300	1790	9840	<1000	—	—	—	—	—	—	—	22.94	19.21	3.73	—	—	—
S-5	07/29/1999	61400	3320	6980	1520	7700	<1000	—	—	—	—	—	—	—	22.94	14.77	8.17	—	—	—
S-5	11/01/1999	48200	2700	5740	1290	7850	<500	<40.0	—	—	—	—	—	—	22.94	15.56	7.38	—	—	—
S-5	01/07/2000	39000	3900	8500	790	8300	1500	—	—	—	—	—	—	—	22.94	15.82	7.12	—	—	—
S-5	04/11/2000	29300	1680	5060	1130	6220	<250	—	—	—	—	—	—	—	22.94	18.19	4.75	—	—	—
S-5	07/19/2000	6420	2110	207	252	681	355	253 b	—	—	—	—	—	—	22.94	19.01	3.93	—	—	—
S-5	10/12/2000	41500	2940	4940	1520	7770	<250	<66.7	—	—	—	—	—	—	22.94	19.62	3.32	—	—	—
S-5	01/09/2001	142000	7030	9550	2340	12600	779	—	—	—	—	—	—	—	22.94	19.94	3.00	—	—	—
S-5	04/06/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	22.94	—	—	—	—	—
S-5	04/13/2001	59800	4810	10800	1950	10100	842	<10.0	—	—	—	—	—	—	22.94	14.72	8.22	—	—	—
S-5	07/25/2001	71000	2900	6800	1700	9100	—	<250	—	—	—	—	—	—	22.94	14.91	8.03	—	—	—
S-5	08/13/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	22.94	19.43	3.51	—	—	—
S-5	11/01/2001	Unable to locate		—	—	—	—	—	—	—	—	—	—	—	22.94	—	—	—	—	—
S-5	01/17/2002 d	58000	460	3300	1900	8400	—	<200	—	—	—	—	—	—	c	14.27	—	—	—	—
S-5	05/08/2002 d	60000	650	2700	1800	8800	—	<100	—	—	—	—	—	—	22.94	18.40	4.54	—	—	—
S-5	07/18/2002	53000	240	1200	1500	6400	—	<100	—	—	—	—	—	—	27.36	14.25	13.11	—	—	—
S-5	10/15/2002	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	27.36	—	—	—	—	—
S-5	10/17/2002	42000	420	1100	1200	5500	—	<10	—	—	—	—	—	—	27.36	14.90	12.46	—	—	—
S-5	01/02/2003	26000	680	1500	780	3800	—	<5.0	—	—	—	—	—	—	27.36	14.72	12.64	—	—	—
S-5	04/15/2003	3600	29	38	65	370	—	<5.0	—	—	—	—	—	—	e	14.45	—	—	—	—
S-5	07/14/2003	21000	210	460	650	2900	—	<10	—	—	—	—	—	—	e	14.10	—	—	—	—
S-5	10/20/2003	37000	390	590	870	3500	—	<13	—	—	—	—	—	—	e	14.63	—	—	—	—
S-5	01/22/2004	29000	200	210	710	2400	—	<13	—	—	—	—	—	—	e	14.08	—	—	—	—
S-5	04/19/2004	25000	490	460	750	2400	—	19	—	—	—	—	—	—	e	13.43	—	—	—	—
S-5	07/13/2004	28000	300	280	690	2400	—	<13	—	—	—	—	—	—	e	14.88	—	—	—	—
S-5	08/14/2008	31000	1700	1600	1400	3350	—	<10	—	—	—	—	<5.0	<10	e	16.65	—	—	—	—
S-5	11/11/2008 k	37000	2500	1300	2000	3490	—	<50	—	—	—	—	<25	<50	e	16.81	—	—	—	—
S-5	11/11/2008 l	40000	2300	1400	1900	3630	—	<50	—	—	—	—	<25	<50	e	16.81	—	—	—	—
S-5	01/05/2009	57000	2300	1400	1500	2900	—	<10	—	—	—	—	<5.0	<10	e	16.71	—	—	—	—
S-5	04/09/2009	52000	2100	3500	1900	5400	—	<20	—	—	—	—	<10	<20	e	16.31	—	—	0.3	163
S-5	07/23/2009	37000	1800	1900	1400	3800	—	—	—	—	—	—	—	—	e	16.62	—	—	1.48	-84
S-5	10/01/2009	36000	1800	1900	1400	3700	—	—	—	—	—	—	—	—	27.24	16.35	10.89	—	0.86	-52
S-5	01/28/2010	35000	1200	1900	1500	3600	—	—	—	—	—	—	—	—	27.24	16.35	10.89	—	—	—
S-5	05/20/2010	36000	1600	2500	1700	4500	—	—	—	—	—	—	—	—	27.24	16.50	10.74	—	1.22	227
S-5	08/31/2010	32000	1300	1100	1600	3400	—	—	—	—	—	—	—	—	27.24	16.95	10.29	—	0.58	-102
S-5	12/29/2010	26000	970	1500	1500	3200	—	—	—	—	—	—	—	—	27.24	16.25	10.99	—	1.18	233
S-5	02/01/2011	27000	1100	1500	1400	3100	—	—	—	—	—	—	—	—	27.24	15.38	11.86	—	1.65	-83

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-5	**04/25/2011**	**70000**	**380**	**440**	**720**	**1200**	—	—	—	—	—	—	—	—	**27.24**	**13.98**	**13.26**	—	**0.95**	**-109**
S-6	04/16/1987	81000	16000	9000	—	6400 a	—	—	—	—	—	—	—	—	100.58	—	—	—	—	—
S-6	10/26/1988	110000	29000	18000	2500	8200	—	—	—	—	—	—	—	—	100.58	—	—	—	—	—
S-6	02/14/1989	54000	18000	4500	1400	4000	—	—	—	—	—	—	—	—	100.58	20.87	79.71	—	—	—
S-6	05/01/1989	93000	43000	9900	3000	8000	—	—	—	—	—	—	—	—	100.58	20.49	80.09	—	—	—
S-6	07/27/1989	52000	20000	3200	1700	5500	—	—	—	—	—	—	—	—	100.58	21.01	79.57	—	—	—
S-6	10/05/1989	55000	20000	2900	1600	5500	—	—	—	—	—	—	—	—	100.58	21.24	79.34	—	—	—
S-6	01/09/1990	76000	35000	9100	2300	8600	—	—	—	—	—	—	—	—	100.58	22.62	77.96	SHEEN	—	—
S-6	04/30/1990	39000	13000	2300	900	2800	—	—	—	—	—	—	—	—	100.58	22.10	78.48	—	—	—
S-6	07/31/1990	48000	20000	4600	1500	4900	—	—	—	—	—	—	—	—	100.58	22.00	78.58	—	—	—
S-6	10/30/1990	27000	7400	900	600	1400	—	—	—	—	—	—	—	—	100.58	22.14	78.44	—	—	—
S-6	05/06/1991	35000	3900	2700	2300	3500	—	—	—	—	—	—	—	—	100.58	22.40	78.18	—	—	—
S-6	06/27/1991	51000	19000	5600	1700	6300	—	—	—	—	—	—	—	—	100.58	21.21	79.37	—	—	—
S-6	09/24/1991	42000	14000	4300	1200	4000	—	—	—	—	—	—	—	—	100.58	22.26	78.32	—	—	—
S-6	11/07/1991	39000	11000	2000	800	2300	—	—	—	—	—	—	—	—	100.58	22.35	78.23	—	—	—
S-6	02/13/1992	64000	21000	6200	1600	5100	—	—	—	—	—	—	—	—	100.58	22.28	78.30	—	—	—
S-6	05/11/1992	57000	22000	7600	2200	7700	—	—	—	—	—	—	—	—	100.58	22.10	78.48	—	—	—
S-6	12/03/1992	110000	26000	9400	2100	8700	—	—	—	—	—	—	—	—	100.58	22.14	78.44	—	—	—
S-6	05/13/1993	58000	21000	6800	2500	9800	—	—	—	—	—	—	—	—	100.58	22.16	78.42	—	—	—
S-6	07/22/1993	70000	31000	14000	3000	13000	—	—	—	—	—	—	—	—	100.58	21.64	78.94	—	—	—
S-6	10/20/1993	48000	28000	9800	3200	12000	—	—	—	—	—	—	—	—	100.58	21.62	78.96	—	—	—
S-6	01/25/1994	70000	23000	7500	2500	8000	—	—	—	—	—	—	—	—	100.58	21.80	78.78	—	—	—
S-6	04/25/1994	61000	16000	4000	1800	5100	—	—	—	—	—	—	—	—	100.58	21.68	78.90	—	—	—
S-6	07/21/1994	44000	8200	3600	1400	3900	—	—	—	—	—	—	—	—	100.58	21.78	78.80	—	—	—
S-6 (D)	07/21/1994	32000	7800	3400	1300	3700	—	—	—	—	—	—	—	—	100.58	—	—	—	—	—
S-6	10/24/1994	2936	1184	440.6	163.4	648.4	—	—	—	—	—	—	—	—	100.58	22.06	78.52	—	—	—
S-6 (D)	10/24/1994	2968	770.8	325.3	144.1	622	—	—	—	—	—	—	—	—	22.08*	—	—	—	—	—
S-6	12/22/1994	32000	7000	2900	790	2400	—	—	—	—	—	—	—	—	22.08	21.91	0.17	—	—	—
S-6 (D)	12/22/1994	32000	8000	3800	1100	3400	—	—	—	—	—	—	—	—	22.08	—	—	—	—	—
S-6	04/20/1995	56000	15000	3800	1900	4900	—	—	—	—	—	—	—	—	22.08	21.38	0.70	—	—	—
S-6 (D)	04/20/1995	49000	13000	3500	1800	4700	—	—	—	—	—	—	—	—	22.08	—	—	—	—	—
S-6	10/04/1995	49000	8400	4700	1800	4800	—	—	—	—	—	—	—	—	22.08	21.80	0.28	—	—	—
S-6 (D)	10/04/1995	41000	8400	4100	1400	4400	—	—	—	—	—	—	—	—	22.08	—	—	—	—	—
S-6	01/03/1996	52000	9100	7100	1800	5800	—	—	—	—	—	—	—	—	22.08	21.70	0.38	—	—	—
S-6	04/11/1996	59000	11000	7100	2100	6400	<500	—	—	—	—	—	—	—	22.08	21.62	0.46	—	—	—
S-6 (D)	04/11/1996	59000	11000	6800	1900	6400	<500	—	—	—	—	—	—	—	22.08	—	—	—	—	—
S-6	07/11/1996	72000	18000	6600	2500	8400	<1000	—	—	—	—	—	—	—	22.08	21.65	0.43	—	—	—
S-6	10/02/1996	57000	11000	6500	1500	5100	<500	—	—	—	—	—	—	—	22.08	21.80	0.28	—	—	—
S-6	01/22/1997	67000	15000	5000	1800	5400	<1000	—	—	—	—	—	—	—	22.08	19.95	2.13	—	—	—
S-6 (D)	01/22/1997	63000	15000	4800	1800	5200	<1000	—	—	—	—	—	—	—	22.08	—	—	—	—	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-6	07/21/1997	61000	15000	2100	1100	3500	1900	—	—	—	—	—	—	—	22.08	20.61	1.47	—	—	—
S-6	01/22/1998	46000	14000	3200	1300	3400	<500	—	—	—	—	—	—	—	22.08	19.82	2.26	—	—	—
S-6	07/08/1998	74000	26000	7500	2200	6200	<1000	—	—	—	—	—	—	—	22.08	18.20	3.88	—	—	—
S-6	10/26/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	22.08	18.81	3.27	—	—	—
S-6	01/28/1999	120000	9000	14000	2700	14000	3700	—	—	—	—	—	—	—	22.08	19.73	2.35	—	—	—
S-6	04/23/1999	58500	15900	1360	1640	3030	<2500	—	—	—	—	—	—	—	22.08	17.58	4.50	—	—	—
S-6	07/29/1999	36200	10300	760	930	1360	<1000	—	—	—	—	—	—	—	22.08	21.35	0.73	—	—	—
S-6	11/01/1999	36000	11700	767	865	1670	<1250	<40.0	—	—	—	—	—	—	22.08	19.23	2.85	—	—	—
S-6	01/07/2000	36000	7600	4600	840	3600	<1000	—	—	—	—	—	—	—	22.08	19.53	2.55	—	—	—
S-6	04/11/2000	14600	7540	205	306	609	621	—	—	—	—	—	—	—	22.08	18.16	3.92	—	—	—
S-6	07/19/2000	2590	629	63.9	99.6	267	124	72.7 b	—	—	—	—	—	—	22.08	18.40	3.68	—	—	—
S-6	10/12/2000	32900	14200	966	1060	1790	<500	<100	—	—	—	—	—	—	22.08	19.52	2.56	—	—	—
S-6	01/09/2001	27600	11200	675	666	1580	1430	<10.0 b	—	—	—	—	—	—	22.08	19.69	2.39	—	—	—
S-6	02/05/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	22.08	19.20	2.88	—	—	—
S-6	04/06/2001	16900	7800	343	172	966	809	<20.0	—	—	—	—	—	—	22.08	18.25	3.83	—	—	—
S-6	07/25/2001	29000	9800	1700	1000	1800	—	<250	—	—	—	—	—	—	22.08	18.27	3.81	—	—	—
S-6	11/01/2001	41000	15000	2400	1100	2500	—	<500	—	—	—	—	—	—	22.08	19.30	2.78	—	—	—
S-6	01/17/2002 d	38000	11000	1700	990	2200	—	<500	—	—	—	—	—	—	22.08	18.51	3.57	—	—	—
S-6	05/08/2002	72000	21000	4400	2200	5300	—	<1000	—	—	—	—	—	—	22.08	18.30	3.78	—	—	—
S-6	07/18/2002	71000	17000	4300	1700	4800	—	<1000	—	—	—	—	—	—	30.56	18.19	12.37	—	—	—
S-6	10/15/2002	55000	16000	4600	1500	4600	—	<100	—	—	—	—	—	—	30.56	18.77	11.79	—	—	—
S-6	01/02/2003	75000	21000	5000	2400	6400	—	<50	—	—	—	—	—	—	30.56	18.60	11.96	—	—	—
S-6	04/15/2003	64000	29000	6400	2700	5600	—	<1000	—	—	—	—	—	—	30.56	18.27	12.29	—	—	—
S-6	07/14/2003	47000	19000	4300	1500	4300	—	<100	—	—	—	—	—	—	30.56	18.05	12.51	—	—	—
S-6	10/20/2003	63000	21000	5800	1900	5200	—	<130	—	—	—	—	—	—	30.56	18.55	12.01	f	—	—
S-6	01/22/2004	41000	21000	4300	1800	4000	—	<130	—	—	—	—	—	—	30.56	18.18	12.38	f	—	—
S-6	04/19/2004	58000	23000	4200	2200	3900	—	<130	—	—	—	—	—	—	30.56	17.32	13.24	—	—	—
S-6	05/03/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	30.56	17.30	13.26	—	—	—
S-6	06/17/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	30.56	17.70	12.86	—	—	—
S-6	07/13/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	30.56	17.85	12.71	—	—	—
S-6	10/28/2004 g	45000	21000	3600	1700	3300	—	<130	—	—	—	—	—	—	30.56	18.45	12.11	—	—	—
S-6	01/17/2005	61000	21000	3500	1600	3200	—	<130	—	—	—	—	—	—	30.56	17.52	13.04	—	—	—
S-6	04/14/2005	36000	12000	6200	850	4800	—	<50	—	—	—	—	—	—	30.56	22.49	8.07	—	—	—
S-6	07/28/2005	54000	16000	9100	1800	5900	—	<130	—	—	—	—	—	—	30.56	19.38	11.18	—	—	—
S-6	10/05/2005	59000	14000	7500	1400	5000	—	<50	—	—	—	—	—	—	30.56	18.32	12.24	—	—	—
S-6	02/09/2006	41100	7060	3900	673	2380	—	<0.500	—	—	—	—	—	—	30.56	17.11	13.45	—	—	—
S-6	05/15/2006	188000	24800	20700	2540	12400	—	<25.0	—	—	—	—	—	—	30.56	19.80	10.76	—	—	—
S-6	08/23/2006	133000	24900	16100	2280	10500	—	<0.500	—	—	—	—	—	—	30.56	20.45	10.11	—	—	—
S-6	11/15/2006	66000	19000	8400	1900	7400	—	<400	—	—	—	—	—	—	30.56	20.41	10.15	—	—	—
S-6	01/30/2007	88000	18000	9600	1900	7200	—	<100	—	—	—	—	—	—	30.56	20.47	10.09	—	—	—
S-6	05/29/2007	56000 h	17000	6700	1700	5400	—	<20	—	—	—	—	—	—	30.56	20.40	10.16	—	—	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-6	08/15/2007	57000 h,i	15000	6800	1600	6100	—	<100	—	—	—	—	—	—	30.56	20.49	10.07	—	—	—
S-6	11/28/2007	42000 h	13000	5000	1300	5000	—	<100	—	—	—	—	—	—	30.56	20.65	9.91	—	—	—
S-6	02/08/2008	35000 h	12000	5000	1200	4050	—	<100	—	—	—	—	<50	<100	30.56	20.31	10.25	—	—	—
S-6	05/08/2008	45000 h	15000	6100	1400	5000	—	<100	—	—	—	—	<50	<100	30.56	20.63	9.93	—	—	—
S-6	08/14/2008	37000	11000	5200	1200	4600	—	<100	—	—	—	—	<50	<100	30.56	20.65	9.91	—	—	—
S-6	11/11/2008 k	37000	15000	6200	1200	3390	—	<10	—	—	—	—	<5.0	<10	30.56	20.79	9.77	—	—	—
S-6	11/11/2008 l	14000	5200	680	400	1060	—	<50	—	—	—	—	<25	<50	30.56	20.79	9.77	—	—	—
S-6	01/05/2009	53000	9400	3600	890	3100	—	<100	—	—	—	—	<50	<100	30.56	21.66	8.90	—	—	—
S-6	04/09/2009	Unable to sample		—	—	—	—	—	—	—	—	—	—	—	30.56	—	—	—	—	—
S-6	04/21/2009	13000	3700	1100	270	750	—	<100	—	—	—	—	<50	<100	30.56	20.20	10.36	—	—	—
S-6	07/23/2009	15000	4400	1100	360	1000	—	—	—	—	—	—	—	—	30.56	20.66	9.90	—	1.13	-73
S-6	10/01/2009	21000	5100	1300	420	1200	—	—	—	—	—	—	—	—	30.56	20.86	9.70	—	0.58	16
S-6	01/28/2010	8700	2600	250	200	400	—	—	—	—	—	—	—	—	30.56	20.36	10.20	—	—	—
S-6	05/20/2010	4400	1600	82	85	150	—	—	—	—	—	—	—	—	30.56	20.68	9.88	—	1.08	64
S-6	08/31/2010	19000	4700	1300	560	1600	—	—	—	—	—	—	—	—	30.56	20.78	9.78	—	1.55	-88
S-6	12/29/2010	15000	3900	1500	520	1800	—	—	—	—	—	—	—	—	30.56	19.92	10.64	—	2.35	123
S-6	02/01/2011	16000	4000	1700	600	1800	—	—	—	—	—	—	—	—	30.56	19.05	11.51	—	0.61	-143
S-6	**04/25/2011**	**23000**	**7800**	**3500**	**960**	**3000**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**30.56**	**17.73**	**12.83**	**—**	**0.76**	**-112**
S-8	12/22/1994	600	120	32	5.2	34	—	—	—	—	—	—	—	—	27.21	24.87	2.34	—	—	—
S-8	04/20/1995	460	180	23	5.2	21	—	—	—	—	—	—	—	—	27.21	23.90	3.31	—	—	—
S-8	10/04/1995	830	210	38	11	42	—	—	—	—	—	—	—	—	27.21	24.48	2.73	—	—	—
S-8	01/03/1996	350	61	12	2.5	12	—	—	—	—	—	—	—	—	27.21	24.62	2.59	—	—	—
S-8 (D)	01/03/1996	340	54	12	2.4	12	—	—	—	—	—	—	—	—	27.21	—	—	—	—	—
S-8	04/11/1996	570	140	37	12	47	<6.2	—	—	—	—	—	—	—	27.21	24.32	2.89	—	—	—
S-8	07/11/1996	980	98	32	9.1	160	<12	—	—	—	—	—	—	—	27.21	24.10	3.11	—	—	—
S-8	10/02/1996	280	62	13	3.3	25	15	—	—	—	—	—	—	—	27.21	25.38	1.83	—	—	—
S-8 (D)	10/02/1996	490	110	24	7.0	45	22	<2.0	—	—	—	—	—	—	27.21	—	—	—	—	—
S-8	01/22/1997	400	90	13	4.9	25	12	—	—	—	—	—	—	—	27.21	23.91	3.30	—	—	—
S-8	07/21/1997	2900	380	110	26	260	85	—	—	—	—	—	—	—	27.21	23.62	3.59	—	—	—
S-8 (D)	07/21/1997	3200	420	120	32	300	130	—	—	—	—	—	—	—	27.21	—	—	—	—	—
S-8	01/22/1998	3800	790	140	42	330	160	—	—	—	—	—	—	—	27.21	23.52	3.69	—	—	—
S-8 (D)	01/22/1998	3500	780	120	33	300	160	—	—	—	—	—	—	—	27.21	—	—	—	—	—
S-8	07/08/1998	3600	1800	<25	<25	<25	<125	—	—	—	—	—	—	—	27.21	21.52	5.69	—	—	—
S-8 (D)	07/08/1998	4000	1800	<25	<25	31	<125	—	—	—	—	—	—	—	27.21	—	—	—	—	—
S-8	10/26/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	27.21	22.01	5.20	—	—	—
S-8	01/28/1999	2000	630	6.2	24	51	43	—	—	—	—	—	—	—	27.21	23.03	4.18	—	—	—
S-8	04/23/1999	1050	408	<5.00	<5.00	6.65	<50.0	—	—	—	—	—	—	—	27.21	22.15	5.06	—	—	—
S-8	07/29/1999	955	344	<2.50	6.90	16.2	<25.0	—	—	—	—	—	—	—	27.21	21.95	5.26	—	—	—
S-8	11/01/1999	1800	550	6.45	15	40.4	<50.0	—	—	—	—	—	—	—	27.21	22.55	4.66	—	—	—
S-8	01/07/2000	1300	600	11	29	48	<13	—	—	—	—	—	—	—	27.21	22.87	4.34	—	—	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-8	04/11/2000	342	101	4.42	4.24	14.7	21.4	—	—	—	—	—	—	—	27.21	21.86	5.35	—	—	—
S-8	07/19/2000	579	228	6.37	6.45	25.0	<12.5	—	—	—	—	—	—	—	27.21	21.93	5.28	—	—	—
S-8	10/12/2000	947	340	8.64	3.26	38.3	<12.5	<2.00	—	—	—	—	—	—	27.21	22.92	4.29	—	—	—
S-8	01/09/2001	1090	394	<10.0	<10.0	33.3	57.6	—	—	—	—	—	—	—	27.21	23.19	4.02	—	—	—
S-8	04/06/2001	671	182	12.5	16.4	47.1	42.5	—	—	—	—	—	—	—	27.21	22.46	4.75	—	—	—
S-8	07/25/2001	500	70	6.7	11	23	—	<5.0	—	—	—	—	—	—	27.21	22.50	4.71	—	—	—
S-8	11/01/2001	1900	250	28	39	180	—	<5.0	—	—	—	—	—	—	27.21	22.44	4.77	—	—	—
S-8	01/17/2002 d	830	140	11	12	89	—	<5.0	—	—	—	—	—	—	27.21	21.82	5.39	—	—	—
S-8	05/08/2002 d	210	34	1.7	4.1	15	—	<5.0	—	—	—	—	—	—	27.21	21.35	5.86	—	—	—
S-8	07/18/2002	650	68	2.8	9.7	42	—	<5.0	—	—	—	—	—	—	35.85	21.53	14.32	—	—	—
S-8	10/15/2002	1000	160	4.2	7.7	74	—	<0.50	—	—	—	—	—	—	35.85	21.97	13.88	—	—	—
S-8	01/02/2003	440	55	1.8	2.9	31	—	<0.50	—	—	—	—	—	—	35.85	21.95	13.90	—	—	—
S-8	04/15/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	21.73	14.12	—	—	—
S-8	07/14/2003	60	6.8	<0.50	0.98	4.9	—	<0.50	—	—	—	—	—	—	35.85	21.40	14.45	—	—	—
S-8	10/20/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	21.94	13.91	—	—	—
S-8	01/22/2004	210	19	0.52	3.6	17	—	<0.50	—	—	—	—	—	—	35.85	21.40	14.45	—	—	—
S-8	04/19/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	20.83	15.02	—	—	—
S-8	07/13/2004	420	77	0.82	14	31	—	<0.50	—	—	—	—	—	—	35.85	21.05	14.80	—	—	—
S-8	10/28/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	21.77	14.08	—	—	—
S-8	01/17/2005	490	85	0.89	13	28	—	<0.50	—	—	—	—	—	—	35.85	20.92	14.93	—	—	—
S-8	04/14/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	21.57	14.28	—	—	—
S-8	07/28/2005	64	12	<0.50	1.5	1.6	—	<0.50	—	—	—	—	—	—	35.85	21.62	14.23	—	—	—
S-8	10/05/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	21.11	14.74	—	—	—
S-8	02/09/2006	<50.0	2.79	<0.500	<0.500	<0.500	—	<0.500	—	—	—	—	—	—	35.85	20.18	15.67	—	—	—
S-8	05/15/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	20.53	15.32	—	—	—
S-8	08/23/2006	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	—	—	—	—	—	—	35.85	21.49	14.36	—	—	—
S-8	11/15/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	22.05	13.80	—	—	—
S-8	01/30/2007	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	35.85	22.41	13.44	—	—	—
S-8	05/29/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	22.65	13.20	—	—	—
S-8	08/15/2007	65 h,i	7.4	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	—	35.85	22.88	12.97	—	—	—
S-8	11/28/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	23.20	12.65	—	—	—
S-8	02/08/2008	350 h	22	<1.0	4.8	2.6	—	1.2	—	—	—	—	<0.50	<1.0	35.85	22.72	13.13	—	—	—
S-8	05/08/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	35.85	22.91	12.94	—	—	—
S-8	08/14/2008	420	28	<1.0	6.3	1.4	—	<1.0	—	—	—	—	<0.50	<1.0	35.85	23.12	12.73	—	—	—
S-8	11/11/2008 k	330	37	<1.0	5.1	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	35.85	23.37	12.48	—	1.6	28
S-8	11/11/2008 l	480	29	<1.0	5.4	<1.0	—	—	—	—	—	—	—	—	35.85	23.37	12.48	—	2.2	103
S-8	12/18/2008	340	38	<1.0	5.4	<1.0	—	—	—	—	—	—	—	—	35.83	23.31	12.52	—	—	—
S-8	01/05/2009	170	15	<1.0	1.2	<1.0	—	—	—	—	—	—	—	—	35.83	23.28	12.55	—	—	—
S-8	01/15/2009	260	45	<1.0	3.2	<1.0	—	—	—	—	—	—	—	—	35.83	23.05	12.78	—	—	—
S-8	02/12/2009	88	7.2	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.83	23.34	12.49	—	—	—
S-8	03/12/2009	12,000	1,700	2,100	200	2,400	—	—	—	—	—	—	—	—	35.83	22.90	12.93	—	—	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-8	04/09/2009	170	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.83	23.10	12.73	—	—	594
S-8	07/23/2009	140	0.55	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.83	23.02	12.81	—	2.38	-54
S-8	10/01/2009	140	0.68	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.83	23.31	12.52	—	4.34	359
S-8	01/28/2010	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.83	22.80	13.03	—	—	—
S-8	05/20/2010	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.83	23.55	12.28	—	0.64	42
S-8	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.83	23.48	12.35	—	0.54	-72
S-8	12/29/2010	79	0.83	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.83	23.18	12.65	—	0.74	133
S-8	02/01/2011	<50	<0.50	<0.50	<0.50	<1.0	—	—	—	—	—	—	—	—	35.83	22.57	13.26	—	1.68	104
S-8	**04/25/2011**	**<50**	**1.1**	**<0.50**	**<0.50**	**<1.0**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**35.83**	**21.26**	**14.57**	**—**	**1.78**	**12**
S-9	12/22/1994	2600	400	150	42	310	—	—	—	—	—	—	—	—	26.06	24.37	1.69	—	—	—
S-9	04/20/1995	1900	400	130	51	200	—	—	—	—	—	—	—	—	26.06	23.49	2.57	—	—	—
S-9	10/04/1995	3200	590	260	68	280	—	—	—	—	—	—	—	—	26.06	24.01	2.05	—	—	—
S-9	01/03/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	26.06	—	—	—	—	—
S-9	04/11/1996	2100	440	1500	42	210	<25	—	—	—	—	—	—	—	26.06	23.61	2.45	—	—	—
S-9	07/11/1996	5200	940	450	120	520	<50	—	—	—	—	—	—	—	26.06	23.78	2.28	—	—	—
S-9 (D)	07/11/1996	4800	890	430	110	500	<50	—	—	—	—	—	—	—	26.06	—	—	—	—	—
S-9	10/02/1996	3000	680	220	56	270	<62	—	—	—	—	—	—	—	26.06	24.31	1.75	—	—	—
S-9	01/22/1997	1500	230	71	36	130	<12	—	—	—	—	—	—	—	26.06	23.08	2.98	—	—	—
S-9	07/21/1997	3400	590	57	19	210	96	—	—	—	—	—	—	—	26.06	22.83	3.23	—	—	—
S-9	01/22/1998	2600	300	46	<10	270	62	—	—	—	—	—	—	—	26.06	21.96	4.10	—	—	—
S-9	07/08/1998	820	150	6.2	7.5	57	<10	—	—	—	—	—	—	—	26.06	20.85	5.21	—	—	—
S-9	10/26/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	26.06	21.39	4.67	—	—	—
S-9	01/28/1999	<50	1.0	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	26.06	22.32	3.74	—	—	—
S-9	04/23/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	26.06	21.41	4.65	—	—	—
S-9	07/29/1999	117	7.77	0.817	0.683	5.05	<5.00	—	—	—	—	—	—	—	26.06	21.25	4.81	—	—	—
S-9	11/01/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	26.06	21.92	4.14	—	—	—
S-9	01/07/2000	<50	1.2	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	26.06	22.11	3.95	—	—	—
S-9	04/11/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	26.06	21.14	4.92	—	—	—
S-9	07/19/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	26.06	—	—	—	—	—
S-9	10/12/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	26.06	22.24	3.82	—	—	—
S-9	01/09/2001	<50.0	1.45	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	26.06	22.52	3.54	—	—	—
S-9	04/06/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	26.06	23.61	2.45	—	—	—
S-9	07/25/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	26.06	—	—	—	—	—
S-9	08/13/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	26.06	—	—	—	—	—
S-9	11/01/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	26.06	21.78	4.28	—	—	—
S-9	01/17/2002 d	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	26.06	21.15	4.91	—	—	—
S-9	05/08/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	26.06	20.56	5.50	—	—	—
S-9	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	34.70	20.88	13.82	—	—	—
S-9	10/15/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	21.41	13.29	—	—	—
S-9	01/02/2003	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	34.70	21.35	13.35	—	—	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-9	04/15/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	21.14	13.56	—	—	—
S-9	07/14/2003	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	34.70	20.80	13.90	—	—	—
S-9	10/20/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	21.33	13.37	—	—	—
S-9	01/22/2004	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	34.70	20.77	13.93	—	—	—
S-9	04/19/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	20.06	14.64	—	—	—
S-9	07/13/2004	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	34.70	20.44	14.26	—	—	—
S-9	10/28/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	21.02	13.68	—	—	—
S-9	01/17/2005	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	34.70	20.18	14.52	—	—	—
S-9	04/14/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	21.85	12.85	—	—	—
S-9	07/28/2005	360	190	1.8	1.1	3.9	—	<0.50	<5.0	<2.0	<2.0	<2.0	—	—	34.70	21.22	13.48	—	—	—
S-9	10/05/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	20.63	14.07	—	—	—
S-9	02/09/2006	<50.0	0.94	<0.500	<0.500	<0.500	—	<0.500	—	—	—	—	—	—	34.70	19.23	15.47	—	—	—
S-9	05/15/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	20.28	14.42	—	—	—
S-9	08/23/2006	7000	1740	55.6	193	278	—	<0.500	<10.0	<0.500	<0.500	<0.500	—	—	34.70	21.31	13.39	—	—	—
S-9	11/15/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	21.79	12.91	—	—	—
S-9	01/30/2007	12000	2200	250	480	980	—	<0.50	—	—	—	—	—	—	34.70	22.08	12.62	—	—	—
S-9	05/29/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	22.22	12.48	—	—	—
S-9	08/15/2007	9800 h,i	2400	100	410	602	—	<10	<100	<20	<20	<20	—	—	34.70	22.43	12.27	—	—	—
S-9	11/28/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	22.75	11.95	—	—	—
S-9	02/08/2008	69 h	2.2	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	34.70	22.31	12.39	—	—	—
S-9	05/08/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	34.70	22.49	12.21	—	—	—
S-9	08/14/2008	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	34.70	22.70	12.00	—	—	—
S-9	11/11/2008 k	<50	2.4	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	34.70	22.90	11.80	—	1.1	92
S-9	11/11/2008 l	550	74	12	22	55.3	—	—	—	—	—	—	—	—	34.70	22.90	11.80	—	3.6	98
S-9	12/18/2008	1500	280	43	71	182	—	—	—	—	—	—	—	—	34.34	22.81	11.53	—	—	—
S-9	01/05/2009	1000	230	24	45	64	—	—	—	—	—	—	—	—	34.34	22.75	11.59	—	—	—
S-9	01/15/2009	2100	560	75	100	245	—	—	—	—	—	—	—	—	34.34	22.37	11.97	—	—	—
S-9	02/12/2009	500	120	19	26	50	—	—	—	—	—	—	—	—	34.34	22.61	11.73	—	—	—
S-9	03/12/2009	810	200	30	50	110	—	—	—	—	—	—	—	—	34.34	22.22	12.12	—	—	—
S-9	04/09/2009	2300	450	60	110	260	—	—	—	—	—	—	—	—	34.34	22.12	12.22	—	0.65	79
S-9	05/18/2009	1500	200	35	61	180	—	—	—	—	—	—	—	—	34.34	22.09	12.25	—	2.71	173
S-9	07/23/2009	1700	430	49	110	190	—	—	—	—	—	—	—	—	34.34	22.48	11.86	—	0.21	346
S-9	10/01/2009	1200	180	12	58	93	—	—	—	—	—	—	—	—	34.34	22.84	11.50	—	1.37	146
S-9	11/09/2009	1400	260	21	67	81	—	—	—	—	—	—	—	—	34.34	22.63	11.71	—	0.42	—
S-9	12/01/2009	1100	110	11	26	59	—	—	—	—	—	—	—	—	34.34	22.44	11.90	—	1.09	133
S-9	01/28/2010	860	130	9.3	38	79	—	—	—	—	—	—	—	—	34.34	22.35	11.99	—	1.95	—
S-9	05/20/2010	1900	340	27	100	210	—	—	—	—	—	—	—	—	34.34	22.40	11.94	—	0.17	138
S-9	06/22/2010	1400	240	30	65	130	—	—	—	—	—	—	—	—	34.34	22.64	11.70	—	2.16	577
S-9	08/31/2010	760	130	13	54	110	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	34.34	22.92	11.42	—	1.53	415
S-9	12/29/2010	290	55	3.3	18	41	—	—	—	—	—	—	—	—	34.34	22.62	11.72	—	1.64	163
S-9	02/01/2011	640	99	7.8	38	72	—	—	—	—	—	—	—	—	34.34	21.88	12.46	—	1.34	0

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-9	**04/25/2011**	**590**	**120**	**9.1**	**29**	**77**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**34.34**	**20.34**	**14.00**	**—**	**0.62**	**98**
S-10	12/22/1994	420	27	8.0	18	45	—	—	—	—	—	—	—	—	28.04	25.84	2.20	—	—	—
S-10	04/20/1995	820	49	3.7	97	52	—	—	—	—	—	—	—	—	28.04	24.92	3.12	—	—	—
S-10	10/04/1995	240	6.5	1.1	16	12	—	—	—	—	—	—	—	—	28.04	25.47	2.57	—	—	—
S-10	01/03/1996	1100	27	4.9	110	70	—	—	—	—	—	—	—	—	28.04	25.60	2.44	—	—	—
S-10	04/11/1996	530	19	1.6	82	52	<5.0	—	—	—	—	—	—	—	28.04	25.27	2.77	—	—	—
S-10	07/11/1996	570	16	3.2	53	53	<2.5	—	—	—	—	—	—	—	28.04	25.46	2.58	—	—	—
S-10	10/02/1996	270	8.2	0.77	24	23	3.3	—	—	—	—	—	—	—	28.04	25.81	2.23	—	—	—
S-10	01/22/1997	160	4.8	0.73	16	11	<2.5	—	—	—	—	—	—	—	28.04	24.74	3.30	—	—	—
S-10	07/21/1997	530	5.7	0.7	29	69	<2.5	—	—	—	—	—	—	—	28.04	24.50	3.54	—	—	—
S-10	01/22/1998	1500	15	<5.0	88	130	<25	—	—	—	—	—	—	—	28.04	24.44	3.60	—	—	—
S-10	07/08/1998	530	4.8	1.1	47	51	<2.5	—	—	—	—	—	—	—	28.04	22.36	5.68	—	—	—
S-10	10/26/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	28.04	22.81	5.23	—	—	—
S-10	01/28/1999	630	4.6	0.98	<0.50	59	<2.5	—	—	—	—	—	—	—	28.04	23.82	4.22	—	—	—
S-10	04/23/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	28.04	22.96	5.08	—	—	—
S-10	07/29/1999	728	3.4	<1.00	41.8	38.0	<10.0	—	—	—	—	—	—	—	28.04	22.63	5.41	—	—	—
S-10	11/01/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	28.04	23.02	5.02	—	—	—
S-10	01/07/2000	870	8.5	1.3	110	110	<2.5	—	—	—	—	—	—	—	28.04	23.33	4.71	—	—	—
S-10	04/11/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	28.04	22.64	5.40	—	—	—
S-10	07/19/2000	612	3.75	<0.500	41.6	43.6	<2.50	—	—	—	—	—	—	—	28.04	23.04	5.00	—	—	—
S-10	10/12/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	28.04	23.92	4.12	—	—	—
S-10	01/09/2001	647	7.62	1.01	66.2	42.4	<2.50	—	—	—	—	—	—	—	28.04	24.13	3.91	—	—	—
S-10	04/06/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	28.04	25.37	2.67	—	—	—
S-10	07/25/2001	340	1.5	<0.50	42	19	—	<5.0	—	—	—	—	—	—	28.04	25.35	2.69	—	—	—
S-10	11/01/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	28.04	23.22	4.82	—	—	—
S-10	01/17/2002 d	1100	3.5	<0.50	55	46	—	<5.0	—	—	—	—	—	—	28.04	22.72	5.32	—	—	—
S-10	05/08/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	28.04	22.35	5.69	—	—	—
S-10	07/18/2002	750	1.8	<0.50	42	26	—	<5.0	—	—	—	—	—	—	36.35	22.05	14.30	—	—	—
S-10	10/15/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	22.51	13.84	—	—	—
S-10	01/02/2003	440	1.8	<0.50	14	24	—	<5.0	—	—	—	—	—	—	36.35	22.50	13.85	—	—	—
S-10	04/15/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	22.32	14.03	—	—	—
S-10	07/14/2003	210	0.86	<0.50	13	12	—	<0.50	—	—	—	—	—	—	36.35	21.99	14.36	—	—	—
S-10	10/20/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	22.53	13.82	—	—	—
S-10	01/22/2004	280	0.88	<0.50	10	11	—	<0.50	—	—	—	—	—	—	36.35	22.02	14.33	—	—	—
S-10	04/19/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	21.43	14.92	—	—	—
S-10	07/13/2004	770	1.5	<0.50	70	42	—	<0.50	—	—	—	—	—	—	36.35	21.68	14.67	—	—	—
S-10	10/28/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	22.37	13.98	—	—	—
S-10	01/17/2005	1100	1.5	<0.50	73	51	—	<0.50	—	—	—	—	—	—	36.35	21.45	14.90	—	—	—
S-10	04/14/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	22.18	14.17	—	—	—
S-10	07/28/2005	260	<0.50	<0.50	19	9.7	—	<0.50	<5.0	<2.0	<2.0	<2.0	—	—	36.35	22.25	14.10	—	—	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-10	10/05/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	21.70	14.65	—	—	—
S-10	02/09/2006	630	<0.500	<0.500	13.8	13.8	—	<0.500	—	—	—	—	—	—	36.35	20.37	15.98	—	—	—
S-10	05/15/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	21.31	15.04	—	—	—
S-10	08/23/2006	<50.0	<0.500	<0.500	14.5	3.4	—	<0.500	<10.0	<0.500	<0.500	<0.500	—	—	36.35	22.12	14.23	—	—	—
S-10	11/15/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	22.68	13.67	—	—	—
S-10	01/30/2007	120	<0.50	<0.50	7	3.3	—	<0.50	—	—	—	—	—	—	36.35	23.09	13.26	—	—	—
S-10	05/29/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	23.20	13.15	—	—	—
S-10	08/15/2007	64 h,i	0.15 j	<1.0	1.4	0.72 j	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	36.35	23.48	12.87	—	—	—
S-10	11/28/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	23.82	12.53	—	—	—
S-10	02/08/2008	61 h	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	36.35	23.31	13.04	—	—	—
S-10	05/08/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	23.55	12.80	—	—	—
S-10	08/14/2008	58	<0.50	<1.0	2.7	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	36.35	23.75	12.60	—	—	—
S-10	11/11/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	23.08	13.27	—	—	—
S-10	12/18/2008	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	36.35	24.00	12.35	—	—	—
S-10	01/05/2009	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	36.35	23.87	12.48	—	—	—
S-10	01/15/2009	<50	<0.50	<1.0	1.1	<1.0	—	—	—	—	—	—	—	—	36.35	23.66	12.69	—	—	—
S-10	02/12/2009	56	<0.50	<1.0	3.4	<1.0	—	—	—	—	—	—	—	—	36.35	23.96	12.39	—	—	—
S-10	03/12/2009	53	<0.50	<1.0	4.9	<1.0	—	—	—	—	—	—	—	—	36.35	23.44	12.91	—	—	—
S-10	04/09/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	36.35	23.26	13.09	—	—	—
S-10	07/23/2009	66	<0.50	<1.0	5.7	<1.0	—	—	—	—	—	—	—	—	36.35	23.56	12.79	—	0.06	112
S-10	10/01/2009	76	<0.50	<1.0	4.6	<1.0	—	—	—	—	—	—	—	—	36.35	23.80	12.55	—	1.26	206
S-10	01/28/2010	100	<0.50	<1.0	3.6	<1.0	—	—	—	—	—	—	—	—	36.35	23.30	13.05	—	—	—
S-10	05/20/2010	52	<0.50	<1.0	1.9	<1.0	—	—	—	—	—	—	—	—	36.35	24.04	12.31	—	0.68	59
S-10	08/31/2010	<50	0.69	<1.0	1.4	<1.0	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	36.35	24.24	12.11	—	0.51	-3
S-10	12/29/2010	95	<0.50	<1.0	3.4	1.4	—	—	—	—	—	—	—	—	36.35	23.89	12.46	—	0.43	87
S-10	02/01/2011	69	<0.50	<0.50	2.2	<1.0	—	—	—	—	—	—	—	—	36.35	23.25	13.10	—	2.08	117
S-10	**04/25/2011**	**55**	**0.51**	**<0.50**	**2.9**	**<1.0**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**36.35**	**21.87**	**14.48**	**—**	**1.32**	**21**
S-12	12/17/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	36.44	24.58	11.86	—	—	—
S-12	02/08/2008	55 h	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	36.44	24.32	12.12	—	—	—
S-12	05/08/2008	<50 h	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	36.44	24.51	11.93	—	—	—
S-12	08/14/2008	<50	1.0	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	36.44	24.63	11.81	—	—	—
S-12	11/11/2008 k	<50	0.95	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	36.44	24.85	11.59	—	0.2	37
S-12	11/11/2008 l	65	8.1	2.2	4.8	1.5	—	—	—	—	—	—	—	—	36.44	24.85	11.59	—	0.2	45
S-12	12/18/2008	<50	8.3	<1.0	1.8	<1.0	—	—	—	—	—	—	—	—	36.44	24.81	11.63	—	—	—
S-12	01/05/2009	95	16	<1.0	3.2	<1.0	—	—	—	—	—	—	—	—	36.44	24.75	11.69	—	—	—
S-12	01/15/2009	140	36	<1.0	12	<1.0	—	—	—	—	—	—	—	—	36.44	24.54	11.90	—	—	—
S-12	02/12/2009	<50	5.0	<1.0	1.6	<1.0	—	—	—	—	—	—	—	—	36.44	24.81	11.63	—	—	—
S-12	03/12/2009	<50	4.8	<1.0	1.5	<1.0	—	—	—	—	—	—	—	—	36.44	24.41	12.03	—	—	—
S-12	04/09/2009	59	6.0	<1.0	1.6	<1.0	—	—	—	—	—	—	—	—	36.44	24.23	12.21	—	0.50	-3
S-12	07/23/2009	130	29	<1.0	13	<1.0	—	—	—	—	—	—	—	—	36.44	24.50	11.94	—	0.07	142

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-12	10/01/2009	130	25	<1.0	15	<1.0	—	—	—	—	—	—	—	—	36.44	24.76	11.68	—	0.74	135
S-12	01/28/2010	110	14	<1.0	19	<1.0	—	—	—	—	—	—	—	—	36.44	24.28	12.16	—	—	—
S-12	05/20/2010	75	8.5	<1.0	7.0	<1.0	—	—	—	—	—	—	—	—	36.44	24.71	11.73	—	0.14	740
S-12	08/31/2010	<50	0.56	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	36.44	25.08	11.36	—	1.18	180
S-12	12/29/2010	<50	0.98	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	36.44	24.60	11.84	—	1.27	121
S-12	02/01/2011	<50	1.8	<0.50	2.8	<1.0	—	—	—	—	—	—	—	—	36.44	23.94	12.50	—	2.06	-2
S-12	**04/25/2011**	**<50**	**0.82**	**<0.50**	**1.7**	**<1.0**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**36.44**	**22.53**	**13.91**	**—**	**0.28**	**196**
S-13	12/17/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	35.16	23.33	11.83	—	—	—
S-13	02/08/2008	14000 h	1900	1300	280	3000	—	<10	—	—	—	—	<5.0	<10	35.16	23.01	12.15	—	—	—
S-13	05/08/2008	18000 h	2800	3400	550	3500	—	<10	—	—	—	—	<5.0	<10	35.16	23.31	11.85	—	—	—
S-13	08/14/2008	16000	2400	3100	580	3100	—	<20	—	—	—	—	<10	<20	35.16	23.31	11.85	—	—	—
S-13	11/11/2008 k	16000	2400	2800	270	2500	—	<50	—	—	—	—	<25	<50	35.16	23.60	11.56	—	0.8	-48
S-13	11/11/2008 l	4400	560	630	88	530	—	—	—	—	—	—	—	—	35.16	23.60	11.56	—	1.2	-60
S-13	12/18/2008	3900	530	560	76	510	—	—	—	—	—	—	—	—	35.05	23.61	11.44	—	—	—
S-13	01/05/2009	8200	700	670	67	1000	—	—	—	—	—	—	—	—	35.05	23.54	11.51	—	—	—
S-13	01/15/2009	5400	610	610	48	950	—	—	—	—	—	—	—	—	35.05	23.10	11.95	—	—	—
S-13	02/12/2009	6300	800	1000	110	870	—	—	—	—	—	—	—	—	35.05	22.36	12.69	—	—	—
S-13	03/12/2009	14000	1700	2300	190	2400	—	—	—	—	—	—	—	—	35.05	23.20	11.85	—	—	—
S-13	04/09/2009	35000	510	7800	1000	4300	—	—	—	—	—	—	—	—	35.05	23.02	12.03	—	25.9	433
S-13	05/18/2009	35000	820	7000	1100	6600	—	—	—	—	—	—	—	—	35.05	23.07	11.98	—	5.21	83
S-13	07/23/2009	18000	1800	3000	480	2500	—	—	—	—	—	—	—	—	35.05	23.51	11.54	—	1.23	148
S-13	10/01/2009	2000	330	87	33	5.2	—	—	—	—	—	—	—	—	35.05	23.61	11.44	—	1.23	413
S-13	11/09/2009	15000	1100	1500	300	1800	—	—	—	—	—	—	—	—	35.05	23.41	11.64	—	0.71	—
S-13	12/01/2009	1600	210	190	34	36	—	—	—	—	—	—	—	—	35.05	23.15	11.90	—	16.3	231
S-13	01/28/2010	5900	370	930	100	680	—	—	—	—	—	—	—	—	35.05	22.94	12.11	—	2.18	—
S-13	05/20/2010	400	35	120	9.5	52	—	—	—	—	—	—	—	—	35.05	23.36	11.69	—	0.31	211
S-13	06/22/2010	16000	570	3000	260	2000	—	—	—	—	—	—	—	—	35.05	23.20	11.85	—	1.10	412
S-13	08/31/2010	3000	140	490	83	540	—	—	—	—	—	—	—	—	35.05	24.00	11.05	—	0.90	400
S-13	12/29/2010	8700	600	1700	260	1700	—	—	—	—	—	—	—	—	35.05	23.48	11.57	—	0.69	231
S-13	02/01/2011	2100	170	390	75	410	—	—	—	—	—	—	—	—	35.05	22.71	12.34	—	1.10	248
S-13	**04/25/2011**	**6000**	**600**	**1800**	**270**	**1300**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**35.05**	**21.15**	**13.90**	**—**	**0.19**	**69**
S-14	12/17/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	34.94	22.68	12.26	—	—	—
S-14	02/08/2008	5300 h	380	300	34	970	—	<10	—	—	—	—	<5.0	<10	34.94	22.82	12.12	—	—	—
S-14	05/08/2008	4300 h	750	270	30	520	—	<10	—	—	—	—	<5.0	<10	34.94	22.41	12.53	—	—	—
S-14	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
S-14R	11/07/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	35.19	22.91	12.28	—	—	—
S-14R	11/11/2008 k	8500	680	270	<25	1110	—	—	—	—	—	—	—	—	35.19	23.13	12.06	—	0.60	115
S-14R	11/11/2008 l	4300	270	190	43	470	—	—	—	—	—	—	—	—	35.19	23.13	12.06	—	1.5	116

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-14R	12/18/2008	7800	530	640	79	1010	—	—	—	—	—	—	—	—	34.95	22.80	12.15	—	—	—
S-14R	01/05/2009	2100	89	86	19	140	—	—	—	—	—	—	—	—	34.95	22.80	12.15	—	—	—
S-14R	01/15/2009	4800	430	540	83	730	—	—	—	—	—	—	—	—	34.95	22.57	12.38	—	—	—
S-14R	02/12/2009	1000	40	29	7.3	55	—	—	—	—	—	—	—	—	34.95	22.89	12.06	—	—	—
S-14R	03/12/2009	350	22	18	3.3	29	—	—	—	—	—	—	—	—	34.95	22.39	12.56	—	—	—
S-14R	04/09/2009	2300	230	240	47	250	—	—	—	—	—	—	—	—	34.95	22.35	12.60	—	0.30	430
S-14R	05/18/2009	750	51	48	17	67	—	—	—	—	—	—	—	—	34.95	22.20	12.75	—	5.63	93
S-14R	07/23/2009	600	81	57	19	47	—	—	—	—	—	—	—	—	34.95	22.56	12.39	—	0.05	246
S-14R	10/01/2009	230	12	10	5.3	23	—	—	—	—	—	—	—	—	34.95	22.90	12.05	—	2.22	201
S-14R	11/09/2009	330	47	21	11	39	—	—	—	—	—	—	—	—	34.95	22.68	12.27	—	0.75	—
S-14R	12/01/2009	420	38	27	12	39	—	—	—	—	—	—	—	—	34.95	22.62	12.33	—	0.45	110
S-14R	01/28/2010	270	45	27	11	32	—	—	—	—	—	—	—	—	34.95	22.38	12.57	—	3.75	—
S-14R	05/20/2010	330	17	10	2.7	13	—	—	—	—	—	—	—	—	34.95	22.72	12.23	—	0.96	102
S-14R	08/31/2010	130	5.8	3.5	1.4	6.1	—	—	—	—	—	—	—	—	34.95	23.12	11.83	—	1.55	-13
S-14R	12/29/2010	480	56	30	13	52	—	—	—	—	—	—	—	—	34.95	22.75	12.20	—	0.48	375
S-14R	02/01/2011	570	56	32	20	59	—	—	—	—	—	—	—	—	34.95	22.10	12.85	—	0.58	143
S-14R	**04/25/2011**	**860**	**100**	**59**	**41**	**97**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**34.95**	**20.80**	**14.15**	**—**	**0.81**	**-37**
S-15	12/17/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	35.34	23.00	12.34	—	—	—
S-15	02/08/2008	55000 h	6700	13000	1100	9800	—	<10	—	—	—	—	<5.0	<10	35.34	22.71	12.63	—	—	—
S-15	05/08/2008	53000 h	6300	13000	1500	7500	—	<200	—	—	—	—	<100	<200	35.34	22.91	12.43	—	—	—
S-15	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
S-16	12/17/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	36.08	23.88	12.20	—	—	—
S-16	02/08/2008	6000 h	670	730	88	1290	—	<5.0	—	—	—	—	<2.5	<5.0	36.08	23.52	12.56	—	—	—
S-16	05/08/2008	3200 h	670	320	18	580	—	<10	—	—	—	—	<5.0	<10	36.08	23.69	12.39	—	—	—
S-16	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
S-17	06/19/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	35.49	23.30	12.19	—	—	—
S-17	06/25/2008	21000	1300	1300	160	2850	—	<5.0	—	—	—	—	<2.5	<5.0	35.49	23.33	12.16	—	—	—
S-17	08/14/2008	14000	1700	1700	310	2250	—	<10	—	—	—	—	<5.0	<10	35.49	23.50	11.99	—	—	—
S-17	11/11/2008 k	7200	1600	820	140	760	—	<5.0	—	—	—	—	<2.5	<5.0	35.49	23.70	11.79	—	—	—
S-17	11/11/2008 l	32000	2500	3100	820	4000	—	<25	—	—	—	—	<12	<25	35.49	23.70	11.79	—	—	—
S-17	01/05/2009	15000	790	700	150	1200	—	<10	—	—	—	—	<5.0	<10	35.50	23.66	11.84	—	—	—
S-17	01/15/2009	2300	220	170	19	300	—	—	—	—	—	—	—	—	35.50	23.37	12.13	—	—	—
S-17	02/12/2009	4700	750	200	37	23	—	—	—	—	—	—	—	—	35.50	23.66	11.84	—	—	—
S-17	03/12/2009	3300	640	370	81	290	—	—	—	—	—	—	—	—	35.50	23.24	12.26	—	—	—
S-17	04/09/2009	1300	200	110	37	100	—	—	—	—	—	—	—	—	35.50	23.20	12.30	—	0.69	429
S-17	05/18/2009	630	97	44	17	25	—	—	—	—	—	—	—	—	35.50	23.21	12.29	—	5.93	442
S-17	07/23/2009	3900	480	410	160	480	—	—	—	—	—	—	—	—	35.50	23.70	11.80	—	0.15	34
S-17	10/01/2009	1300	32	24	3.1	72	—	—	—	—	—	—	—	—	35.50	23.64	11.86	—	1.30	204

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-17	11/09/2009	5300	260	330	56	500	—	—	—	—	—	—	—	—	35.50	23.52	11.98	—	0.18	—
S-17	12/01/2009	3300	190	210	52	240	—	—	—	—	—	—	—	—	35.50	23.41	12.09	—	0.95	450
S-17	01/28/2010	3500	260	250	85	310	—	—	—	—	—	—	—	—	35.50	23.21	12.29	—	1.93	—
S-17	05/20/2010	370	18	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.50	23.65	11.85	—	1.31	544
S-17	08/31/2010	1900	120	110	52	260	—	—	—	—	—	—	—	—	35.50	23.92	11.58	—	1.32	370
S-17	12/29/2010	2600	200	150	91	280	—	—	—	—	—	—	—	—	35.50	23.60	11.90	—	1.37	131
S-17	02/01/2011	950	100	72	47	130	—	—	—	—	—	—	—	—	35.50	22.91	12.59	—	1.40	136
S-17	**04/25/2011**	**2000**	**150**	**71**	**77**	**210**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**35.50**	**21.44**	**14.06**	**—**	**0.23**	**82**
S-18	06/19/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	35.04	22.94	12.10	—	—	—
S-18	06/25/2008	58000	2200	5600	880	10200	—	<10	—	—	—	—	<5.0	<10	35.04	22.92	12.12	—	—	—
S-18	08/14/2008	25000	2500	4500	860	5800	—	<50	—	—	—	—	<25	<50	35.04	23.08	11.96	—	—	—
S-18	11/11/2008 k	24000	2400	3300	820	3800	—	<25	—	—	—	—	<12	<25	35.04	23.30	11.74	—	—	—
S-18	11/11/2008 l	43000	3900	5500	1300	6500	—	<50	—	—	—	—	<25	<50	35.04	23.30	11.74	—	—	—
S-18	01/05/2009	20000	830	1000	290	1400	—	<50	—	—	—	—	<25	<50	35.03	23.16	11.87	—	—	—
S-18	01/15/2009	8200	690	790	150	1230	—	—	—	—	—	—	—	—	35.03	22.97	12.06	—	—	—
S-18	02/12/2009	13000	1200	1400	330	940	—	—	—	—	—	—	—	—	35.03	23.29	11.74	—	—	—
S-18	03/12/2009	52000	5300	9000	1600	10000	—	—	—	—	—	—	—	—	35.03	22.85	12.18	—	—	—
S-18	04/09/2009	Insufficient water		—	—	—	—	—	—	—	—	—	—	—	35.03	22.79	12.24	—	—	—
S-18	05/18/2009	6700	320	1100	200	1000	—	—	—	—	—	—	—	—	35.03	22.81	12.22	—	6.51	377
S-18	07/23/2009	8900	500	890	290	1600	—	—	—	—	—	—	—	—	35.03	22.91	12.12	—	0.20	—
S-18	10/01/2009	1800	49	5.5	5.3	<5.0	—	—	—	—	—	—	—	—	35.03	23.65	11.38	—	6.25	557
S-18	11/09/2009	1100	79	8.9	5.3	1.1	—	—	—	—	—	—	—	—	35.03	23.19	11.84	—	0.26	—
S-18	12/01/2009	570	50	7.5	2.7	1.2	—	—	—	—	—	—	—	—	35.03	23.12	11.91	—	4.07	460
S-18	01/28/2010	1200	170	91	18	68	—	—	—	—	—	—	—	—	35.03	22.86	12.17	—	1.90	—
S-18	05/20/2010	3900	500	690	79	240	—	—	—	—	—	—	—	—	35.03	23.12	11.91	—	1.77	169
S-18	06/22/2010	13000	1700	2800	200	1000	—	—	—	—	—	—	—	—	35.03	23.10	11.93	—	0.58	499
S-18	08/31/2010	6600	970	1100	230	1000	—	—	—	—	—	—	—	—	35.03	23.55	11.48	—	1.23	258
S-18	12/29/2010	8500	1000	750	410	1800	—	—	—	—	—	—	—	—	35.03	23.23	11.80	—	0.79	70
S-18	02/01/2011	2100	210	190	87	180	—	—	—	—	—	—	—	—	35.03	22.52	12.51	—	1.13	220
S-18	**04/25/2011**	**13000**	**2100**	**2000**	**470**	**2300**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**35.03**	**21.00**	**14.03**	**—**	**0.52**	**85**
S-19	11/07/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	34.78	22.73	12.05	—	—	—
S-19	11/11/2008 k	7100	500	600	25	1010	—	—	—	—	—	—	—	—	34.78	22.87	11.91	—	1.0	62
S-19	11/11/2008 l	2300	110	160	43	280	—	—	—	—	—	—	—	—	34.78	22.87	11.91	—	1.3	71
S-19	12/18/2008	2900	190	300	41	420	—	—	—	—	—	—	—	—	34.57	22.60	11.97	—	—	—
S-19	01/05/2009	3400	230	250	50	380	—	—	—	—	—	—	—	—	34.57	22.56	12.01	—	—	—
S-19	01/15/2009	3100	340	540	70	440	—	—	—	—	—	—	—	—	34.57	22.31	12.26	—	—	—
S-19	02/12/2009	1300	130	180	37	190	—	—	—	—	—	—	—	—	34.57	22.58	11.99	—	—	—
S-19	03/12/2009	880	110	150	30	160	—	—	—	—	—	—	—	—	34.57	22.44	12.13	—	—	—
S-19	04/09/2009	1300	140	190	32	190	—	—	—	—	—	—	—	—	34.57	22.02	12.55	—	0.57	106

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-19	05/18/2009	780	69	87	17	100	—	—	—	—	—	—	—	—	34.57	22.04	12.53	—	6.47	75
S-19	07/23/2009	400	77	59	15	38	—	—	—	—	—	—	—	—	34.57	22.40	12.17	—	0.06	31
S-19	10/01/2009	1500	160	170	33	120	—	—	—	—	—	—	—	—	34.57	22.66	11.91	—	0.52	301
S-19	11/09/2009	1600	140	160	41	160	—	—	—	—	—	—	—	—	34.57	22.44	12.13	—	0.26	—
S-19	12/01/2009	1600	150	180	45	170	—	—	—	—	—	—	—	—	34.57	22.62	11.95	—	0.79	161
S-19	01/28/2010	2600	230	280	71	300	—	—	—	—	—	—	—	—	34.57	22.29	12.28	—	1.71	—
S-19	05/20/2010	850	110	55	11	4.6	—	—	—	—	—	—	—	—	34.57	22.49	12.08	—	1.77	118
S-19	08/31/2010	580	79	92	22	50	—	—	—	—	—	—	—	—	34.57	22.86	11.71	—	1.02	297
S-19	12/29/2010	920	120	120	54	150	—	—	—	—	—	—	—	—	34.57	22.48	12.09	—	1.12	150
S-19	02/01/2011	1800	210	270	100	320	—	—	—	—	—	—	—	—	34.57	21.78	12.79	—	1.08	21
S-19	**04/25/2011**	**2100**	**290**	**360**	**140**	**470**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**34.57**	**20.42**	**14.15**	**—**	**0.25**	**115**
S-20	11/07/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	34.50	22.80	11.70	—	—	—
S-20	11/11/2008 k	13000	1300	1600	80	1920	—	—	—	—	—	—	—	—	34.50	22.90	11.60	—	0.8	-39
S-20	11/11/2008 l	16000	1100	1800	220	1930	—	—	—	—	—	—	—	—	34.50	22.90	11.60	—	2.6	-64
S-20	01/05/2009	17000	1500	1700	320	1900	—	—	—	—	—	—	—	—	34.50	22.78	11.72	—	—	—
S-20	02/12/2009	11000	1300	1400	230	1600	—	—	—	—	—	—	—	—	34.50	22.80	11.70	—	2.6	-64
S-20	03/12/2009	19000	2700	3200	390	3100	—	—	—	—	—	—	—	—	34.50	22.40	12.10	—	—	—
S-20	04/09/2009	8200	80	480	220	490	—	—	—	—	—	—	—	—	34.50	22.90	11.60	—	13.80	578
S-20	05/18/2009	21000	970	1500	630	4800	—	—	—	—	—	—	—	—	34.50	22.42	12.08	—	4.58	197
S-20	07/23/2009	41000	4900	2900	990	7300	—	—	—	—	—	—	—	—	34.50	22.73	11.77	—	0.27	419
S-20	10/01/2009	1800	140	39	33	39	—	—	—	—	—	—	—	—	34.50	23.00	11.50	—	0.85	533
S-20	11/09/2009	21000	1600	740	300	2500	—	—	—	—	—	—	—	—	34.50	22.72	11.78	—	1.67	—
S-20	12/01/2009	12000	1100	450	160	1200	—	—	—	—	—	—	—	—	34.50	22.61	11.89	—	1.38	347
S-20	01/28/2010	20000	2000	1600	260	2000	—	—	—	—	—	—	—	—	34.50	22.51	11.99	—	4.40	—
S-20	05/20/2010	4300	1100	110	26	61	—	—	—	—	—	—	—	—	34.50	22.90	11.60	—	8.96	555
S-20	06/22/2010	7100	1300	550	120	550	—	—	—	—	—	—	—	—	34.50	23.19	11.31	—	11.64	637
S-20	08/31/2010	9600	1800	1400	230	580	—	—	—	—	—	—	—	—	34.50	23.13	11.37	—	0.94	529
S-20	12/29/2010	19000	2000	3100	860	3200	—	—	—	—	—	—	—	—	34.50	22.72	11.78	—	0.92	193
S-20	02/01/2011	26000	3900	7100	1300	5800	—	—	—	—	—	—	—	—	34.50	22.04	12.46	—	1.03	390
S-20	**04/25/2011**	**41000**	**6600**	**11000**	**2000**	**9800**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**34.50**	**20.60**	**13.90**	**—**	**0.43**	**156**
S-21A	11/07/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	35.81	23.73	12.08	—	—	—
S-21A	11/11/2008 k	96000	6100	11000	1700	10500	—	—	—	—	—	—	—	—	35.81	23.86	11.95	—	1.6	-42
S-21A	11/11/2008 l	87000	6300	13000	1700	10300	—	—	—	—	—	—	—	—	35.81	23.86	11.95	—	1.8	-51
S-21A	12/18/2008	17000	3700	1200	170	47	—	—	—	—	—	—	—	—	35.80	23.91	11.89	—	—	—
S-21A	01/05/2009	28000	3100	2900	450	1100	—	—	—	—	—	—	—	—	35.80	23.78	12.02	—	—	—
S-21A	01/15/2009	9700	2100	290	45	<25	—	—	—	—	—	—	—	—	35.80	23.53	12.27	—	—	—
S-21A	02/12/2009	19000	3100	2500	330	500	—	—	—	—	—	—	—	—	35.80	23.83	11.97	—	—	—
S-21A	03/12/2009	31000	2600	3800	810	3700	—	—	—	—	—	—	—	—	35.80	23.35	12.45	—	—	—
S-21A	04/09/2009	7800	700	750	130	<25	—	—	—	—	—	—	—	—	35.80	24.00	11.80	—	0.91	304

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-21A	05/18/2009	15000	1800	2200	390	1900	—	—	—	—	—	—	—	—	35.80	23.46	12.34	—	2.37	529
S-21A	07/23/2009	51000	4800	7100	1100	7000	—	—	—	—	—	—	—	—	35.80	23.85	11.95	—	0.14	-3
S-21A	10/01/2009	18000	2300	2200	310	2400	—	—	—	—	—	—	—	—	35.80	24.06	11.74	—	7.92	575
S-21A	11/09/2009	41000	3500	5800	600	4800	—	—	—	—	—	—	—	—	35.80	23.73	12.07	—	0.34	—
S-21A	12/01/2009	43000	3100	6700	640	4900	—	—	—	—	—	—	—	—	35.80	23.60	12.20	—	2.55	350
S-21A	01/28/2010	65000	3900	9900	970	6600	—	—	—	—	—	—	—	—	35.80	23.54	12.26	—	1.43	—
S-21A	05/20/2010	6000	670	760	110	150	—	—	—	—	—	—	—	—	35.80	23.92	11.88	—	1.37	541
S-21A	06/22/2010	16000	690	2000	370	2300	—	—	—	—	—	—	—	—	35.80	23.87	11.93	—	2.33	439
S-21A	08/31/2010	5000	230	420	190	990	—	—	—	—	—	—	—	—	35.80	24.13	11.67	—	0.73	392
S-21A	12/29/2010	5100	500	430	230	810	—	—	—	—	—	—	—	—	35.80	23.84	11.96	—	0.95	464
S-21A	02/01/2011	9200	840	750	370	1300	—	—	—	—	—	—	—	—	35.80	23.18	12.62	—	0.84	110
S-21A	**04/25/2011**	**22000**	**3800**	**4000**	**960**	**4800**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**35.80**	**21.71**	**14.09**	**—**	**0.36**	**336**
S-21B	11/07/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	35.79	23.68	12.11	—	—	—
S-21B	11/11/2008 k	3200	49	300	93	510	—	—	—	—	—	—	—	—	35.79	23.80	11.99	—	0.4	-108
S-21B	11/11/2008 l	7500	67	470	150	960	—	—	—	—	—	—	—	—	35.79	23.80	11.99	—	5.6	-135
S-21B	12/18/2008	5300	36	310	120	770	—	—	—	—	—	—	—	—	35.76	23.72	12.04	—	—	—
S-21B	01/05/2009	5400	35	200	93	600	—	—	—	—	—	—	—	—	35.76	23.70	12.06	—	—	—
S-21B	01/15/2009	3300	30	150	78	470	—	—	—	—	—	—	—	—	35.76	23.43	12.33	—	—	—
S-21B	02/12/2009	2800	12	100	69	450	—	—	—	—	—	—	—	—	35.76	23.81	11.95	—	—	—
S-21B	03/12/2009	2300	9.4	72	50	320	—	—	—	—	—	—	—	—	35.76	23.32	12.44	—	—	—
S-21B	04/09/2009	890	14	55	19	140	—	—	—	—	—	—	—	—	35.76	23.20	12.56	—	0.56	453
S-21B	05/18/2009	390	6.8	14	12	27	—	—	—	—	—	—	—	—	35.76	23.24	12.52	—	1.62	458
S-21B	06/17/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	35.76	23.40	12.36	—	—	—
S-21B	07/23/2009	920	5.0	17	28	120	—	—	—	—	—	—	—	—	35.76	23.52	12.24	—	0.26	37
S-21B	10/01/2009	820	2.6	10	17	89	—	—	—	—	—	—	—	—	35.76	23.95	11.81	—	0.96	353
S-21B	01/28/2010	810	11	6.2	10	51	—	—	—	—	—	—	—	—	35.76	23.30	12.46	—	—	—
S-21B	05/20/2010	120	1.4	2.6	2.0	2.7	—	—	—	—	—	—	—	—	35.76	23.46	12.30	—	1.63	206
S-21B	08/31/2010	500	0.81	3.4	6.9	32	—	—	—	—	—	—	—	—	35.76	24.04	11.72	—	0.72	45
S-21B	12/29/2010	310	<0.50	1.9	4.5	21	—	—	—	—	—	—	—	—	35.76	23.59	12.17	—	0.40	191
S-21B	02/01/2011	270	<0.50	2.0	4.0	16	—	—	—	—	—	—	—	—	35.76	23.08	12.68	—	0.51	10
S-21B	**04/25/2011**	**250**	**<0.50**	**1.9**	**4.6**	**16**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**35.76**	**21.86**	**13.90**	**—**	**1.43**	**72**
S-22A	11/07/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	35.08	22.91	12.17	—	—	—
S-22A	11/11/2008 k	84000	8500	11000	2200	13900	—	—	—	—	—	—	—	—	35.08	23.15	11.93	—	1.0	117
S-22A	11/11/2008 l	85000	7600	10000	2500	12400	—	—	—	—	—	—	—	—	35.08	23.15	11.93	—	1.6	100
S-22A	12/18/2008	42000	6300	6600	1200	4400	—	—	—	—	—	—	—	—	35.06	23.03	12.03	—	—	—
S-22A	01/05/2009	56000	4500	5300	1200	6400	—	—	—	—	—	—	—	—	35.06	23.03	12.03	—	—	—
S-22A	01/15/2009	25000	5900	4400	740	1570	—	—	—	—	—	—	—	—	35.06	22.84	12.22	—	—	—
S-22A	02/12/2009	43000	6700	6600	1200	5000	—	—	—	—	—	—	—	—	35.06	23.15	11.91	—	—	—
S-22A	03/12/2009	35000	4600	4600	980	4600	—	—	—	—	—	—	—	—	35.06	22.65	12.41	—	—	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-22A	04/09/2009	22000	120	1900	680	3400	—	—	—	—	—	—	—	—	35.06	22.88	12.18	—	8.41	556
S-22A	05/18/2009	25000	4700	1300	590	3700	—	—	—	—	—	—	—	—	35.06	22.83	12.23	—	2.46	539
S-22A	07/23/2009	40000	5100	4800	700	4900	—	—	—	—	—	—	—	—	35.06	23.01	12.05	—	0.18	167
S-22A	10/01/2009	12000	1400	600	88	500	—	—	—	—	—	—	—	—	35.06	23.06	12.00	—	4.08	523
S-22A	11/09/2009	18000	2700	2000	190	1300	—	—	—	—	—	—	—	—	35.06	23.14	11.92	—	1.74	—
S-22A	12/01/2009	24000	2300	2300	270	2000	—	—	—	—	—	—	—	—	35.06	23.10	11.96	—	1.06	393
S-22A	01/28/2010	44000	3600	5000	620	4300	—	—	—	—	—	—	—	—	35.06	22.92	12.14	—	1.40	—
S-22A	05/20/2010	3100	38	<10	<10	<10	—	—	—	—	—	—	—	—	35.06	23.22	11.84	—	0.48	423
S-22A	06/22/2010	2400	110	15	4.3	6.6	—	—	—	—	—	—	—	—	35.06	23.51	11.55	—	6.10	542
S-22A	08/31/2010	5000	690	600	78	350	—	—	—	—	—	—	—	—	35.06	23.52	11.54	—	1.03	553
S-22A	12/29/2010	13000	1300	1800	490	2100	—	—	—	—	—	—	—	—	35.06	23.17	11.89	—	0.70	476
S-22A	02/01/2011	13000	1800	3100	640	2800	—	—	—	—	—	—	—	—	35.06	22.45	12.61	—	0.89	453
S-22A	**04/25/2011**	**23000**	**2600**	**5500**	**1200**	**6200**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**35.06**	**21.37**	**13.69**	**—**	**0.40**	**506**
S-22B	11/07/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	35.15	23.06	12.09	—	—	—
S-22B	11/11/2008 k	<50	<0.50	<1.0	<1.0	1.2	—	—	—	—	—	—	—	—	35.15	23.20	11.95	—	0.9	92
S-22B	11/11/2008 l	360	3.3	12	5.8	38	—	—	—	—	—	—	—	—	35.15	23.20	11.95	—	1.6	90
S-22B	12/18/2008	150	2.9	6.1	2.9	17.5	—	—	—	—	—	—	—	—	35.24	23.26	11.98	—	—	—
S-22B	01/05/2009	110	1.9	5.0	2.6	11	—	—	—	—	—	—	—	—	35.24	28.12	7.12	—	—	—
S-22B	01/15/2009	59	1.3	1.9	1.6	<1.0	—	—	—	—	—	—	—	—	35.24	22.90	12.34	—	—	—
S-22B	02/12/2009	290	11	6.8	7.9	19	—	—	—	—	—	—	—	—	35.24	23.02	12.22	—	—	—
S-22B	03/12/2009	390	4.4	4.6	3.8	12	—	—	—	—	—	—	—	—	35.24	22.86	12.38	—	—	—
S-22B	04/09/2009	280	5.3	2.5	4.0	6.8	—	—	—	—	—	—	—	—	35.24	22.62	12.62	—	2.24	164
S-22B	05/18/2009	170	3.7	2.9	2.4	8.6	—	—	—	—	—	—	—	—	35.24	22.62	12.62	—	1.42	-171
S-22B	07/23/2009	160	8.9	5.7	3.8	12	—	—	—	—	—	—	—	—	35.24	22.65	12.59	—	0.15	28
S-22B	10/01/2009	300	2.4	1.0	1.2	<1.0	—	—	—	—	—	—	—	—	35.24	23.18	12.06	—	2.62	173
S-22B	01/28/2010	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.24	22.73	12.51	—	—	—
S-22B	05/20/2010	230	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.24	22.88	12.36	—	6.14	584
S-22B	08/31/2010	<50	0.57	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.24	23.51	11.73	—	0.92	377
S-22B	12/29/2010	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	—	35.24	23.04	12.20	—	1.07	391
S-22B	02/01/2011	<50	0.55	<0.50	<0.50	<1.0	—	—	—	—	—	—	—	—	35.24	22.70	12.54	—	1.07	-3
S-22B	**04/25/2011**	**<50**	**<0.50**	**0.62**	**<0.50**	**1.1**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**35.24**	**21.38**	**13.86**	**—**	**1.37**	**416**
S-23	11/07/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	35.77	23.28	12.49	—	—	—
S-23	11/11/2008 k	8800	640	610	82	1260	—	—	—	—	—	—	—	—	35.77	23.58	12.19	—	—	—
S-23	11/11/2008 l	6400	520	640	34	760	—	—	—	—	—	—	—	—	35.77	23.58	12.19	—	—	—
S-23	01/05/2009	830	63	98	14	58	—	—	—	—	—	—	—	—	35.75	23.51	12.24	—	—	—
S-23	02/12/2009	3400	160	320	55	430	—	—	—	—	—	—	—	—	35.75	23.62	12.13	—	—	—
S-23	03/12/2009	4600	210	460	71	610	—	—	—	—	—	—	—	—	35.75	23.03	12.72	—	—	—
S-23	04/09/2009	2700	180	95	33	<5.0	—	—	—	—	—	—	—	—	35.75	22.98	12.77	—	1.24	567
S-23	05/18/2009	3000	350	440	79	300	—	—	—	—	—	—	—	—	35.75	23.18	12.57	—	19.77	503

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)
S-23	07/23/2009	2900	180	400	67	340	—	—	—	—	—	—	—	—	35.75	23.48	12.27	—	0.21	133
S-23	10/01/2009	790	40	24	5.4	<1.0	—	—	—	—	—	—	—	—	35.75	23.82	11.93	—	8.64	428
S-23	11/09/2009	3200	84	330	90	400	—	—	—	—	—	—	—	—	35.75	23.51	12.24	—	0.28	—
S-23	12/01/2009	1800	47	180	50	190	—	—	—	—	—	—	—	—	35.75	23.31	12.44	—	2.49	472
S-23	01/28/2010	3000	100	450	110	650	—	—	—	—	—	—	—	—	35.75	23.25	12.50	—	1.74	—
S-23	05/20/2010	900	8.2	<5.0	<5.0	<5.0	—	—	—	—	—	—	—	—	35.75	23.80	11.95	—	3.76	607
S-23	06/22/2010	640	11	22	9.0	11	—	—	—	—	—	—	—	—	35.75	24.40	11.35	—	12.96	572
S-23	08/31/2010	710	14	45	34	110	—	—	—	—	—	—	—	—	35.75	23.95	11.80	—	1.25	322
S-23	12/29/2010	1300	45	82	56	240	—	—	—	—	—	—	—	—	35.75	23.61	12.14	—	1.39	313
S-23	02/01/2011	1300	51	110	72	270	—	—	—	—	—	—	—	—	35.75	22.92	12.83	—	1.30	107
S-23	**04/25/2011**	**1300**	**53**	**110**	**81**	**400**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**35.75**	**21.62**	**14.13**	**—**	**0.96**	**321**
AS-1	12/17/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	35.33	22.91	12.42	—	—	—
AS-1	02/08/2008	130 h	1.1	3.4	<1.0	5.4	—	<1.0	—	—	—	—	<0.50	<1.0	35.33	22.62	12.71	—	—	—
AS-1	05/08/2008	<50 h	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	<0.50	<1.0	35.33	27.78	7.55	—	—	—
OW-1	04/09/2009	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OW-1	05/18/2009	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
TPHg = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8260B; prior to July 25, 2001, analyzed by EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes, analyzed by EPA Method 8260B; prior to July 25, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether
TBA = Tertiary-butyl alcohol, analyzed by EPA Method 8260B
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
EDC = 1,2-Dichloroethane, analyzed by EPA Method 8260B.
EDB = 1,2-Dibromoethane, analyzed by EPA Method 8260B.
TOC = Top of casing elevation, in feet above mean sea level
SPH = Separate-phase hydrocarbons
GW = Groundwater
D.O. = Dissolved oxygen
O.R.P. = Oxygen redox potential
µg/l = Micrograms per liter
ft. = Feet
MSL = Mean sea level
mg/l = Parts per million
mV = Millivolts
<n = Below detection limit n
(D) = Duplicate sample

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	MTBE 8020 (µg/l)	MTBE 8260 (µg/l)	TBA (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	EDC (µg/l)	EDB (µg/l)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft.)	D.O. (mg/l)	O.R.P. (mV)

--- = Not applicable

a = Ethylbenzene and xylenes combined.
b = This sample analyzed outside of EPA recommended holding time.
c = Depth to water measured from TOC; elevation unknown.
d = Grab sampled.
e = Casing broken; TOC elevation unknown.
f = SPH detected at <0.01 feet.
g = S-6 was purged prior to sampling.
h = Analyzed by EPA Method 8015B (M).
i = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
j = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
k = Pre-purge sample
l = Post-purge sample

Prior to December 22, 1994, well elevations taken from Top of Box.
Beginning July 18, 2002, well elevations taken from TOC
Site surveyed March 5, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.
Site surveyed December 18, 2007 by Virgil Chavez Land Surveying of Vallejo, CA.
Wells S-14R and S-19 through S-23 surveyed on November 11, 2008 by Virgil Chavez Land Surveying of Vallejo, CA.
Well S-5 surveyed on November 11, 2008 by Virgil Chavez Land Surveying of Vallejo, CA.
Well S-5 surveyed on October 8, 2009 by Virgil Chavez Land Surveying of Vallejo, CA.

APPENDIX A

BLAINE TECH SERVICES, INC. – FIELD NOTES

WELL GAUGING DATA

Project # 110425-WW1 Date 9/25/11 Client SHELL

Site 461 8TH STREET, 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-4	0916	4					17.32	28.45		
S-5	1020	4					13.98	29.88		
S-6	1045	4		—			17.73	35.02		1
S-8	0930	4					21.26	28.85		
S-9	0929	4					20.34	29.62		
S-10	0932	4					21.87	35.75		
S-12	0924	4					22.53	34.16		
S-13	0942	4					21.15	32.30		
S-14R	0951	4					20.80	34.22		
S-17	0936	2					21.44	33.36		
S-18	0939	2					21.00	32.99		
S-19	0932	4	ODOR				20.42	34.47		
S-20	0945	4					20.60	34.50		
S-21A	0954	4	ODOR				21.71	26.39		
S-21B	0942	4					21.26	39.10		
S-22A	1255	4					21.37	26.30		*
S-22B	1250	4					21.38	39.61		*

WELL GAUGING DATA

Project # 110425-WW1 Date 4/25/11 Client SHELL

Site 461 8th STREET, 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-23	0959	4					21.62	34.47	↓	
	*	GAUGED	LATE	DUE	TO	VEHICLE	PARKED	OVER	WELL	

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: (WW), IW	Date: 4/25/11
Well I.D.: S-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.88	Depth to Water (DTW): 13.98
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]: 17.16	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, ~~Electric Submersible~~, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, (Disposable Bailer), Extraction Port, Dedicated Tubing, Other:_____

10.3 (Gals.) X	3	= 30.9 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1024	64.3	6.93	489	14	10.3	odor
1026	64.6	6.85	477	295	20.6	
1028	64.6	6.78	487	674	30.9	

Did well dewater? Yes (No) Gallons actually evacuated: 30.9

Sampling Date: 4/25/11 Sampling Time: 1035 Depth to Water: 17.16

Sample I.D.: S-5 Laboratory: (Test America) Other_____

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

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:)	0.95	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): (Pre-purge:)	-109	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: WW, (IW)	Date: 4/25/11
Well I.D.: S-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 35.02	Depth to Water (DTW): 17.73
Depth to Free Product: NO PRODUCT DETECTED	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]: 21.19	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (X) Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: ____

11.3 (Gals.) X	3	= 33.9 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
1050	63.7	6.74	791	221	11.3	STRONG ODOR
1053	64.7	6.62	762	82	22.6	" "
1055	64.8	6.66	760	39	34.0	" "

Did well dewater? Yes (No) Gallons actually evacuated: 34.0

Sampling Date: 4/25/11 Sampling Time: 1100 Depth to Water: 20.88

Sample I.D.: S-6 Laboratory: (Test America) Other____

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

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):	0.76 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	(Pre-purge):	-112 mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8TH STREET, OAKLAND, CA
Sampler: WW, (IW)	Date: 4/25/11
Well I.D.: S-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 28.85	Depth to Water (DTW): 21.26
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]: 22.78	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

5.0 (Gals.) X 3 = 15.0 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 (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1119	66.2	6.97	516	624	5.0	ODOR
1120	67.9	6.62	442	71000	10.0	" "
1122	67.5	6.60	448	71000	15.0	" "

Did well dewater? Yes (No) Gallons actually evacuated: 15.0

Sampling Date: 4/25/11 Sampling Time: 1125 Depth to Water: 22.60

Sample I.D.: S-8 Laboratory: (Test America) Other_____

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

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:)	1.78 mg/L	Post-purge:		mg/L
O.R.P. (if req'd): (Pre-purge:)	-12 mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8TH STREET, OAKLAND, CA
Sampler: WW, IW	Date: 4/25/11
Well I.D.: S-9	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.62	Depth to Water (DTW): 20.39
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]: 22.20	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; ~~Electric Submersible~~; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

6.0 (Gals.) X 3 = 18.0 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1112	64.8	7.20	384	69	6	
1113	66.0	6.90	396	25	12	
1114	66.6	6.70	435	24	18	

Did well dewater? Yes (No) Gallons actually evacuated: 18

Sampling Date: 4/25/11 Sampling Time: 1120 Depth to Water: 22.20

Sample I.D.: S-9 Laboratory: (Test America) Other ____

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

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:	0.62 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	98 mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: WW, (IW)	Date: 4/25/11
Well I.D.: S-10	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 35.75	Depth to Water (DTW): 21.87
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]: 24.65	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

9.1 (Gals.) X	3	= 27.3 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1139	67.3	7.08	306	103	9.1	STRONG ODOR
1142	67.7	6.76	369	60	18.2	" "
1144	68.0	6.80	370	72	27.3	" "

Did well dewater? Yes (No) Gallons actually evacuated: 27.3

Sampling Date: 4/25/11 Sampling Time: 1150 Depth to Water: 24.60

Sample I.D.: S-10 Laboratory: (Test America) Other_____

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

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: 1.32 mg/L	Post-purge:	mg/L	
O.R.P. (if req'd):	Pre-purge: 21 mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: WW, IW	Date: 4/25/11
Well I.D.: S-12	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 34.16	Depth to Water (DTW): 22.53
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]: 24.86	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; ~~Electric Submersible~~; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other:____

7.6 (Gals.) X 3 = 23.8 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
1048	64.7	7.78	553	263	7.6	
1050	66.9	7.25	523	222	15.2	
1051	67.6	7.14	531	151	23.8	

Did well dewater? Yes (No) Gallons actually evacuated: 23.8

Sampling Date: 4/25/11 Sampling Time: 1100 Depth to Water: 24.55

Sample I.D.: S-12 Laboratory: (Test America) Other____

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

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):	0.28 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	(Pre-purge):	196 mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: (WW), IW	Date: 4/25/11
Well I.D.: S-13	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 32.30	Depth to Water (DTW): 21.15
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]: 23.38	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; ~~Electric Submersible~~; Waterra Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

7.2 (Gals.) X	3	= 21.6 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or ~~µS~~)	Turbidity (NTUs)	Gals. Removed	Observations
1220	67.0	5.38	2206	107	7.2	
1222	68.0	5.39	2485	87	14.4	
1224	68.6	5.19	2733	60	21.6	

Did well dewater? Yes (No) Gallons actually evacuated: 21.6

Sampling Date: 4/25/11 Sampling Time: 1230 Depth to Water: 23.38

Sample I.D.: S-13 Laboratory: (Test America) Other_____

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

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):	0.19 mg/L	Post-purge:		mg/L
O.R.P. (if req'd):	(Pre-purge):	69 mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: WW, (EW)	Date: 4/25/11
Well I.D.: S-14R	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 34.22	Depth to Water (DTW): 20.80
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]: 23.49	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

8.8 (Gals.) X	3	= 26.4 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1229	68.2	6.83	521	47	9.0	ODOR
1232	68.4	6.71	539	121	18.0	" "
1234	68.7	6.75	544	115	27.0	" "

Did well dewater? Yes (No) Gallons actually evacuated: 27.0

Sampling Date: 4/25/11 Sampling Time: 1245 Depth to Water: 23.40

Sample I.D.: S-14R Laboratory: (Test America) Other_____

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

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:	0.81	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	-37	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: (WW), IW	Date: 4/25/11
Well I.D.: S-17	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 33.36	Depth to Water (DTW): 21.44
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]: 23.82	

Purge Method: (Bailer) Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

1.9 (Gals.) X 3 = 5.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1142	65.0	6.55	1166	>1000	1.9	
1146	66.7	6.36	1234	>1000	3.8	
1149	67.7	6.40	1341	>1000	5.7	

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Date: 4/25/11 Sampling Time: 1155 Depth to Water: 21.77

Sample I.D.: S-17 Laboratory: (Test America) Other_____

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

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:	0.23 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	82 mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: (WW), IW	Date: 4/25/11
Well I.D.: S-18	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 32.99	Depth to Water (DTW): 21.00
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]: 23.40	

Purge Method: (Bailer) Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

1.9 (Gals.) X	3	= 5.7 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
1201	66.4	5.25	3198	793	1.9	odor
1204	67.2	4.86	3299	>1000	3.8	"
1207	68.2	4.66	3277	>1000	5.7	"

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Date: 4/25/11 Sampling Time: 1215 Depth to Water: 21.40

Sample I.D.: S-18 Laboratory: (Test America) Other_____

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

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:	~~0.52~~ 0.52	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	85	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: WW, IW	Date: 4/25/11
Well I.D.: S-19	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 34.47	Depth to Water (DTW): 20.42
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]: 23.23	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

9.1 (Gals.) X	3	= 27.3 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1128	65.9	6.94	854	47	9.1	
1130	66.7	6.93	758	50	18.2	
1132	67.4	6.94	715	45	27.3	

Did well dewater? Yes (No) Gallons actually evacuated: 27.3

Sampling Date: 4/25/11 Sampling Time: 1140 Depth to Water: 23.23

Sample I.D.: S-19 Laboratory: (Test America) Other_____

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

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):	0.25	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	(Pre-purge):	115	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: (WW), IW	Date: 4/25/11
Well I.D.: S-20	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 24.50	Depth to Water (DTW): 20.60
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]: 23.38	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; ~~Electric Submersible~~; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: ~~Bailer~~; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

9.0 (Gals.) X	3	= 27.0 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 ~~µS~~)	Turbidity (NTUs)	Gals. Removed	Observations
1236	66.8	5.07	6366	80	9	odor
1238	67.4	4.94	6973	60	18	"
1240	67.8	4.74	7409	32	27	"

Did well dewater? Yes (No) Gallons actually evacuated: 27

Sampling Date: 4/25/11 Sampling Time: 1245 Depth to Water: 22.64

Sample I.D.: S-20 Laboratory: (Test America) Other_____

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

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:	0.43 mg/L	Post-purge:		mg/L
O.R.P. (if req'd):	Pre-purge:	156 mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: (WW), IW	Date: 4/25/11
Well I.D.: S-21A	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 26.39	Depth to Water (DTW): 21.71
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]: 22.65	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; ~~Electric Submersible~~ (circled); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

3.0 (Gals.) X	3	=	9.0 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 (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1356	60.4	4.40	6,696	209	3.0	
1357	WELL DEWATERED @ 4.0		GALLONS		4.0	
1410	60.8	4.33	7198	286	GRAB	

Did well dewater? (Yes) No Gallons actually evacuated: 4.0

Sampling Date: 4/25/11 Sampling Time: 1410 Depth to Water: 22.51

Sample I.D.: S-21A Laboratory: (Test America) Other_____

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

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:)	0.36 mg/L	Post-purge:		mg/L
O.R.P. (if req'd): (Pre-purge:)	336 mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: WW, (IW)	Date: 4/25/11
Well I.D.: S-21B	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 39.10	Depth to Water (DTW): 21.86
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]: 25.31	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

11.3 (Gals.) X	3	= 33.9 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
1204	68.4	7.21	1947	46	11.3	ODOR
1205	WELL DEWATERED @ 12.5			GALLONS.	12.5	" "
1220	68.9	7.46	1360	54	GRAB	

Did well dewater? (Yes) No Gallons actually evacuated: 12.5

Sampling Date: 4/25/11 Sampling Time: 1220 Depth to Water: WATER) 25.25

Sample I.D.: S-21B Laboratory: (Test America) Other_____

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

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):	1.43 mg/L	Post-purge:		mg/L
O.R.P. (if req'd):	(Pre-purge):	72 mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: WW, (IW)	Date: 4/25/11
Well I.D.: S-22A	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 26.30	Depth to Water (DTW): 21.37
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]: 22.36	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; ~~Electric Submersible~~; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: ~~Bailer~~; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

3.2 (Gals.) X	3	=	9.6 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1330	70.1	3.55	7502	229	3.2	
1337	WELL DEWATERED @ 5.0			GALLONS	5.0 ~~6.4~~ (W)	
1350	69.4	3.55	8879	310	GRAB	

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

Sampling Date: 4/25/11 Sampling Time: 1350 Depth to Water: 22.08 (WATER)

Sample I.D.: S-22A Laboratory: (Test America) Other_____

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

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:	0.40 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	506 mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: WW, (EW)	Date: 4/25/11
Well I.D.: S-22B	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD): 39.61	Depth to Water (DTW): 21.38
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]: 25.03	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

11.9 (Gals.) X	3	=	35.7 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1310	68.7	4.57	918	68	12.0	ODOR
1312	69.1	4.58	732	30	24.0	" "
1315	69.0	4.62	726	26	36.0	" "

Did well dewater? Yes (No) Gallons actually evacuated: 36.0

Sampling Date: 4/25/11 Sampling Time: 1320 Depth to Water: 24.80

Sample I.D.: S-22B Laboratory: (Test America) Other_____

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

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):	1.37 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	(Pre-purge):	416 mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110425-WW1	Site: 461 8th STREET, OAKLAND, CA
Sampler: WW, (IW)	Date: 4/25/11
Well I.D.: S-23	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 34.47	Depth to Water (DTW): 21.62
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]: 24.19	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

8.4 (Gals.) X	3	= ~~24~~ 25.2 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
1252	68.1	4.45	3042	176	8.4	STRONG ODOR
1254	68.9	4.31	3031	436	16.8	" "
1256	69.3	4.29	3022	119	25.2	" "

Did well dewater? Yes (No) Gallons actually evacuated: 25.2

Sampling Date: 4/25/11 Sampling Time: 1300 Depth to Water: 23.65

Sample I.D.: S-23 Laboratory: (Test America) Other_____

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

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:)	0.96	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): (Pre-purge:)	321	mV	Post-purge:	mV

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 461 8th STREET, OAKLAND, CA Date 4/25/11

Job Number 110425-WW1 Technician WW, IW Page 1 of 2

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-4			X						BELOW GRADE
S-5	X	X							VERY HEAVY SEWER GRATING (2 PERSONS REQUIRED)
S-6									6" NON SECURABLE L.D.
S-8	X	X							
S-9	X	X							
S-10	X	X							
S-12	X								NO TAG
S-13	X								NO TAG
S-14R	X	X							
S-17	X	X							
S-18	X	X							
S-19	X	X							
S-20	X	X							
S-21A	X	X							
S-21B	X	X							
S-22A	X	X							
S-22B	X	X							

*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:

SHELL WELLHEAD INSPECTION FORM
(FOR SAMPLE TECHNICIAN)

Site Address 461 8TH STREET, OAKLAND, CA Date 4/25/11

Job Number 110425-WW1 Technician WW, IW Page 2 of 2

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-23	X	X							

*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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

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

Project: 461 8th St., Oakland, CA

Sampled: 04/25/11
Received: 04/27/11
Issued: 05/11/11 16:59

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(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IUD2577-01	S-5	Water
IUD2577-02	S-6	Water
IUD2577-03	S-8	Water
IUD2577-04	S-9	Water
IUD2577-05	S-10	Water
IUD2577-06	S-12	Water
IUD2577-07	S-13	Water
IUD2577-08	S-14R	Water
IUD2577-09	S-17	Water
IUD2577-10	S-18	Water
IUD2577-11	S-19	Water
IUD2577-12	S-20	Water
IUD2577-13	S-21A	Water
IUD2577-14	S-21B	Water
IUD2577-15	S-22A	Water
IUD2577-16	S-22B	Water
IUD2577-17	S-23	Water

Reviewed By:

Philip Sanelle

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: 461 8th St., Oakland, CA
Report Number: IUD2577

Sampled: 04/25/11
Received: 04/27/11

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: IUD2577-01 (S-5 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	1000	**70000**	20	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*110 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*101 %*				
Sample ID: IUD2577-02 (S-6 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	2500	**23000**	50	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Sample ID: IUD2577-03 (S-8 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	50	ND	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Sample ID: IUD2577-04 (S-9 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	50	**590**	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				
Sample ID: IUD2577-05 (S-10 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	50	**55**	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*110 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Sample ID: IUD2577-06 (S-12 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	50	ND	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*109 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				

TestAmerica Irvine

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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: 461 8th St., Oakland, CA
Report Number: IUD2577

Sampled: 04/25/11
Received: 04/27/11

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: IUD2577-07 (S-13 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0192	500	**6000**	10	5/3/2011	5/3/2011	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Sample ID: IUD2577-08 (S-14R - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	50	**860**	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*107 %*				
Surrogate: Toluene-d8 (80-120%)				*110 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				
Sample ID: IUD2577-09 (S-17 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0192	100	**2000**	2	5/3/2011	5/3/2011	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Sample ID: IUD2577-10 (S-18 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0192	500	**13000**	10	5/3/2011	5/3/2011	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				
Sample ID: IUD2577-11 (S-19 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	100	**2100**	2	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Sample ID: IUD2577-12 (S-20 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0228	5000	**41000**	100	5/3/2011	5/4/2011	
Surrogate: Dibromofluoromethane (80-120%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 461 8th St., Oakland, CA
Report Number: IUD2577

Sampled: 04/25/11
Received: 04/27/11

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: IUD2577-13 (S-21A - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0228	1200	**22000**	25	5/3/2011	5/4/2011	
Surrogate: Dibromofluoromethane (80-120%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Sample ID: IUD2577-14 (S-21B - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	50	**250**	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				
Sample ID: IUD2577-15 (S-22A - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0404	2500	**23000**	50	5/4/2011	5/4/2011	
Surrogate: Dibromofluoromethane (80-120%)				*92 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				
Sample ID: IUD2577-16 (S-22B - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0060	50	ND	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				
Sample ID: IUD2577-17 (S-23 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0047	50	**1300**	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Project ID: 461 8th St., Oakland, CA
Report Number: IUD2577

Sampled: 04/25/11
Received: 04/27/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUD2577-01 (S-5 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	10	**380**	20	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	10	**720**	20	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	10	**440**	20	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	20	**1200**	20	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*101 %*				
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*110 %*				
Sample ID: IUD2577-02 (S-6 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	25	**7800**	50	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	25	**960**	50	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	25	**3500**	50	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	50	**3000**	50	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Surrogate: Dibromofluoromethane (80-120%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Sample ID: IUD2577-03 (S-8 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	0.50	**1.1**	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	0.50	ND	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	0.50	ND	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	1.0	ND	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Surrogate: Dibromofluoromethane (80-120%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				

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Project ID: 461 8th St., Oakland, CA
Report Number: IUD2577

Sampled: 04/25/11
Received: 04/27/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUD2577-04 (S-9 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	0.50	**120**	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	0.50	**29**	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	0.50	**9.1**	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	1.0	**77**	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Sample ID: IUD2577-05 (S-10 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	0.50	**0.51**	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	0.50	**2.9**	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	0.50	ND	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	1.0	ND	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*110 %*				
Sample ID: IUD2577-06 (S-12 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	0.50	**0.82**	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	0.50	**1.7**	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	0.50	ND	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	1.0	ND	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Surrogate: Dibromofluoromethane (80-120%)				*109 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				

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Project ID: 461 8th St., Oakland, CA
Report Number: IUD2577

Sampled: 04/25/11
Received: 04/27/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUD2577-07 (S-13 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0192	5.0	**600**	10	5/3/2011	5/3/2011	
Ethylbenzene	EPA 8260B	11E0192	5.0	**270**	10	5/3/2011	5/3/2011	
Xylenes, Total	EPA 8260B	11E0192	10	**1300**	10	5/3/2011	5/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Sample ID: IUD2577-07RE1 (S-13 - Water)								
Reporting Units: ug/l								
Toluene	EPA 8260B	11E0228	10	**1800**	20	5/3/2011	5/4/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Surrogate: Dibromofluoromethane (80-120%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Sample ID: IUD2577-08 (S-14R - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	0.50	**100**	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	0.50	**41**	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	0.50	**59**	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	1.0	**97**	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				
Surrogate: Dibromofluoromethane (80-120%)				*107 %*				
Surrogate: Toluene-d8 (80-120%)				*110 %*				
Sample ID: IUD2577-09 (S-17 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0192	1.0	**150**	2	5/3/2011	5/3/2011	
Ethylbenzene	EPA 8260B	11E0192	1.0	**77**	2	5/3/2011	5/3/2011	
Toluene	EPA 8260B	11E0192	1.0	**71**	2	5/3/2011	5/3/2011	
Xylenes, Total	EPA 8260B	11E0192	2.0	**210**	2	5/3/2011	5/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				

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Attention: Lorin King

Project ID: 461 8th St., Oakland, CA
Report Number: IUD2577

Sampled: 04/25/11
Received: 04/27/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUD2577-10 (S-18 - Water)								
Reporting Units: ug/l								
Ethylbenzene	EPA 8260B	11E0192	5.0	**470**	10	5/3/2011	5/3/2011	
Xylenes, Total	EPA 8260B	11E0192	10	**2300**	10	5/3/2011	5/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Sample ID: IUD2577-10RE1 (S-18 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0228	10	**2100**	20	5/3/2011	5/4/2011	
Toluene	EPA 8260B	11E0228	10	**2000**	20	5/3/2011	5/4/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Surrogate: Dibromofluoromethane (80-120%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Sample ID: IUD2577-11 (S-19 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	1.0	**290**	2	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	1.0	**140**	2	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	1.0	**360**	2	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	2.0	**470**	2	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Surrogate: Dibromofluoromethane (80-120%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Sample ID: IUD2577-12 (S-20 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0228	50	**6600**	100	5/3/2011	5/4/2011	
Ethylbenzene	EPA 8260B	11E0228	50	**2000**	100	5/3/2011	5/4/2011	
Toluene	EPA 8260B	11E0228	50	**11000**	100	5/3/2011	5/4/2011	
Xylenes, Total	EPA 8260B	11E0228	100	**9800**	100	5/3/2011	5/4/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Surrogate: Dibromofluoromethane (80-120%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				

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Project ID: 461 8th St., Oakland, CA

Report Number: IUD2577

Sampled: 04/25/11
Received: 04/27/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUD2577-13 (S-21A - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0228	12	**3800**	25	5/3/2011	5/4/2011	
Ethylbenzene	EPA 8260B	11E0228	12	**960**	25	5/3/2011	5/4/2011	
Toluene	EPA 8260B	11E0228	12	**4000**	25	5/3/2011	5/4/2011	
Xylenes, Total	EPA 8260B	11E0228	25	**4800**	25	5/3/2011	5/4/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Surrogate: Dibromofluoromethane (80-120%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Sample ID: IUD2577-14 (S-21B - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	0.50	ND	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	0.50	**4.6**	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	0.50	**1.9**	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	1.0	**16**	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Sample ID: IUD2577-15 (S-22A - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0404	25	**2600**	50	5/4/2011	5/4/2011	
Ethylbenzene	EPA 8260B	11E0404	25	**1200**	50	5/4/2011	5/4/2011	
Toluene	EPA 8260B	11E0404	25	**5500**	50	5/4/2011	5/4/2011	
Xylenes, Total	EPA 8260B	11E0404	50	**6200**	50	5/4/2011	5/4/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				
Surrogate: Dibromofluoromethane (80-120%)				*92 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUD2577-16 (S-22B - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0060	0.50	ND	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0060	0.50	ND	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0060	0.50	**0.62**	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0060	1.0	**1.1**	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				
Surrogate: Dibromofluoromethane (80-120%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Sample ID: IUD2577-17 (S-23 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0047	0.50	**53**	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0047	0.50	**81**	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0047	0.50	**110**	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0047	1.0	**400**	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Surrogate: Dibromofluoromethane (80-120%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				

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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: 11E0047 Extracted: 05/02/11										
Blank Analyzed: 05/02/2011 (11E0047-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
LCS Analyzed: 05/02/2011 (11E0047-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	435	50	ug/l	500		87	55-130			
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Matrix Spike Analyzed: 05/02/2011 (11E0047-MS1)					**Source: IUD2425-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1190	50	ug/l	1720	ND	69	50-145			
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Matrix Spike Dup Analyzed: 05/02/2011 (11E0047-MSD1)					**Source: IUD2425-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1130	50	ug/l	1720	ND	66	50-145	5	20	
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.6*		*ug/l*	*25.0*		*99*	*80-120*			
Batch: 11E0060 Extracted: 05/02/11										
Blank Analyzed: 05/02/2011 (11E0060-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*22.9*		*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.4*		*ug/l*	*25.0*		*90*	*80-120*			

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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: 11E0060 Extracted: 05/02/11										
LCS Analyzed: 05/02/2011 (11E0060-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	490	50	ug/l	500		98	55-130			
Surrogate: Dibromofluoromethane	*24.1*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.4*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Analyzed: 05/02/2011 (11E0060-MS1)					**Source: IUD2577-03**					
Volatile Fuel Hydrocarbons (C4-C12)	1270	50	ug/l	1720	43.2	71	50-145			
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*26.6*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Matrix Spike Dup Analyzed: 05/02/2011 (11E0060-MSD1)					**Source: IUD2577-03**					
Volatile Fuel Hydrocarbons (C4-C12)	1230	50	ug/l	1720	43.2	69	50-145	4	20	
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-120*			
Batch: 11E0192 Extracted: 05/03/11										
Blank Analyzed: 05/03/2011 (11E0192-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
LCS Analyzed: 05/03/2011 (11E0192-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	602	50	ug/l	500		120	55-130			
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			

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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: 11E0192 Extracted: 05/03/11										
Matrix Spike Analyzed: 05/03/2011 (11E0192-MS1)					**Source: IUD2258-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1100	50	ug/l	1720	ND	64	50-145			
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Dup Analyzed: 05/03/2011 (11E0192-MSD1)					**Source: IUD2258-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1180	50	ug/l	1720	ND	68	50-145	7	20	
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*80-120*			
Batch: 11E0228 Extracted: 05/03/11										
Blank Analyzed: 05/03/2011 (11E0228-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Toluene-d8	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
LCS Analyzed: 05/03/2011 (11E0228-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	405	50	ug/l	500		81	55-130			
Surrogate: Dibromofluoromethane	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*99*	*80-120*			
Matrix Spike Analyzed: 05/03/2011 (11E0228-MS1)					**Source: IUD2936-09**					
Volatile Fuel Hydrocarbons (C4-C12)	1170	50	ug/l	1720	ND	68	50-145			
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			

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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: 11E0228 Extracted: 05/03/11										
Matrix Spike Dup Analyzed: 05/03/2011 (11E0228-MSD1)					**Source: IUD2936-09**					
Volatile Fuel Hydrocarbons (C4-C12)	1220	50	ug/l	1720	ND	71	50-145	4	20	
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Batch: 11E0404 Extracted: 05/04/11										
Blank Analyzed: 05/04/2011 (11E0404-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*26.7*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*		*ug/l*	*25.0*		*93*	*80-120*			
LCS Analyzed: 05/04/2011 (11E0404-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	529	50	ug/l	500		106	55-130			
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Analyzed: 05/04/2011 (11E0404-MS1)					**Source: IUD2936-10**					
Volatile Fuel Hydrocarbons (C4-C12)	1230	50	ug/l	1720	60.8	68	50-145			
Surrogate: Dibromofluoromethane	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*		*ug/l*	*25.0*		*95*	*80-120*			
Matrix Spike Dup Analyzed: 05/04/2011 (11E0404-MSD1)					**Source: IUD2936-10**					
Volatile Fuel Hydrocarbons (C4-C12)	1250	50	ug/l	1720	60.8	69	50-145	2	20	
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*97*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0047 Extracted: 05/02/11										
Blank Analyzed: 05/02/2011 (11E0047-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							
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
LCS Analyzed: 05/02/2011 (11E0047-BS1)										
Benzene	26.8	0.50	ug/l	25.0		107	70-120			
Ethylbenzene	27.5	0.50	ug/l	25.0		110	75-125			
Toluene	26.6	0.50	ug/l	25.0		107	70-120			
m,p-Xylenes	54.3	1.0	ug/l	50.0		109	75-125			
o-Xylene	25.5	0.50	ug/l	25.0		102	75-125			
Xylenes, Total	79.8	1.0	ug/l	75.0		106	70-125			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Toluene-d8	*26.5*		*ug/l*	*25.0*		*106*	*80-120*			
Matrix Spike Analyzed: 05/02/2011 (11E0047-MS1)					**Source: IUD2425-01**					
Benzene	27.7	0.50	ug/l	25.0	ND	111	65-125			
Ethylbenzene	27.6	0.50	ug/l	25.0	ND	111	65-130			
Toluene	28.4	0.50	ug/l	25.0	ND	114	70-125			
m,p-Xylenes	57.0	1.0	ug/l	50.0	ND	114	65-130			
o-Xylene	26.6	0.50	ug/l	25.0	ND	107	65-125			
Xylenes, Total	83.7	1.0	ug/l	75.0	ND	112	60-130			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			

TestAmerica Irvine

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

Project ID: 461 8th St., Oakland, CA

Report Number: IUD2577

Sampled: 04/25/11
Received: 04/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0047 Extracted: 05/02/11										
Matrix Spike Dup Analyzed: 05/02/2011 (11E0047-MSD1)					**Source: IUD2425-01**					
Benzene	26.4	0.50	ug/l	25.0	ND	106	65-125	5	20	
Ethylbenzene	26.9	0.50	ug/l	25.0	ND	108	65-130	3	20	
Toluene	27.0	0.50	ug/l	25.0	ND	108	70-125	5	20	
m,p-Xylenes	54.5	1.0	ug/l	50.0	ND	109	65-130	5	25	
o-Xylene	26.4	0.50	ug/l	25.0	ND	105	65-125	1	20	
Xylenes, Total	80.8	1.0	ug/l	75.0	ND	108	60-130	3	20	
Surrogate: 4-Bromofluorobenzene	*24.6*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Batch: 11E0060 Extracted: 05/02/11										
Blank Analyzed: 05/02/2011 (11E0060-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							
Surrogate: 4-Bromofluorobenzene	*22.4*		*ug/l*	*25.0*		*90*	*80-120*			
Surrogate: Dibromofluoromethane	*22.9*		*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
LCS Analyzed: 05/02/2011 (11E0060-BS1)										
Benzene	27.0	0.50	ug/l	25.0		108	70-120			
Ethylbenzene	29.0	0.50	ug/l	25.0		116	75-125			
Toluene	27.9	0.50	ug/l	25.0		112	70-120			
m,p-Xylenes	59.3	1.0	ug/l	50.0		119	75-125			
o-Xylene	28.1	0.50	ug/l	25.0		112	75-125			
Xylenes, Total	87.4	1.0	ug/l	75.0		116	70-125			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Dibromofluoromethane	*23.4*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0060 Extracted: 05/02/11										
Matrix Spike Analyzed: 05/02/2011 (11E0060-MS1)					**Source: IUD2577-03**					
Benzene	27.2	0.50	ug/l	25.0	1.07	105	65-125			
Ethylbenzene	26.9	0.50	ug/l	25.0	ND	108	65-130			
Toluene	27.2	0.50	ug/l	25.0	ND	109	70-125			
m,p-Xylenes	55.7	1.0	ug/l	50.0	ND	111	65-130			
o-Xylene	26.4	0.50	ug/l	25.0	ND	105	65-125			
Xylenes, Total	82.1	1.0	ug/l	75.0	ND	109	60-130			
Surrogate: 4-Bromofluorobenzene	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*26.6*		*ug/l*	*25.0*		*107*	*80-120*			
Matrix Spike Dup Analyzed: 05/02/2011 (11E0060-MSD1)					**Source: IUD2577-03**					
Benzene	26.5	0.50	ug/l	25.0	1.07	102	65-125	3	20	
Ethylbenzene	25.5	0.50	ug/l	25.0	ND	102	65-130	5	20	
Toluene	25.9	0.50	ug/l	25.0	ND	104	70-125	5	20	
m,p-Xylenes	51.0	1.0	ug/l	50.0	ND	102	65-130	9	25	
o-Xylene	24.8	0.50	ug/l	25.0	ND	99	65-125	6	20	
Xylenes, Total	75.8	1.0	ug/l	75.0	ND	101	60-130	8	20	
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Batch: 11E0192 Extracted: 05/03/11										
Blank Analyzed: 05/03/2011 (11E0192-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							
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0192 Extracted: 05/03/11										
LCS Analyzed: 05/03/2011 (11E0192-BS1)										
Benzene	25.4	0.50	ug/l	25.0		101	70-120			
Ethylbenzene	25.1	0.50	ug/l	25.0		100	75-125			
Toluene	26.1	0.50	ug/l	25.0		104	70-120			
m,p-Xylenes	49.3	1.0	ug/l	50.0		99	75-125			
o-Xylene	26.0	0.50	ug/l	25.0		104	75-125			
Xylenes, Total	75.3	1.0	ug/l	75.0		100	70-125			
Surrogate: 4-Bromofluorobenzene	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Dibromofluoromethane	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 05/03/2011 (11E0192-MS1)					**Source: IUD2258-01**					
Benzene	22.7	0.50	ug/l	25.0	ND	91	65-125			
Ethylbenzene	23.4	0.50	ug/l	25.0	ND	94	65-130			
Toluene	23.7	0.50	ug/l	25.0	ND	95	70-125			
m,p-Xylenes	46.0	1.0	ug/l	50.0	ND	92	65-130			
o-Xylene	23.4	0.50	ug/l	25.0	ND	94	65-125			
Xylenes, Total	69.4	1.0	ug/l	75.0	ND	93	60-130			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Matrix Spike Dup Analyzed: 05/03/2011 (11E0192-MSD1)					**Source: IUD2258-01**					
Benzene	24.6	0.50	ug/l	25.0	ND	98	65-125	8	20	
Ethylbenzene	24.5	0.50	ug/l	25.0	ND	98	65-130	5	20	
Toluene	25.2	0.50	ug/l	25.0	ND	101	70-125	6	20	
m,p-Xylenes	47.9	1.0	ug/l	50.0	ND	96	65-130	4	25	
o-Xylene	24.9	0.50	ug/l	25.0	ND	99	65-125	6	20	
Xylenes, Total	72.8	1.0	ug/l	75.0	ND	97	60-130	5	20	
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			

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Sampled: 04/25/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0228 Extracted: 05/03/11										
Blank Analyzed: 05/03/2011 (11E0228-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							
Surrogate: 4-Bromofluorobenzene	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Toluene-d8	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
LCS Analyzed: 05/03/2011 (11E0228-BS1)										
Benzene	26.4	0.50	ug/l	25.0		106	70-120			
Ethylbenzene	26.6	0.50	ug/l	25.0		106	75-125			
Toluene	26.8	0.50	ug/l	25.0		107	70-120			
m,p-Xylenes	54.9	1.0	ug/l	50.0		110	75-125			
o-Xylene	26.6	0.50	ug/l	25.0		106	75-125			
Xylenes, Total	81.4	1.0	ug/l	75.0		109	70-125			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*26.4*		*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 05/03/2011 (11E0228-MS1)					**Source: IUD2936-09**					
Benzene	26.6	0.50	ug/l	25.0	ND	107	65-125			
Ethylbenzene	27.2	0.50	ug/l	25.0	ND	109	65-130			
Toluene	27.7	0.50	ug/l	25.0	ND	111	70-125			
m,p-Xylenes	55.2	1.0	ug/l	50.0	ND	110	65-130			
o-Xylene	26.2	0.50	ug/l	25.0	ND	105	65-125			
Xylenes, Total	81.4	1.0	ug/l	75.0	ND	109	60-130			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			

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Received: 04/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0228 Extracted: 05/03/11										
Matrix Spike Dup Analyzed: 05/03/2011 (11E0228-MSD1)					**Source: IUD2936-09**					
Benzene	27.6	0.50	ug/l	25.0	ND	110	65-125	4	20	
Ethylbenzene	28.1	0.50	ug/l	25.0	ND	113	65-130	4	20	
Toluene	27.8	0.50	ug/l	25.0	ND	111	70-125	0.5	20	
m,p-Xylenes	57.6	1.0	ug/l	50.0	ND	115	65-130	4	25	
o-Xylene	27.2	0.50	ug/l	25.0	ND	109	65-125	4	20	
Xylenes, Total	84.8	1.0	ug/l	75.0	ND	113	60-130	4	20	
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Batch: 11E0404 Extracted: 05/04/11										
Blank Analyzed: 05/04/2011 (11E0404-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							
Surrogate: 4-Bromofluorobenzene	*23.4*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*26.7*		*ug/l*	*25.0*		*107*	*80-120*			
LCS Analyzed: 05/04/2011 (11E0404-BS1)										
Benzene	24.5	0.50	ug/l	25.0		98	70-120			
Ethylbenzene	25.0	0.50	ug/l	25.0		100	75-125			
Toluene	25.4	0.50	ug/l	25.0		102	70-120			
m,p-Xylenes	51.3	1.0	ug/l	50.0		103	75-125			
o-Xylene	25.0	0.50	ug/l	25.0		100	75-125			
Xylenes, Total	76.3	1.0	ug/l	75.0		102	70-125			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*26.7*		*ug/l*	*25.0*		*107*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0404 Extracted: 05/04/11										
Matrix Spike Analyzed: 05/04/2011 (11E0404-MS1)					**Source: IUD2936-10**					
Benzene	27.2	0.50	ug/l	25.0	2.07	101	65-125			
Ethylbenzene	27.0	0.50	ug/l	25.0	ND	108	65-130			
Toluene	26.3	0.50	ug/l	25.0	ND	105	70-125			
m,p-Xylenes	54.2	1.0	ug/l	50.0	ND	108	65-130			
o-Xylene	25.9	0.50	ug/l	25.0	ND	104	65-125			
Xylenes, Total	80.1	1.0	ug/l	75.0	ND	107	60-130			
Surrogate: 4-Bromofluorobenzene	*23.9*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Dibromofluoromethane	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 05/04/2011 (11E0404-MSD1)					**Source: IUD2936-10**					
Benzene	28.0	0.50	ug/l	25.0	2.07	104	65-125	3	20	
Ethylbenzene	27.0	0.50	ug/l	25.0	ND	108	65-130	0.2	20	
Toluene	27.1	0.50	ug/l	25.0	ND	108	70-125	3	20	
m,p-Xylenes	54.5	1.0	ug/l	50.0	ND	109	65-130	0.6	25	
o-Xylene	26.0	0.50	ug/l	25.0	ND	104	65-125	0.2	20	
Xylenes, Total	80.5	1.0	ug/l	75.0	ND	107	60-130	0.5	20	
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*105*	*80-120*			

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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 Volatile Fuel Hydrocarbons (C4-C12):

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

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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

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Project Manager

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name: Peter Schaefer 241501

INCIDENT # (ENV SERVICES): 97093399 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 4/25/11

PAGE: 1 of 2

PO #: 400-403497-3

SAP #:

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 461 8th St., Oakland

State: CA

GLOBAL ID NO.: T0600101263

ADDRESS: 1680 Rogers Avenue, San Jose, CA

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 110425-WW1

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: 310-995-4455 x 108

FAX: 310-637-5802

E-MAIL: lking@blainetech.com

SAMPLER NAME(S) (Print): WILLIAMS WORT / IAN WILLIAMS

LAB USE ONLY: IV02577

TURNAROUND TIME (CALENDAR DAYS):
- ☑ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Email invoice and copy of final report to Shell.Lab.Billing@craworld.com

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)		BTEX (5260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound:_____(8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)						Container PID Readings or Laboratory Notes
	S-5	4/25/11	1035	W	3					3	X				X															
	S-6		1100								X				X															
	S-8		1125								X				X															
	S-9		1120								X				X															
	S-10		1150								X				O															
	S-12		1100								X				O															UP 04-27-11 @ 1440
	S-13		1230								O				O															
	S-14R		1245								X				X															
	S-17		1155								X				X															
	S-18		1215								X				X															

Relinquished by: (Signature)	Received by: (Signature) SAMPLE CUSTODIAN	Date: 4/25/11	Time: 1600
Relinquished by: (Signature)	Received by: (Signature) (TARF)	Date: 4/26/11	Time: 0855
Relinquished by: (Signature) 04-26-11 1530	Received by: (Signature) 04/27/11 1100	Date: 04/26/11	Time: ~~0940~~ 1200

05/2/06 Revision

#27 AR10

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Peter Schaefer 241501

INCIDENT # (ENV SERVICES): 97093399

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 4/25/11

PAGE: 2 of 2

PO #: 40-40347373

SAP #:

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 461 8th St., Oakland

State: CA

GLOBAL ID NO.: T0600101263

ADDRESS: 1680 Rogers Avenue, San Jose, CA

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shelledf@craworld.com

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PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: 310-995-4455 x 108

FAX: 310-637-5802

E-MAIL: lking@blainetech.com

SAMPLER NAME(S) (Print): WILLIAM WONG, IAN WILLIAMS

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

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	S-19	4/25/11	1140	W	3					3	X				X																
	S-20		1245								X				X																
	S-21A		1410								X				X																
	S-21B		1220								X				X																
	S-22A		1350								X				X																
	S-22B		1330								X				X																
	S-23		1300		4						X				X																

TEMPERATURE ON RECEIPT C°: 0.7°

Relinquished by: (Signature)	Received by: (Signature)	Date: 4/25/11	Time: 1600
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/26/11	Time: 0855
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time: 1200

SAMPLE CUSTODIAN (TABLE)

Gerald Taylor 4-26-11 15:35

04/27/11 11:00

05/2/06 Revision