Transmittal

Date: November 9, 2015 Reference No.: 241501

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

Subject: Former Shell Service Station, 461 8th Street, Oakland, California

No. of Copies	Description/Title	Drawing No./ Document Ref.	Issue
1	Subsurface Investigation and Third Quarter 2015 Groundwater Monitoring Report		

Issued for: ☐ Your information ☒ As requested ☐ Construction ☐ Quotation
☐ Your approval/comments ☐ Returned to you ☐ For re-submission

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Remarks:
If you have any questions regarding the contents of this document, please call the GHD project manager Peter Schaefer at (510) 420-3319 or the Shell program manager Andrea Wing at (714) 713-1050.

Copy to: Andrea Wing, Shell Oil Products US

Leroy Griffin, Fire Prevention Bureau

Signature Land Advisors, Inc.
(property owners)

Completed by: Peter Schaefer Signed:
[Please Print]

Filing: Correspondence File

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

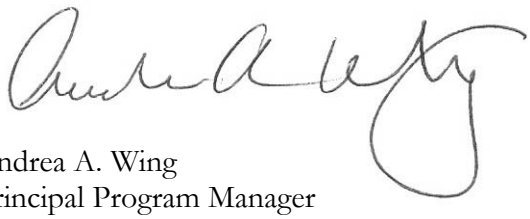
Re: 461 8th Street, Oakland, California
PlaNet Site ID USF04642
PlaNet Project ID 27481
ACEH Case No. RO0000343

Dear Mr. Wickham:

I am informed and believe that, based on a reasonably diligent inquiry undertaken by GHD on behalf of Equilon Enterprises LLC dba Shell Oil Products US, the information and/or recommendations contained in the attached document is true, and on that ground I declare under penalty of perjury in accordance with Water Code section 13267 that this statement is true and correct.

As always, please feel free to contact me directly at (714) 731-1050 with any questions or concerns.

Sincerely,
Shell Oil Products US



Andrea A. Wing
Principal Program Manager

Subsurface Investigation and Third Quarter 2015 Groundwater Monitoring Report

Former Shell Service Station
461 8th Street
Oakland, California

PlaNet Site ID	USF04642
PlaNet Project ID	27481
Agency No.	RO0000343

Shell Oil Products US

5900 Hollis Street Emeryville California 94608 USA

241501 | 15.04 | Report No 42 | November 9, 2015

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Appendices

1. Introduction

GHD Services Inc. (GHD) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent well installation and well destructions at the referenced Site. One off-Site well was installed and the on-Site wells and soil vapor probes were properly destroyed following the procedures detailed in GHD's August 31, 2015 *Subsurface Investigation Work Plan*, which was approved in Alameda County Environmental Health's September 1, 2015 letter to facilitate Site redevelopment. Proposed on-Site wells S-24 and S-25 will be installed at a later date concurrent with Site redevelopment.

The Site is currently a paved parking lot located at the southwestern corner of the intersection of 8th Street and Broadway in a primarily commercial area of Oakland, California (Figure 1). The former station layout included an underground storage tank complex and dispenser islands (Figure 2).

Redevelopment plans approved by the City of Oakland call for construction of a five-story building with a garage and commercial spaces on the ground floor and residential units on the upper floors. The approved building will be completed at or near current grade, with the exception of two bays of parking structures (car stackers) to be located in the western-central and southwestern portions of the Site (Figure 2), which will be installed to approximately 14 feet below grade (fbg).

A summary of previous work performed at the Site and additional background information is contained in GHD's August 31, 2015 work plan and is not repeated herein.

2. Subsurface Investigation and Groundwater Monitoring

2.1 Well Installation and Well and Vapor Probe Destructions

2.1.1 Permits

GHD obtained drilling permits from the Alameda County Public Works Agency (ACPWA) and encroachment, excavation, obstruction, and traffic control permits from the City of Oakland (Appendix A).

2.1.2 Field Dates

Well installation - September 14 and 15, 2015; well and soil vapor probe destructions - September 8, 9, and 10, 2015.

2.1.3 Drilling Company

Cascade Drilling, LP.

2.1.4 Personnel Present

California Professional Geologist Peter Schaefer directed the well installation. Geologists Nathan Diem and Belew Yifru directed the well and soil vapor probe destructions under the supervision of Peter Schaefer.

2.1.5 Drilling and Well and Vapor Probe Destruction Methods

Direct push (well boring soil sampling), hollow-stem auger (well installation), pressure grouting (well destruction), and air-knife (soil vapor probe destruction).

2.2 Well Installation

2.2.1 Number of Borings

One soil boring was drilled and converted to a groundwater monitoring well (S-26).

The boring and well specifications and soil types encountered are described on the boring log, presented as Appendix B. The well location is shown on Figure 2.

2.2.2 Boring Depth

35 feet below grade (fbg).

2.2.3 Groundwater Depth

Groundwater was first encountered at 26 fbg.

2.3 Well and Soil Vapor Probe Destructions

To prepare for proposed Site redevelopment, GHD properly destroyed 19 monitoring wells (S-8, S-9, S-10, S-12, S-13, S-14R, S-17 through S-20, S-21A, S-21B, S-22A, S-22B, S-23, IP-1, IP-2, IP-3, and OW-1) and 9 soil vapor probes (VP-2, VP-3, and VP-5 through VP-11).

The wells were pressure grouted and soil vapor probes VP-2, VP-3, and VP-5 through VP-11 were drilled out to their original depths. Soil vapor probes VP-4 and VP-12 are in the area of the proposed car stackers and will be completely removed during Site redevelopment excavation. Well boxes were left in place, as they will be removed during Site redevelopment.

2.4 Waste Disposal

Soil generated during field activities was temporarily stored on Site in 55-gallon drums, sampled, and profiled for disposal. On October 9, 2015, the soil was transported to American Integrated Services, Inc.'s Keller Canyon Landfill in Pittsburg, California for disposal. The waste disposal manifests are provided in Appendix C.

2.5 Well Development and Groundwater Sampling

Blaine Tech Services, Inc. (Blaine) developed well S-26 on September 20, 2015. On September 29, 2015 Blaine gauged and sampled the new well and existing wells S-5 and S-6 according to the modified monitoring program for this site. The laboratory analytical report is

presented in Appendix D. Blaine's field notes, presenting the well development data, are included in Appendix E.

3. Findings

3.1 Soil

The soil chemical analytical data from the borings are summarized in Table 1 and the total petroleum hydrocarbons as gasoline (TPHg) and benzene analytical results are presented on Figure 2. The laboratory analytical reports are presented in Appendix D.

Soil samples collected from boring S-26 contained up to 3.7 milligrams per kilogram (mg/kg) TPHg, 0.041 mg/kg benzene, 0.027 mg/kg toluene, 0.024 mg/kg ethylbenzene, and 0.13 mg/kg total xylenes. TPHg, benzene, ethylbenzene, toluene, and total xylenes concentrations were below San Francisco Bay Regional Water Quality Control Board environmental screening levels[1] for commercial land use where groundwater is not a source of drinking water.

3.2 Groundwater

No separate-phase hydrocarbons (SPHs) were measured or recovered from wells S-5 or S-6 during the September 29, 2015 monitoring event. Since no SPHs have been measured in Site wells since September 2014, quarterly SPH removal has been suspended. SPH removal data since November 2013 are presented in Table 3 and are summarized below.

SPH REMOVAL SUMMARY	
This Period (pounds)	Cumulative Removal (pounds)
0.00	25.38

A groundwater contour and chemical concentration map is presented on Figure 3 and groundwater data are presented in Table 2.

4. Conclusions and Recommendations

Well S-26 was installed during this investigation and will be gauged and sampled during fourth quarter 2015 along with the existing wells according to the established monitoring program for the Site. The Site is monitored quarterly and monitoring reports will be submitted following each event.

As stated above, proposed on-Site wells S-24 and S-25 will be installed concurrent with Site redevelopment.

[1] *User's Guide: Derivation and Application of Environmental Screening Levels,* RWQCB, Interim Final - 2013

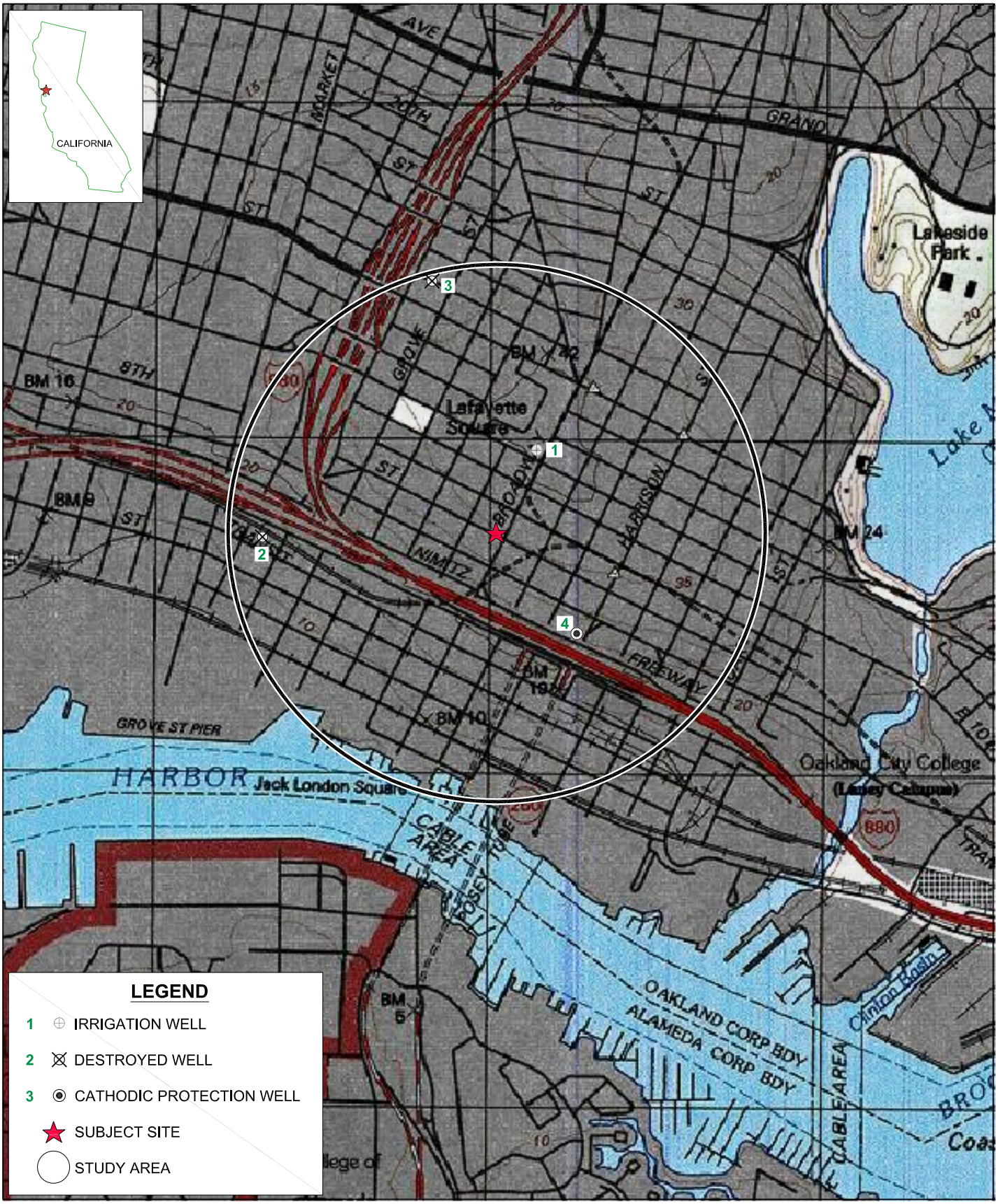
All of Which is Respectfully Submitted,

GHD Services Inc.

Peter Schaefer, CEG, CHG

PROFESSIONAL GEOLOGIST
PETER L SCHAEFER
NO. 5612
STATE OF CALIFORNIA

Diane M. Lundquist, P.E.



Source: TOPO! MAPS

0 660 1320ft

FORMER SHELL SERVICE STATION
461 8TH STREET
OAKLAND, CALIFORNIA

241501-15.03

Oct 12, 2015

VICINITY MAP

FIGURE 1

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EXPLANATION

- Proposed monitoring well location
- VP-12 — Soil vapor probe location; proposed for destruction by excavation
- B-27/ VP-4 — Soil boring/vapor probe location; proposed for destruction by excavation
- S-4 — Monitoring well location
- SVP-1 — Soil vapor probe location
- S-1 — Destroyed well location
- S-21B — Destroyed deeper monitoring well location
- IP-1 — Destroyed injection point
- OW-1 — Destroyed observation well location
- B-24/ VP-1 — Destroyed soil boring/vapor probe
- VP-5 — Destroyed soil vapor probe location

- BART line tunnel
- Storm drain line (STM)
- Water line (W)
- Sanitary sewer line (SAN)
- Telecommunications line (T)
- Gas line (G)
- Electrical line (E)
- Unknown utility line (?)
- Street light
- M.H. — Manhole
- C.B. — Catch basin
- FL = 16.50' — Flow line depth below ground surface

ID	Date	Depth	TPHg	Benzene
S-26	9/14/2015	5	<0.099	<0.00099
S-26	9/14/2015	10	<0.10	<0.0010
S-26	9/14/2015	15	<0.10	<0.0010
S-26	9/14/2015	20	<0.10	<0.0010
S-26	9/14/2015	25	3.7	0.041
S-26	9/14/2015	26	0.17	0.011
S-26	9/14/2015	30	<0.10	<0.0010
S-26	9/14/2015	34.5	<0.099	<0.00099

Notes:
Soil sample ID, date, depth in feet below grade, and concentrations in milligrams per kilogram
TPHg = Total petroleum hydrocarbons as gasoline
<X = Not detected at reporting limit X

ID	Date	Depth	TPHg	Benzene
S-26	9/14/2015	5	<0.099	<0.00099
S-26	9/14/2015	10	<0.10	<0.0010
S-26	9/14/2015	15	<0.10	<0.0010
S-26	9/14/2015	20	<0.10	<0.0010
S-26	9/14/2015	25	3.7	0.041
S-26	9/14/2015	26	0.17	0.011
S-26	9/14/2015	30	<0.10	<0.0010
S-26	9/14/2015	34.5	<0.099	<0.00099

0 10 30ft

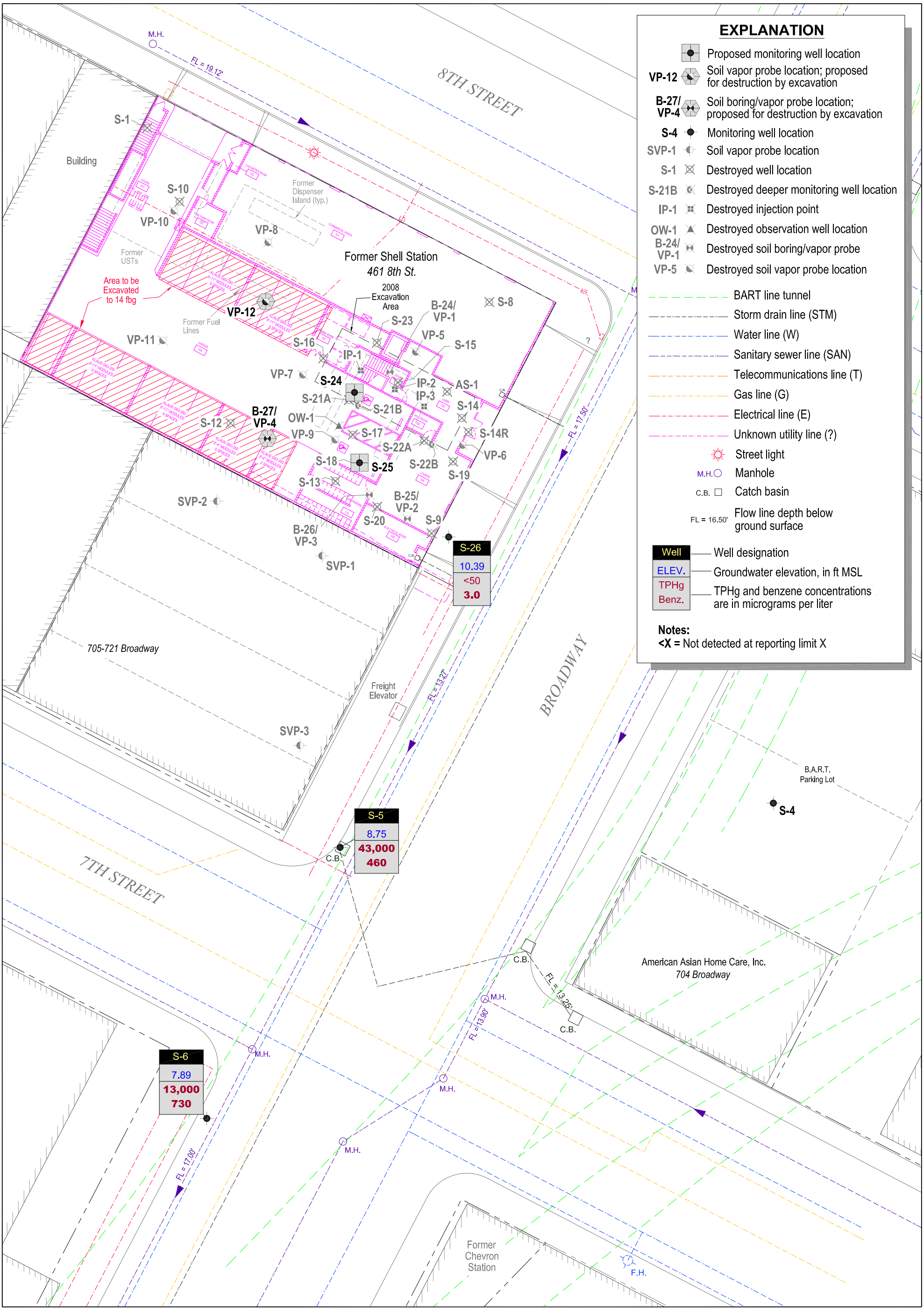
FORMER SHELL SERVICE STATION
461 8TH STREET
OAKLAND, CALIFORNIA

SOIL CHEMICAL CONCENTRATION MAP

241501-15.03
Oct 28, 2015

FIGURE 2

CAD File: I:\Shell\6-chars\2415-\241501-Oakland 461 8th St\241501-FIGURES\241501-42-FIGURES\241501-15.03(042)GN-EM002.dwg



0 10 30ft

FORMER SHELL SERVICE STATION
461 8TH STREET
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION AND CHEMICAL CONCENTRATION MAP - SEPTEMBER 29, 2015

241501-15.03
Oct 28, 2015

FIGURE 3

CAD File: I:\Shell\6-chars\2415-\241501-Oakland 461 8th St\241501-FIGURES\241501-42-FIGURES\241501-15.03(042)GN-EM003.dwg

Table 1

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
B1-5.0	07/06/1994	5	28 a	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B1-10.0	07/06/1994	10	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B2-5.0	07/06/1994	5	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B2-15.0	07/06/1994	15	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B2-20.0	07/06/1994	20	<2	<1	<0.0025	0.0028	<0.0025	0.003	---	---	---	---	---	---	---
B3-10.0	07/06/1994	10	50 a	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B3-15.0	07/06/1994	15	4.1	<1	<0.0025	<0.0025	<0.0025	0.025	---	---	---	---	---	---	---
B4-5.0	07/06/1994	5	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B4-10.0	07/06/1994	10	13 b	15	<0.0025	0.037	0.027	0.21	---	---	---	---	---	---	---
B5-5.0	07/07/1994	5	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B5-9.75	07/07/1994	9.75	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B6-5.0	07/07/1994	5	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B6-18.5	07/07/1994	18.5	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B7-5.0	07/07/1994	5	31 a	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B7-10.0	07/07/1994	10	**410 b**	14	0.24	0.89	0.31	2.0	---	---	---	---	---	---	---
B8-5.0	07/07/1994	5	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B8-9.0	07/07/1994	9	<4	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B9-5.0	07/07/1994	5	<1	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
B9-14.5	07/07/1994	14.5	<2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
S-8-6.5	12/07/1994	6.5	---	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
S-8-11.5	12/07/1994	11.5	---	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
S-8-21.5	12/07/1994	21.5	---	<1	0.014	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
S-9-6.5	12/07/1994	6.5	---	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
S-9-11.5	12/07/1994	11.5	---	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
S-9-21.5	12/07/1994	21.5	---	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
S-10-6.5	12/07/1994	6.5	---	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
S-10-11.5	12/07/1994	11.5	---	760	0.0032	0.028	**6.4**	6.9	---	---	---	---	---	---	---
S-10-16.5	12/07/1994	16.5	---	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
S-10-21.5	12/07/1994	21.5	---	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---	---	---	---	---	---
HA-1-10.0	10/14/2003	10.0	---	< 1.0 d	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---
HA-1-16.5	10/14/2003	16.5	---	< 1.0 d	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---
TR-1-0.5	05/20/2005	0.5	---	<0.98	---	---	---	---	---	---	---	---	---	---	---
TR-1-5.0	05/20/2005	5	---	<1.1	---	---	---	---	---	---	---	---	---	---	---
TR-1-8.0	05/20/2005	8	---	<1.1	---	---	---	---	---	---	---	---	---	---	---
TR-2-0.5	05/20/2005	0.5	---	<1.0	---	---	---	---	---	---	---	---	---	---	---
TR-2-5.0	05/20/2005	5	---	<0.97	---	---	---	---	---	---	---	---	---	---	---
TR-2-8.0	05/20/2005	8	---	<1.1	---	---	---	---	---	---	---	---	---	---	---
TR-3-0.5	05/20/2005	0.5	---	<0.93	---	---	---	---	---	---	---	---	---	---	---
TR-3-5.0	05/20/2005	5	---	<1.0	---	---	---	---	---	---	---	---	---	---	---
TR-4-0.5	05/20/2005	0.5	---	<1.0	---	---	---	---	---	---	---	---	---	---	---

Table 1

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
TR-4-5.0	05/20/2005	5	---	<1.0	---	---	---	---	---	---	---	---	---	---	---
B-10-5	12/13/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-10-10	12/13/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-10-15	12/13/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-10-20	12/13/2006	20	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-10-25	12/13/2006	25	---	**7,800**	**49**	**290**	**160**	**800**	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50
B-11-5	12/13/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-11-10	12/13/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-11-15	12/13/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-11-20	12/13/2006	20	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-11-25	12/13/2006	25	---	**3,500**	**30**	**200**	**97**	**510**	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50
B-12-5	12/11/2006	5	---	<1.0	0.028	0.018	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-12-10	12/11/2006	10	---	**2,300**	0.54	7.5	<0.50	**180**	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50
B-12-15	12/11/2006	15	---	**1,700**	**2.9**	**35**	**22**	**190**	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50
B-12-20	12/11/2006	20	---	**5,900**	**30**	**250**	**100**	**570**	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50
B-12-25	12/11/2006	25	---	750	0.70	8.3	**13**	**73**	<0.12	<1.2	<0.50	<0.50	<0.50	<0.12	<0.12
B-13-5	12/11/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-13-10	12/11/2006	10	---	<1.0	0.022	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-13-15	12/11/2006	15	---	<1.0	0.028	<0.0050	<0.0050	<0.010	<0.0050	0.053	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-13-20	12/11/2006	20	---	4.5	0.12	0.18	0.070	0.54	<0.0050	0.083	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-13-25	12/11/2006	25	---	**1,400**	**1.2**	**19**	**17**	**97**	<0.12	<1.2	<0.50	<0.50	<0.50	<0.12	<0.12
B-14-5	12/11/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-14-10	12/11/2006	10	---	<2.0	<0.010	<0.010	<0.010	<0.020	<0.010	<0.10	<0.020	<0.010	<0.010	<0.010	<0.010

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
B-14-15	12/11/2006	15	---	<1.0	0.039	<0.0050	<0.0050	<0.010	<0.0050	0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-14-20	12/11/2006	20	---	<2.0	0.019	<0.010	<0.010	<0.020	<0.010	<0.10	<0.020	<0.010	<0.010	<0.010	<0.010
B-14-25	12/11/2006	25	---	<2.0	0.017	<0.010	0.016	0.023	<0.010	<0.10	<0.020	<0.010	<0.010	<0.010	<0.010
B-15-5	12/12/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-15-10	12/12/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-15-15	12/12/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-15-20	12/12/2006	20	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-15-25	12/12/2006	25	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-16-5	12/12/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-16-10	12/12/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-16-15	12/12/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-16-20	12/12/2006	20	---	1.6	0.054	0.11	0.043	0.26	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-16-25	12/12/2006	25	---	2.5	0.19	0.17	0.12	0.54	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-17-5	12/12/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-17-10	12/12/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-17-15	12/12/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-17-20	12/12/2006	20	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-17-25	12/12/2006	25	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-18-5	12/12/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-18-10	12/12/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-18-15	12/12/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-18-20	12/12/2006	20	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-18-25	12/12/2006	25	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050

Table 1

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
B-19-5	12/12/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-19-10	12/12/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-19-15	12/12/2006	15	---	<1.0	0.028	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-19-20	12/12/2006	20	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-19-25	12/12/2006	25	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-20-5	12/11/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-20-10	12/11/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-20-15	12/11/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-20-20	12/11/2006	20	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-20-25	12/11/2006	25	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-21-5	12/11/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-21-10	12/11/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-21-15	12/11/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-21-20	12/11/2006	20	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-21-24	12/11/2006	24	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-21-28	12/11/2006	28	---	<1.0	<0.0050	0.0087	0.011	0.060	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-22-5	12/13/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-22-10	12/13/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-22-15	12/13/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-22-20	12/13/2006	20	---	**1,800**	0.81	**10**	**26**	**180**	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50
B-22-25	12/13/2006	25	---	**3,000**	**14**	**140**	**85**	**470**	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50
B-23-5	12/12/2006	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-23-10	12/12/2006	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-23-15	12/12/2006	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050

Table 1

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
B-23-20	12/12/2006	20	---	1.7	<0.0050	0.0053	0.010	0.075	<0.0050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
B-23-25	12/12/2006	25	---	**4,900**	**7.0**	**78**	**60**	**450**	<0.25	<2.5	<1.0	<1.0	<1.0	<0.25	<0.25
B-24-5	11/30/2007	5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
B-24-11.5	11/30/2007	11.5	---	0.51	0.043	0.021	0.0094	0.116	---	---	---	---	---	---	---
B-24-15	11/30/2007	15	---	<0.50	0.020	0.0064	<0.0050	0.0140	---	---	---	---	---	---	---
B-24-20	11/30/2007	20	---	1.3	0.036	0.049	0.016	0.102	---	---	---	---	---	---	---
B-24-25	11/30/2007	25	---	12	<0.0050	0.039	0.040	0.308	---	---	---	---	---	---	---
B-24-30	11/30/2007	30	---	**3,000**	**2.2**	**23**	**26**	**140**	---	---	---	---	---	---	---
B-24-32	11/30/2007	32	---	220	<0.12	0.73	1.3	6.14	---	---	---	---	---	---	---
B-25-5	12/03/2007	5	---	0.76 e	<0.0050	0.31	0.011	0.070	---	---	---	---	---	---	---
B-25-10	12/03/2007	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
B-26-5	11/30/2007	5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
B-26-10	11/30/2007	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
B-26-15	11/30/2007	15		<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
B-27-5	12/03/2007	5	---	<0.50	<0.0050	0.015	<0.0050	<0.0100	---	---	---	---	---	---	---
B-27-10	12/03/2007	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-12-5.5	12/13/2007	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-12-9.5	12/13/2007	9.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-12-14.5	12/13/2007	14.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-12-19.5	12/13/2007	19.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-12-24.5	12/13/2007	24.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-12-29.5	12/13/2007	29.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-12-34.5	12/13/2007	34.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---

Table 1

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
S-13-5.5	12/12/2007	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-13-10	12/12/2007	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-13-15	12/12/2007	15	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-13-20.5	12/12/2007	20.5	---	340	<0.0050	0.48	1.1	8.7	---	---	---	---	---	---	---
S-13-25	12/12/2007	25	---	62	0.017	0.053	0.030	0.146	---	---	---	---	---	---	---
S-13-31	12/12/2007	31	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-13-35	12/12/2007	35	---	1.2	<0.0050	0.0069	<0.0050	0.0077	---	---	---	---	---	---	---
S-14-5	12/12/2007	5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-14-10	12/12/2007	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-14-15.5	12/12/2007	15.5	---	<0.50	0.014	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-14-20	12/12/2007	20	---	**3,100**	**6.7**	**42**	**66**	**308**	---	---	---	---	---	---	---
S-14-25.5	12/12/2007	25.5	---	2.9	0.0050	0.0074	0.037	0.091	---	---	---	---	---	---	---
S-14-30	12/12/2007	30	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-14-35	12/12/2007	35	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-15-4.5*	12/11/2007	4.5	---	6.5	<0.0050	0.0058	<0.0050	0.044	---	---	---	---	---	---	---
S-15-9.5	12/11/2007	9.5	---	**5,000**	**93**	**350**	**100**	**660**	---	---	---	---	---	---	---
S-15-14.5	12/11/2007	14.5	---	**1,900**	**34**	**290**	**72**	**460**	---	---	---	---	---	---	---
S-15-19.5	12/11/2007	19.5	---	220	**4.0**	**19**	**5.8**	**33.8**	---	---	---	---	---	---	---
S-15-24.5	12/11/2007	24.5	---	66	0.020	0.054	0.027	0.163	---	---	---	---	---	---	---
S-15-29.5	12/11/2007	29.5	---	1.6	<0.0050	0.0062	<0.0050	<0.0100	---	---	---	---	---	---	---
S-15-34.5	12/11/2007	34.5	---	1.6	<0.0050	0.0062	<0.0050	0.0078	---	---	---	---	---	---	---
S-16-4.5*	12/11/2007	4.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-16-9.5	12/11/2007	9.5	---	<0.50	0.048	0.013	<0.0050	0.0171	---	---	---	---	---	---	---
S-16-14.5	12/11/2007	14.5	---	1.6	0.31	0.25	0.039	0.233	---	---	---	---	---	---	---

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Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
S-16-19.5	12/11/2007	19.5	---	230	0.042	0.21	0.18	1.28	---	---	---	---	---	---	---
S-16-24.5	12/11/2007	24.5	---	0.59	<0.0050	0.017	0.014	0.083	---	---	---	---	---	---	---
S-16-29.5	12/11/2007	29.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
S-16-34.5	12/11/2007	34.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
AS-1-5.5	12/13/2007	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
AS-1-9.5	12/13/2007	9.5	---	**1,800**	<0.0050	0.59	0.88	**29**	---	---	---	---	---	---	---
AS-1-14.5	12/13/2007	14.5	---	150	<0.12	0.27	0.29	1.93	---	---	---	---	---	---	---
AS-1-19.5	12/13/2007	19.5	---	**3,400**	**38**	**210**	**110**	**610**	---	---	---	---	---	---	---
AS-1-25.5	12/13/2007	25.5	---	91	0.26	0.99	1.1	5.1	---	---	---	---	---	---	---
AS-1-30	12/13/2007	30	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0100	---	---	---	---	---	---	---
AS-1-34.5	12/13/2007	34.5	---	7.6	0.099	0.16	0.058	0.220	---	---	---	---	---	---	---
S-17-6	05/30/2008	6	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-17-11	05/30/2008	11	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-17-16	05/30/2008	16	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-17-21	05/30/2008	21	---	0.63	<0.0050	0.008	0.0086	0.043	---	---	---	---	---	---	---
S-17-26	05/30/2008	26	---	**3,000**	**3.7**	**40**	**40**	**193**	---	---	---	---	---	---	---
S-17-31	05/30/2008	31	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-17-34.5	05/30/2008	34.5	---	210	0.83	6.3	3.1	**17.5**	---	---	---	---	---	---	---
S-18-6	05/30/2008	6	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-18-11	05/30/2008	11	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-18-15.5	05/30/2008	15.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-18-21	05/30/2008	21	---	**5,200**	**5.3**	**96**	**120**	**630**	---	---	---	---	---	---	---
S-18-26	05/30/2008	26	---	1.3	0.021	0.080	0.026	0.158	---	---	---	---	---	---	---
S-18-31	05/30/2008	31	---	<0.50	<0.0050	0.0055	0.0234	<0.010	---	---	---	---	---	---	---
S-18-34.5	05/30/2008	34.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
OW-1-6.5	05/30/2008	6.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
OW-1-11	05/30/2008	11	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
OW-1-16	05/30/2008	16	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
OW-1-19.5	05/30/2008	19.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
EB-1	06/11/2008	23	---	190	<0.12	<0.12	<0.12	1.17	---	---	---	---	---	---	---
EB-2	06/11/2008	23	---	**2,500**	**5.0**	**48**	**41**	**220**	---	---	---	---	---	---	---
EB-3	06/11/2008	23	---	13	0.42	2.5	0.33	2.26	---	---	---	---	---	---	---
EB-4	06/11/2008	23	---	**2,900**	**11**	**170**	**69**	**430**	---	---	---	---	---	---	---
EB-5	06/11/2008	23	---	**2,100**	**7.4**	**98**	**47**	**298**	---	---	---	---	---	---	---
EB-6	06/11/2008	23	---	**3,300**	**4.7**	**62**	**56**	**339**	---	---	---	---	---	---	---
EB-7	06/11/2008	23	---	100	0.90	2.6	1.2	7.7	---	---	---	---	---	---	---
EB-8	06/11/2008	23	---	**3,300**	**22**	**230**	**63**	**470**	---	---	---	---	---	---	---
EB-9	06/11/2008	23	---	**3,900**	**16**	**230**	**85**	**540**	---	---	---	---	---	---	---
EB-10	06/11/2008	23	---	**3,600**	**6.3**	**120**	**74**	**470**	---	---	---	---	---	---	---
B-28-5.5	09/26/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
B-28-10.5	09/26/2008	10.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
B-28-15.5	09/26/2008	15.5	---	<0.50	0.0059	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
B-28-20.5	09/26/2008	20.5	---	<0.50	0.0051	0.0054	<0.0050	0.013	---	---	---	---	---	---	---
B-28-25.5	09/26/2008	25.5	---	**1,500**	<2.5	7.0	**17**	**72**	---	---	---	---	---	---	---
B-28-30.5	09/26/2008	30.5	---	62	<0.50	<0.50	<0.50	2.6	---	---	---	---	---	---	---
B-28-35.5	09/26/2008	35.5	---	<50	<0.50	0.51	<0.50	1.4	---	---	---	---	---	---	---
B-28-40.5	09/26/2008	40.5	---	<0.50	<0.0050	0.013	0.0074	0.044	---	---	---	---	---	---	---
B-28-45.5	09/26/2008	45.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
B-29-5.5	09/26/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
B-29-10.5	09/26/2008	10.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
B-29-15.5	09/26/2008	15.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
B-29-20.5	09/26/2008	20.5	---	<0.50	<0.0050	0.0055	<0.0050	0.020	---	---	---	---	---	---	---
B-29-25.5	09/26/2008	25.5	---	**5,800**	**14**	**260**	**82**	**600**	---	---	---	---	---	---	---
B-29-30.5	09/26/2008	30.5	---	0.69	0.0063	0.033	0.0087	0.058	---	---	---	---	---	---	---
B-29-35.5	09/26/2008	35.5	---	<0.50	<0.0050	0.0089	<0.0050	0.030	---	---	---	---	---	---	---
B-29-40.5	09/26/2008	40.5	---	<0.50	<0.0050	0.031	0.011	0.073	---	---	---	---	---	---	---
B-29-45.5	09/26/2008	45.5	---	<0.50	<0.0050	0.0064	<0.0050	0.020	---	---	---	---	---	---	---
S-14R-5.5	09/23/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-14R-10.5	09/23/2008	10.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-14R-15.5	09/23/2008	15.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-14R-20.5	09/23/2008	20.5	---	99	<0.50	<0.50	0.66	2.8	---	---	---	---	---	---	---
S-14R-25.5	09/23/2008	25.5	---	<0.50	<0.0050	<0.0050	<0.0050	0.023	---	---	---	---	---	---	---
S-14R-30.5	09/23/2008	30.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-14R-34.5	09/23/2008	34.5	---	56	<0.50	0.73	0.60	3.2	---	---	---	---	---	---	---
S-19-5.5	09/22/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-19-10.5	09/22/2008	10.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-19-15.5	09/22/2008	15.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-19-20.5	09/22/2008	20.5	---	<0.50	0.019	<0.0050	<0.0050	0.0064	---	---	---	---	---	---	---
S-19-25.5	09/22/2008	25.5	---	<0.50	0.0086	0.028	0.014	0.073	---	---	---	---	---	---	---
S-19-30.5	09/22/2008	30.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-19-35.5	09/22/2008	35.5	---	<0.50	<0.0050	<0.0050	<0.0050	0.0054	---	---	---	---	---	---	---
S-19-40.5	09/22/2008	40.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-19-45.5	09/22/2008	45.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-20-5.5	09/22/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
S-20-10.5	09/22/2008	10.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-20-15.5	09/22/2008	15.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-20-20.5	09/22/2008	20.5	---	28 f	0.0088	0.018	0.15	0.66 f	---	---	---	---	---	---	---
S-20-25.5	09/22/2008	25.5	---	0.58	0.012	0.023	0.015	0.073	---	---	---	---	---	---	---
S-20-30.5	09/22/2008	30.5	---	58	<0.50	<0.50	<0.50	1.4	---	---	---	---	---	---	---
S-20-35.5	09/22/2008	35.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-20-40.5	09/22/2008	40.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-20-45.5	09/22/2008	45.5	---	<0.50	<0.0050	0.0067	<0.0050	0.012	---	---	---	---	---	---	---
S-21A-5.5	09/25/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-21A-10.5	09/25/2008	10.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-21A-15.5	09/25/2008	15.5	---	<0.50	<0.0050	<0.0050	<0.0050	0.041	---	---	---	---	---	---	---
S-21A-20.5	09/25/2008	20.5	---	**3,000**	**12**	**140**	**61**	**360**	---	---	---	---	---	---	---
S-21A-26.5	09/25/2008	26.5	---	**3,500**	**4.8**	**29**	**38**	**170**	---	---	---	---	---	---	---
S-21B-5.5	09/23/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-21B-15.5	09/23/2008	15.5	---	1.9	0.028	0.11	0.030	0.38	---	---	---	---	---	---	---
S-21B-20.5	09/23/2008	20.5	---	**2,300**	<5.0	**88**	**52**	**360**	---	---	---	---	---	---	---
S-21B-25.5	09/23/2008	25.5	---	**7,100**	**37**	**250**	**130**	**760**	---	---	---	---	---	---	---
S-21B-30.5	09/23/2008	30.5	---	0.51	<0.0050	<0.0050	<0.0050	0.028	---	---	---	---	---	---	---
S-21B-35.5	09/23/2008	35.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-21B-40.5	09/23/2008	40.5	---	<0.50	<0.0050	0.012	<0.0050	0.028	---	---	---	---	---	---	---
S-21B-45.5	09/23/2008	45.5	---	<0.50	<0.0050	0.013	0.0063	0.039	---	---	---	---	---	---	---
S-22A-5.5	09/25/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-22A-10.5	09/25/2008	10.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-22A-15.5	09/25/2008	15.5	---	3.5	<0.0050	<0.0050	<0.0050	0.013	---	---	---	---	---	---	---
S-22A-20.5	09/25/2008	20.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
S-22A-26.5	09/25/2008	26.5	---	**3,900**	**11**	**70**	**55**	**310**	---	---	---	---	---	---	---
S-22B-5.5	09/22/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-22B-10.5	09/22/2008	10.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-22B-15.5	09/22/2008	15.5	---	1.9	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-22B-20.5	09/22/2008	20.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-22B-25.5	09/22/2008	25.5	---	**1,200**	**2.6**	**13**	**17**	**81**	---	---	---	---	---	---	---
S-22B-30.5	09/22/2008	30.5	---	<0.50	<0.0050	<0.0050	<0.0050	0.0063	---	---	---	---	---	---	---
S-22B-35.5	09/22/2008	35.5	---	56	<0.50	0.83	0.69	3.7	---	---	---	---	---	---	---
S-22B-40.5	09/22/2008	40.5	---	14 f	0.012	<0.0050	<0.0050	0.29 f	---	---	---	---	---	---	---
S-22B-45.5	09/22/2008	45.5	---	<0.50	<0.0050	<0.0050	<0.0050	0.0079	---	---	---	---	---	---	---
S-23-5.5	09/24/2008	5.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-23-10.5	09/24/2008	10.5	---	1.3	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---
S-23-15.5	09/24/2008	15.5	---	<0.50	0.0078	<0.0050	<0.0050	0.0082	---	---	---	---	---	---	---
S-23-20.5	09/24/2008	20.5	---	**3,700**	**17**	**170**	**86**	**480**	---	---	---	---	---	---	---
S-23-25.5	09/24/2008	25.5	---	**1,600**	**1.5**	**15**	**16**	**87**	---	---	---	---	---	---	---
S-23-30.5	09/24/2008	30.5	---	<0.50	<0.0050	<0.0050	<0.0050	0.0072	---	---	---	---	---	---	---
S-23-34.5	09/24/2008	34.5	---	68	<0.0050	<0.0050	<0.0050	0.014	---	---	---	---	---	---	---
S-26-5	09/14/2015	5	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	---	---	---	---	---	---
S-26-10	09/14/2015	10	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	---	---	---	---	---	---
S-26-15	09/14/2015	15	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	---	---	---	---	---	---
S-26-20	09/14/2015	20	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	---	---	---	---	---	---
S-26-25	09/14/2015	25	---	3.7	0.041	0.027	0.024	0.13	---	---	---	---	---	---	---
S-26-26	09/14/2015	26	---	0.17	0.011	0.0061	0.0055	0.026	---	---	---	---	---	---	---
S-26-30	09/14/2015	30	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	---	---	---	---	---	---
S-6-34.5	09/14/2015	34.5	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	---	---	---	---	---	---

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
Shallow Soil (≤10 fbg) ESL[g]:			**110**	**500**	**1.2**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NA**	**NA**	**NA**	**0.91**	**0.51**
Deep Soil (>10 fbg) ESL[g]:			**110**	**1,000**	**1.2**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NA**	**NA**	**NA**	**0.91**	**0.51**

Notes:
fbg = Feet below grade
mg/kg = Milligrams per kilogram
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before 12/11/06, analyzed by EPA Method 8015 unless otherwise noted.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before 10/14/2003, analyzed by EPA Method 8020
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
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
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B
<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level
* = Sample may have contained backfilled soil fgrom air-knife clearance activities.
NA = No applicable ESL
Results in **bold** equal or exceed applicable ESL
Shading indicates that soil sample location was subsequently excavated; results are not representative of residual soil.

a = Positive result appears to be a heavier hydrocarbon than diesel
b = Positive result appears to be a lighter hydrocarbon than diesel
c = Analyzed by EPA Method 7421

Historical Soil Analytical Data
Former Shell Service Station
461 8th Street, Oakland, California

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)

d = Analyzed by EPA Method 8260B

e = 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 on the specified standard.

f = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

g = San Francisco Bay Regional Water Quality Control Board (RWQCB) commercial/industrial ESL for soil where groundwater is not a source of drinking water (Tables B and D of *User's Guide: Derivation and Application of Environmental Screening Levels,* RWQCB, Interim Final - 2013).

Table 2

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-4	10/26/1988	130	3.8	13	4.0	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	---	---

Table 2

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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	---	---
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	<50 d	<0.50 d	<0.50 d	<0.50 d	<0.50 d	---	<5.0 d	---	---	---	---	---	---	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 f	<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	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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	---	---
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-4	07/28/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	34.41	20.92	---	13.49	---	---
S-4	10/28/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	34.41	21.35	---	13.06	---	---
S-4	05/07/2012	240	86	22	9.5	25	---	---	---	---	---	---	---	---	34.41	20.65	---	13.76	2.52	119
S-4	05/02/2013	55	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	34.41	21.45	---	12.96	---	---
S-4	04/21/2014	380	88	58	14	42	---	---	---	---	---	---	---	---	34.41	21.70	---	12.71	---	---
S-4	07/17/2015	6,300	23	1.0	<1.0	15	---	---	---	---	---	---	---	---	34.41	18.49	---	15.92	---	---
S-5	04/16/1987	130,000	15,000	16,000	a	14,000	---	---	---	---	---	---	---	---	99.36	---	---	---	---	---
S-5	10/26/1988	110,000	20,000	25,000	2,300	10,000	---	---	---	---	---	---	---	---	99.36	---	---	---	---	---
S-5	02/14/1989	94,000	16,000	21,000	1,800	10,000	---	---	---	---	---	---	---	---	99.36	19.87	---	79.49	---	---
S-5	05/01/1989	120,000	29,000	35,000	3,100	15,000	---	---	---	---	---	---	---	---	99.36	21.23	---	78.13	---	---
S-5	07/27/1989	110,000	20,000	29,000	2,400	14,000	---	---	---	---	---	---	---	---	99.36	20.41	---	78.95	---	---
S-5	10/05/1989	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	20.43	0.01	78.94	---	---
S-5	01/09/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	21.16	0.01	78.21	---	---
S-5	04/30/1990	100,000	13,000	22,000	2,100	11,000	---	---	---	---	---	---	---	---	99.36	20.96	---	78.40	---	---
S-5	07/31/1990	53,000	8,300	14,000	1,200	7,400	---	---	---	---	---	---	---	---	99.36	20.88	---	78.48	---	---
S-5	10/30/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	21.96	0.03	77.42	---	---
S-5	05/06/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	23.00	0.13	76.46	---	---
S-5	06/27/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	20.53	0.03	78.85	---	---
S-5	09/24/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	21.40	0.06	78.01	---	---
S-5	11/07/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	21.33	0.25	78.23	---	---
S-5	02/13/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	22.52	0.31	77.09	---	---
S-5	05/11/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	22.46	0.58	77.36	---	---
S-5	12/03/1992	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	99.36	---	---	---	---	---
S-5	05/13/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	22.22	0.27	77.36	---	---
S-5	07/22/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	21.68	0.25	77.88	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-5	10/20/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	20.51	0.23	79.03	---	---
S-5	01/25/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	21.93	0.18	77.57	---	---
S-5	04/25/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	21.97	0.35	77.67	---	---
S-5	05/26/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	20.84	0.35	78.80	---	---
S-5	06/10/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	21.01	0.32	78.61	---	---
S-5	07/21/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	22.18	0.47	77.56	---	---
S-5	08/25/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	22.01	0.44	77.70	---	---
S-5	09/22/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	22.00	0.15	77.48	---	---
S-5	10/24/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	99.36	22.28	0.56	77.53	---	---
S-5	12/22/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	22.88	0.99	0.85	---	---
S-5	04/20/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	21.66	0.33	1.54	---	---
S-5	10/04/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	22.18	---	0.76	---	---
S-5	01/03/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	22.80	0.83	0.80	---	---
S-5	04/11/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	21.15	0.67	2.33	---	---
S-5	07/11/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	22.62	0.90	1.04	---	---
S-5	10/02/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	23.07	0.64	0.38	---	---
S-5	01/22/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	20.83	0.16	2.24	---	---
S-5	07/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	21.16	0.05	1.82	---	---
S-5	01/22/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	22.94	20.04	0.04	2.93	---	---
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	51,000	13,000	1,200	1,200	2,400	2,400	---	---	---	---	---	---	---	22.94	20.11	---	2.83	---	---
S-5	04/23/1999	65,600	2,540	7,300	1,790	9,840	<1,000	---	---	---	---	---	---	---	22.94	19.21	---	3.73	---	---
S-5	07/29/1999	61,400	3,320	6,980	1,520	7,700	<1,000	---	---	---	---	---	---	---	22.94	14.77	---	8.17	---	---
S-5	11/01/1999	48,200	2,700	5,740	1,290	7,850	<500	<40.0	---	---	---	---	---	---	22.94	15.56	---	7.38	---	---
S-5	01/07/2000	39,000	3,900	8,500	790	8,300	1,500	---	---	---	---	---	---	---	22.94	15.82	---	7.12	---	---
S-5	04/11/2000	29,300	1,680	5,060	1,130	6,220	<250	---	---	---	---	---	---	---	22.94	18.19	---	4.75	---	---
S-5	07/19/2000	6,420	2,110	207	252	681	355	253 b	---	---	---	---	---	---	22.94	19.01	---	3.93	---	---
S-5	10/12/2000	41,500	2,940	4,940	1,520	7,770	<250	<66.7	---	---	---	---	---	---	22.94	19.62	---	3.32	---	---
S-5	01/09/2001	142,000	7,030	9,550	2,340	12,600	779	---	---	---	---	---	---	---	22.94	19.94	---	3.00	---	---
S-5	04/06/2001	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	22.94	---	---	---	---	---
S-5	04/13/2001	59,800	4,810	10,800	1,950	10,100	842	<10.0	---	---	---	---	---	---	22.94	14.72	---	8.22	---	---
S-5	07/25/2001	71,000	2,900	6,800	1,700	9,100	---	<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	58,000 d	460 d	3,300 d	1,900 d	8,400 d	---	<200 d	---	---	---	---	---	---	c	14.27	---	---	---	---
S-5	05/08/2002	60,000 d	d	2,700 d	1,800 d	8,800 d	---	<100 d	---	---	---	---	---	---	22.94	18.40	---	4.54	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-5	07/18/2002	53,000	240	1,200	1,500	6,400	---	<100	---	---	---	---	---	---	27.36	14.25	---	13.11	---	---
S-5	10/15/2002	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	27.36	---	---	---	---	---
S-5	10/17/2002	42,000	420	1,100	1,200	5,500	---	<10	---	---	---	---	---	---	27.36	14.90	---	12.46	---	---
S-5	01/02/2003	26,000	680	1,500	780	3,800	---	<5.0	---	---	---	---	---	---	27.36	14.72	---	12.64	---	---
S-5	04/15/2003	3,600	29	38	65	370	---	<5.0	---	---	---	---	---	---	e	14.45	---	---	---	---
S-5	07/14/2003	21,000	210	460	650	2,900	---	<10	---	---	---	---	---	---	e	14.10	---	---	---	---
S-5	10/20/2003	37,000	390	590	870	3,500	---	<13	---	---	---	---	---	---	e	14.63	---	---	---	---
S-5	01/22/2004	29,000	200	210	710	2,400	---	<13	---	---	---	---	---	---	e	14.08	---	---	---	---
S-5	04/19/2004	25,000	490	460	750	2,400	---	19	---	---	---	---	---	---	e	13.43	---	---	---	---
S-5	07/13/2004	28,000	300	280	690	2,400	---	<13	---	---	---	---	---	---	e	14.88	---	---	---	---
S-5	08/14/2008	31,000	1,700	1,600	1,400	3,350	---	<10	---	---	---	---	<5.0	<10	e	16.65	---	---	---	---
S-5	11/11/2008	37,000 i	2,500 i	1,300 i	2,000 i	3,490 i	---	<50 i	---	---	---	---	<25 i	<50 i	e	16.81	---	---	---	---
S-5	11/11/2008	40,000 j	2,300 j	1,400 j	1,900 j	3,630 j	---	<50 j	---	---	---	---	<25 j	<50 j	e	16.81	---	---	---	---
S-5	01/05/2009	57,000	2,300	1,400	1,500	2,900	---	<10	---	---	---	---	<5.0	<10	e	16.71	---	---	---	---
S-5	04/09/2009	52,000	2,100	3,500	1,900	5,400	---	<20	---	---	---	---	<10	<20	e	16.31	---	---	0.3	163
S-5	07/23/2009	37,000	1,800	1,900	1,400	3,800	---	---	---	---	---	---	---	---	e	16.62	---	---	1.48	-84
S-5	10/01/2009	36,000	1,800	1,900	1,400	3,700	---	---	---	---	---	---	---	---	27.24	16.35	---	10.89	0.86	-52
S-5	01/28/2010	35,000	1,200	1,900	1,500	3,600	---	---	---	---	---	---	---	---	27.24	16.35	---	10.89	---	---
S-5	05/20/2010	36,000	1,600	2,500	1,700	4,500	---	---	---	---	---	---	---	---	27.24	16.50	---	10.74	1.22	227
S-5	08/31/2010	32,000	1,300	1,100	1,600	3,400	---	---	---	---	---	---	---	---	27.24	16.95	---	10.29	0.58	-102
S-5	12/29/2010	26,000	970	1,500	1,500	3,200	---	---	---	---	---	---	---	---	27.24	16.25	---	10.99	1.18	233
S-5	02/01/2011	27,000	1,100	1,500	1,400	3,100	---	---	---	---	---	---	---	---	27.24	15.38	---	11.86	1.65	-83
S-5	04/25/2011	70,000	380	440	720	1,200	---	---	---	---	---	---	---	---	27.24	13.98	---	13.26	0.95	-109
S-5	07/28/2011	21,000	340	430	570	1,000	---	---	---	---	---	---	---	---	27.24	13.80	---	13.44	0.71	-95
S-5	10/28/2011	23,000	430	480	570	1,300	---	---	---	---	---	---	---	---	27.24	14.28	---	12.96	6.05	190
S-5	05/07/2012	16,000	150	200	350	760	---	---	---	---	---	---	---	---	27.24	13.82	---	13.42	3.61	120
S-5	08/31/2012	12,000	330	300	330	850	---	---	---	---	---	---	---	---	27.24	14.68	---	12.56	1.38	253
S-5	12/11/2012	14,000	420	700	550	1,500	---	---	---	---	---	---	---	---	27.24	16.00	---	11.24	1.07/1.29	162/63
S-5	01/24/2013	29,000	910	1,700	1,200	2,700	---	---	---	---	---	---	---	---	27.24	16.46	---	10.78	---	---
S-5	05/02/2013	35,000	650	1,500	1,400	4,500	---	---	---	---	---	---	---	---	27.24	18.59	---	8.65	---	---
S-5	08/09/2013	350,000	820	9,800	6,900	34,000	---	---	---	---	---	---	---	---	27.24	19.12	---	8.12	---	---
S-5	11/07/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	k	k	k	---	---
S-5	01/31/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	19.87	0.91	8.10	---	---
S-5	03/14/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	19.98	1.15	8.18	---	---
S-5	04/21/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	19.80	1.14	8.35	---	---
S-5	07/31/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	18.58	0.29	8.89	---	---
S-5	09/22/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	18.55	0.15	8.81	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-5	10/03/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	18.45	---	8.79	---	---
S-5	10/10/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	10.48	---	16.76	---	---
S-5	10/17/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	18.44	---	8.80	---	---
S-5	10/24/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	18.54	---	8.70	---	---
S-5	11/21/2014	34,000	350	830	1,400	14,000	---	---	---	---	---	---	---	---	27.24	18.58	---	8.66	---	---
S-5	12/23/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	27.24	25.19	---	2.05	---	---
S-5	01/22/2015	56,000 m	690	740	2,600	9,400	---	---	---	---	---	---	---	---	27.24	18.24	---	9.00	---	---
S-5	07/17/2015	32,000	540	240	1,300	3,700	---	---	---	---	---	---	---	---	27.24	18.67	---	8.57	---	---
S-5	**09/29/2015**	**43,000**	**460**	**260**	**1,300**	**2,900**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**27.24**	**18.49**	**---**	**8.75**	**---**	**---**
S-6	04/16/1987	81,000	16,000	9,000	a	6,400	---	---	---	---	---	---	---	---	100.58	---	---	---	---	---
S-6	10/26/1988	110,000	29,000	18,000	2,500	8,200	---	---	---	---	---	---	---	---	100.58	---	---	---	---	---
S-6	02/14/1989	54,000	18,000	4,500	1,400	4,000	---	---	---	---	---	---	---	---	100.58	20.87	---	79.71	---	---
S-6	05/01/1989	93,000	43,000	9,900	3,000	8,000	---	---	---	---	---	---	---	---	100.58	20.49	---	80.09	---	---
S-6	07/27/1989	52,000	20,000	3,200	1,700	5,500	---	---	---	---	---	---	---	---	100.58	21.01	---	79.57	---	---
S-6	10/05/1989	55,000	20,000	2,900	1,600	5,500	---	---	---	---	---	---	---	---	100.58	21.24	---	79.34	---	---
S-6	01/09/1990	76,000	35,000	9,100	2,300	8,600	---	---	---	---	---	---	---	---	100.58	22.62	Sheen	77.96	---	---
S-6	04/30/1990	39,000	13,000	2,300	900	2,800	---	---	---	---	---	---	---	---	100.58	22.10	---	78.48	---	---
S-6	07/31/1990	48,000	20,000	4,600	1,500	4,900	---	---	---	---	---	---	---	---	100.58	22.00	---	78.58	---	---
S-6	10/30/1990	27,000	7,400	900	600	1,400	---	---	---	---	---	---	---	---	100.58	22.14	---	78.44	---	---
S-6	05/06/1991	35,000	3,900	2,700	2,300	3,500	---	---	---	---	---	---	---	---	100.58	22.40	---	78.18	---	---
S-6	06/27/1991	51,000	19,000	5,600	1,700	6,300	---	---	---	---	---	---	---	---	100.58	21.21	---	79.37	---	---
S-6	09/24/1991	42,000	14,000	4,300	1,200	4,000	---	---	---	---	---	---	---	---	100.58	22.26	---	78.32	---	---
S-6	11/07/1991	39,000	11,000	2,000	800	2,300	---	---	---	---	---	---	---	---	100.58	22.35	---	78.23	---	---
S-6	02/13/1992	64,000	21,000	6,200	1,600	5,100	---	---	---	---	---	---	---	---	100.58	22.28	---	78.30	---	---
S-6	05/11/1992	57,000	22,000	7,600	2,200	7,700	---	---	---	---	---	---	---	---	100.58	22.10	---	78.48	---	---
S-6	12/03/1992	110,000	26,000	9,400	2,100	8,700	---	---	---	---	---	---	---	---	100.58	22.14	---	78.44	---	---
S-6	05/13/1993	58,000	21,000	6,800	2,500	9,800	---	---	---	---	---	---	---	---	100.58	22.16	---	78.42	---	---
S-6	07/22/1993	70,000	31,000	14,000	3,000	13,000	---	---	---	---	---	---	---	---	100.58	21.64	---	78.94	---	---
S-6	10/20/1993	48,000	28,000	9,800	3,200	12,000	---	---	---	---	---	---	---	---	100.58	21.62	---	78.96	---	---
S-6	01/25/1994	70,000	23,000	7,500	2,500	8,000	---	---	---	---	---	---	---	---	100.58	21.80	---	78.78	---	---
S-6	04/25/1994	61,000	16,000	4,000	1,800	5,100	---	---	---	---	---	---	---	---	100.58	21.68	---	78.90	---	---
S-6	07/21/1994	44,000	8,200	3,600	1,400	3,900	---	---	---	---	---	---	---	---	100.58	21.78	---	78.80	---	---
S-6 (D)	07/21/1994	32,000	7,800	3,400	1,300	3,700	---	---	---	---	---	---	---	---	100.58	---	---	---	---	---
S-6	10/24/1994	2,936	1,184	440.6	163.4	648.4	---	---	---	---	---	---	---	---	100.58	22.06	---	78.52	---	---
S-6 (D)	10/24/1994	2,968	770.8	325.3	144.1	622	---	---	---	---	---	---	---	---	22.08	---	---	---	---	---
S-6	12/22/1994	32,000	7,000	2,900	790	2,400	---	---	---	---	---	---	---	---	22.08	21.91	---	0.17	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-6 (D)	12/22/1994	32,000	8,000	3,800	1,100	3,400	---	---	---	---	---	---	---	---	22.08	---	---	---	---	---
S-6	04/20/1995	56,000	15,000	3,800	1,900	4,900	---	---	---	---	---	---	---	---	22.08	21.38	---	0.70	---	---
S-6 (D)	04/20/1995	49,000	13,000	3,500	1,800	4,700	---	---	---	---	---	---	---	---	22.08	---	---	---	---	---
S-6	10/04/1995	49,000	8,400	4,700	1,800	4,800	---	---	---	---	---	---	---	---	22.08	21.80	---	0.28	---	---
S-6 (D)	10/04/1995	41,000	8,400	4,100	1,400	4,400	---	---	---	---	---	---	---	---	22.08	---	---	---	---	---
S-6	01/03/1996	52,000	9,100	7,100	1,800	5,800	---	---	---	---	---	---	---	---	22.08	21.70	---	0.38	---	---
S-6	04/11/1996	59,000	11,000	7,100	2,100	6,400	<500	---	---	---	---	---	---	---	22.08	21.62	---	0.46	---	---
S-6 (D)	04/11/1996	59,000	11,000	6,800	1,900	6,400	<500	---	---	---	---	---	---	---	22.08	---	---	---	---	---
S-6	07/11/1996	72,000	18,000	6,600	2,500	8,400	<1,000	---	---	---	---	---	---	---	22.08	21.65	---	0.43	---	---
S-6	10/02/1996	57,000	11,000	6,500	1,500	5,100	<500	---	---	---	---	---	---	---	22.08	21.80	---	0.28	---	---
S-6	01/22/1997	67,000	15,000	5,000	1,800	5,400	<1,000	---	---	---	---	---	---	---	22.08	19.95	---	2.13	---	---
S-6 (D)	01/22/1997	63,000	15,000	4,800	1,800	5,200	<1,000	---	---	---	---	---	---	---	22.08	---	---	---	---	---
S-6	07/21/1997	61,000	15,000	2,100	1,100	3,500	1,900	---	---	---	---	---	---	---	22.08	20.61	---	1.47	---	---
S-6	01/22/1998	46,000	14,000	3,200	1,300	3,400	<500	---	---	---	---	---	---	---	22.08	19.82	---	2.26	---	---
S-6	07/08/1998	74,000	26,000	7,500	2,200	6,200	<1,000	---	---	---	---	---	---	---	22.08	18.20	---	3.88	---	---
S-6	10/26/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	22.08	18.81	---	3.27	---	---
S-6	01/28/1999	120,000	9,000	14,000	2,700	14,000	3,700	---	---	---	---	---	---	---	22.08	19.73	---	2.35	---	---
S-6	04/23/1999	58,500	15,900	1,360	1,640	3,030	<2500	---	---	---	---	---	---	---	22.08	17.58	---	4.50	---	---
S-6	07/29/1999	36,200	10,300	760	930	1,360	<1,000	---	---	---	---	---	---	---	22.08	21.35	---	0.73	---	---
S-6	11/01/1999	36,000	11,700	767	865	1,670	<1,250	<40.0	---	---	---	---	---	---	22.08	19.23	---	2.85	---	---
S-6	01/07/2000	36,000	7,600	4,600	840	3,600	<1,000	---	---	---	---	---	---	---	22.08	19.53	---	2.55	---	---
S-6	04/11/2000	14,600	7,540	205	306	609	621	---	---	---	---	---	---	---	22.08	18.16	---	3.92	---	---
S-6	07/19/2000	2,590	629	63.9	99.6	267	124	72.7 b	---	---	---	---	---	---	22.08	18.40	---	3.68	---	---
S-6	10/12/2000	32,900	14,200	966	1,060	1,790	<500	<100	---	---	---	---	---	---	22.08	19.52	---	2.56	---	---
S-6	01/09/2001	27,600	11,200	675	666	1,580	1,430	<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	16,900	7,800	343	172	966	809	<20.0	---	---	---	---	---	---	22.08	18.25	---	3.83	---	---
S-6	07/25/2001	29,000	9,800	1,700	1,000	1,800	---	<250	---	---	---	---	---	---	22.08	18.27	---	3.81	---	---
S-6	11/01/2001	41,000	15,000	2,400	1,100	2,500	---	<500	---	---	---	---	---	---	22.08	19.30	---	2.78	---	---
S-6	01/17/2002	38,000 d	11,000 d	1,700 d	990 d	2,200 d	---	<500 d	---	---	---	---	---	---	22.08	18.51	---	3.57	---	---
S-6	05/08/2002	72,000	21,000	4,400	2,200	5,300	---	<1,000	---	---	---	---	---	---	22.08	18.30	---	3.78	---	---
S-6	07/18/2002	71,000	17,000	4,300	1,700	4,800	---	<1,000	---	---	---	---	---	---	30.56	18.19	---	12.37	---	---
S-6	10/15/2002	55,000	16,000	4,600	1,500	4,600	---	<100	---	---	---	---	---	---	30.56	18.77	---	11.79	---	---
S-6	01/02/2003	75,000	21,000	5,000	2,400	6,400	---	<50	---	---	---	---	---	---	30.56	18.60	---	11.96	---	---
S-6	04/15/2003	64,000	29,000	6,400	2,700	5,600	---	<1,000	---	---	---	---	---	---	30.56	18.27	---	12.29	---	---
S-6	07/14/2003	47,000	19,000	4,300	1,500	4,300	---	<100	---	---	---	---	---	---	30.56	18.05	---	12.51	---	---
S-6	10/20/2003	63,000	21,000	5,800	1,900	5,200	---	<130	---	---	---	---	---	---	30.56	18.55	Sheen	12.01	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-6	01/22/2004	41,000	21,000	4,300	1,800	4,000	---	<130	---	---	---	---	---	---	30.56	18.18	Sheen	12.38	---	---
S-6	04/19/2004	58,000	23,000	4,200	2,200	3,900	---	<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	45,000	21,000	3,600	1,700	3,300	---	<130	---	---	---	---	---	---	30.56	18.45	---	12.11	---	---
S-6	01/17/2005	61,000	21,000	3,500	1,600	3,200	---	<130	---	---	---	---	---	---	30.56	17.52	---	13.04	---	---
S-6	04/14/2005	36,000	12,000	6,200	850	4,800	---	<50	---	---	---	---	---	---	30.56	22.49	---	8.07	---	---
S-6	07/28/2005	54,000	16,000	9,100	1,800	5,900	---	<130	---	---	---	---	---	---	30.56	19.38	---	11.18	---	---
S-6	10/05/2005	59,000	14,000	7,500	1,400	5,000	---	<50	---	---	---	---	---	---	30.56	18.32	---	12.24	---	---
S-6	02/09/2006	41,100	7,060	3,900	673	2,380	---	<0.500	---	---	---	---	---	---	30.56	17.11	---	13.45	---	---
S-6	05/15/2006	188,000	24,800	20,700	2,540	12,400	---	<25.0	---	---	---	---	---	---	30.56	19.80	---	10.76	---	---
S-6	08/23/2006	133,000	24,900	16,100	2,280	10,500	---	<0.500	---	---	---	---	---	---	30.56	20.45	---	10.11	---	---
S-6	11/15/2006	66,000	19,000	8,400	1,900	7,400	---	<400	---	---	---	---	---	---	30.56	20.41	---	10.15	---	---
S-6	01/30/2007	88,000	18,000	9,600	1,900	7,200	---	<100	---	---	---	---	---	---	30.56	20.47	---	10.09	---	---
S-6	05/29/2007	56,000 f	17,000	6,700	1,700	5,400	---	<20	---	---	---	---	---	---	30.56	20.40	---	10.16	---	---
S-6	08/15/2007	57,000 f,g	15,000	6,800	1,600	6,100	---	<100	---	---	---	---	---	---	30.56	20.49	---	10.07	---	---
S-6	11/28/2007	42,000 f	13,000	5,000	1,300	5,000	---	<100	---	---	---	---	---	---	30.56	20.65	---	9.91	---	---
S-6	02/08/2008	35,000 f	12,000	5,000	1,200	4,050	---	<100	---	---	---	---	<50	<100	30.56	20.31	---	10.25	---	---
S-6	05/08/2008	45,000 f	15,000	6,100	1,400	5,000	---	<100	---	---	---	---	<50	<100	30.56	20.63	---	9.93	---	---
S-6	08/14/2008	37,000	11,000	5,200	1,200	4,600	---	<100	---	---	---	---	<50	<100	30.56	20.65	---	9.91	---	---
S-6	11/11/2008	37,000 i	15,000 i	6,200 i	1,200 i	3,390 i	---	<10 i	---	---	---	---	<5.0 i	<10 i	30.56	20.79	---	9.77	---	---
S-6	11/11/2008	14,000 j	5,200 j	680 j	400 j	1,060 j	---	<50 j	---	---	---	---	<25 j	<50 j	30.56	20.79	---	9.77	---	---
S-6	01/05/2009	53,000	9,400	3,600	890	3,100	---	<100	---	---	---	---	<50	<100	30.56	21.66	---	8.90	---	---
S-6	04/09/2009	Unable to sample		---	---	---	---	---	---	---	---	---	---	---	30.56	---	---	---	---	---
S-6	04/21/2009	13,000	3,700	1,100	270	750	---	<100	---	---	---	---	<50	<100	30.56	20.20	---	10.36	---	---
S-6	07/23/2009	15,000	4,400	1,100	360	1,000	---	---	---	---	---	---	---	---	30.56	20.66	---	9.90	1.13	-73
S-6	10/01/2009	21,000	5,100	1,300	420	1,200	---	---	---	---	---	---	---	---	30.56	20.86	---	9.70	0.58	16
S-6	01/28/2010	8,700	2,600	250	200	400	---	---	---	---	---	---	---	---	30.56	20.36	---	10.20	---	---
S-6	05/20/2010	4,400	1,600	82	85	150	---	---	---	---	---	---	---	---	30.56	20.68	---	9.88	1.08	64
S-6	08/31/2010	19,000	4,700	1,300	560	1,600	---	---	---	---	---	---	---	---	30.56	20.78	---	9.78	1.55	-88
S-6	12/29/2010	15,000	3,900	1,500	520	1,800	---	---	---	---	---	---	---	---	30.56	19.92	---	10.64	2.35	123
S-6	02/01/2011	16,000	4,000	1,700	600	1,800	---	---	---	---	---	---	---	---	30.56	19.05	---	11.51	0.61	-143
S-6	04/25/2011	23,000	7,800	3,500	960	3,000	---	---	---	---	---	---	---	---	30.56	17.73	---	12.83	0.76	-112
S-6	07/28/2011	17,000	5,500	1,500	600	1,600	---	---	---	---	---	---	---	---	30.56	17.62	---	12.94	0.77	-26
S-6	10/28/2011	42,000	11,000	4,500	1,600	5,900	---	---	---	---	---	---	---	---	30.56	18.12	---	12.44	4.64	-9
S-6	05/07/2012	38,000	14,000	4,800	1,300	4,400	---	---	---	---	---	---	---	---	30.56	17.50	---	13.06	2.32	116

Table 2

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-6	08/31/2012	96,000	6,700	2,500	1,900	6,200	---	---	---	---	---	---	---	---	30.56	18.42	---	12.14	0.62	146
S-6	12/11/2012	31,000	8,300	3,700	1,000	3,700	---	---	---	---	---	---	---	---	30.56	20.00	---	10.56	0.92/0.65	102/-16
S-6	01/24/2013	29,000	9,100	2,500	950	2,600	---	---	---	---	---	---	---	---	30.56	20.43	---	10.13	---	---
S-6	05/02/2013	10,000	1,800	1,100	430	1,100	---	---	---	---	---	---	---	---	30.56	22.98	---	7.58	---	---
S-6	08/09/2013	45,000	3,800	8,000	1,800	6,500	---	---	---	---	---	---	---	---	30.56	23.21	---	7.35	---	---
S-6	11/07/2013	33,000	3,600	3,800	1,000	3,700	---	---	---	---	---	---	---	---	30.56	25.24	---	5.32	---	---
S-6	01/31/2014	16,000	1,200	2,700	710	2,500	---	---	---	---	---	---	---	---	30.56	23.30	---	7.26	---	---
S-6	04/21/2014	15,000	1,100	3,100	650	2,300	---	---	---	---	---	---	---	---	30.56	22.98	---	7.58	---	---
S-6	07/31/2014	40,000 l	4,200	7,300	1,300	5,400	---	---	---	---	---	---	---	---	30.56	22.49	---	8.07	---	---
S-6	11/21/2014	48,000	3,600	8,900	1,700	7,000	---	---	---	---	---	---	---	---	30.56	22.49	---	8.07	---	---
S-6	01/22/2015	40,000 n	7,100	4,600	1,500	5,100	---	---	---	---	---	---	---	---	30.56	22.27	---	8.29	---	---
S-6	07/17/2015	<50 b	<0.50 b	<0.50 b	<0.50 b	<1.0 b	---	---	---	---	---	---	---	---	30.56	22.70	---	7.86	---	---
S-6	**09/29/2015**	**13,000**	**730**	**1,700**	**550**	**2,000**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**30.56**	**22.67**	**---**	**7.89**	**---**	**---**
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	2,900	380	110	26	260	85	---	---	---	---	---	---	---	27.21	23.62	---	3.59	---	---
S-8 (D)	07/21/1997	3,200	420	120	32	300	130	---	---	---	---	---	---	---	27.21	---	---	---	---	---
S-8	01/22/1998	3,800	790	140	42	330	160	---	---	---	---	---	---	---	27.21	23.52	---	3.69	---	---
S-8 (D)	01/22/1998	3,500	780	120	33	300	160	---	---	---	---	---	---	---	27.21	---	---	---	---	---
S-8	07/08/1998	3,600	1,800	<25	<25	<25	<125	---	---	---	---	---	---	---	27.21	21.52	---	5.69	---	---
S-8 (D)	07/08/1998	4,000	1,800	<25	<25	31	<125	---	---	---	---	---	---	---	27.21	---	---	---	---	---
S-8	10/26/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	27.21	22.01	---	5.20	---	---
S-8	01/28/1999	2,000	630	6.2	24	51	43	---	---	---	---	---	---	---	27.21	23.03	---	4.18	---	---
S-8	04/23/1999	1,050	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	1,800	550	6.45	15.0	40.4	<50.0	---	---	---	---	---	---	---	27.21	22.55	---	4.66	---	---
S-8	01/07/2000	1,300	600	11	29	48	<13	---	---	---	---	---	---	---	27.21	22.87	---	4.34	---	---
S-8	04/11/2000	342	101	4.42	4.24	14.7	21.4	---	---	---	---	---	---	---	27.21	21.86	---	5.35	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-8	07/19/2000	579	228	6.37	6.45	25	<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	1,090	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	1,900	250	28	39	180	---	<5.0	---	---	---	---	---	---	27.21	22.44	---	4.77	---	---
S-8	01/17/2002	830 d	140 d	11 d	12 d	89 d	---	<5.0 d	---	---	---	---	---	---	27.21	21.82	---	5.39	---	---
S-8	05/08/2002	210 d	34 d	1.7 d	4.1 d	15 d	---	<5.0 d	---	---	---	---	---	---	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	1,000	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 f,g	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 f	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	330 i	37 i	<1.0 i	5.1 i	<1.0 i	---	<1.0 i	---	---	---	---	<0.50 i	<1.0 i	35.85	23.37	---	12.48	1.6	28
S-8	11/11/2008	480 j	29 j	<1.0 j	5.4 j	<1.0 j	---	---	---	---	---	---	---	---	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	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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	---	---
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-8	07/28/2011	50	2.4	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	35.83	20.94	---	14.89	0.89	186
S-8	10/28/2011	<50	0.61	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	35.83	21.09	---	14.74	2.78	349
S-8	05/07/2012	<50	4.3	1.4	0.59	1.0	---	---	---	---	---	---	---	---	35.83	21.23	---	14.60	2.42	209
S-8	05/02/2013	53	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	35.83	24.65	---	11.18	---	---
S-8	04/21/2014	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	35.83	25.28	---	10.55	---	---
S-8	Well destroyed																			
S-9	12/22/1994	2,600	400	150	42	310	---	---	---	---	---	---	---	---	26.06	24.37	---	1.69	---	---
S-9	04/20/1995	1,900	400	130	51	200	---	---	---	---	---	---	---	---	26.06	23.49	---	2.57	---	---
S-9	10/04/1995	3,200	590	260	68	280	---	---	---	---	---	---	---	---	26.06	24.01	---	2.05	---	---
S-9	01/03/1996	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	26.06	---	---	---	---	---
S-9	04/11/1996	2,100	440	1,500	42	210	<25	---	---	---	---	---	---	---	26.06	23.61	---	2.45	---	---
S-9	07/11/1996	5,200	940	450	120	520	<50	---	---	---	---	---	---	---	26.06	23.78	---	2.28	---	---
S-9 (D)	07/11/1996	4,800	890	430	110	500	<50	---	---	---	---	---	---	---	26.06	---	---	---	---	---
S-9	10/02/1996	3,000	680	220	56	270	<62	---	---	---	---	---	---	---	26.06	24.31	---	1.75	---	---
S-9	01/22/1997	1,500	230	71	36	130	<12	---	---	---	---	---	---	---	26.06	23.08	---	2.98	---	---
S-9	07/21/1997	3,400	590	57	19	210	96	---	---	---	---	---	---	---	26.06	22.83	---	3.23	---	---
S-9	01/22/1998	2,600	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	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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	<50 d	<0.50 d	<0.50 d	<0.50 d	<0.50 d	---	<5.0 d	---	---	---	---	---	---	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	---	---
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	7,000	1,740	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	12,000	2,200	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	9,800 f,g	2,400	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 f	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	<50 i	2.4 i	<1.0 i	<1.0 i	<1.0 i	---	<1.0 i	---	---	---	---	<0.50 i	<1.0 i	34.70	22.90	---	11.80	1.1	92
S-9	11/11/2008	550 j	74 j	12 j	22 j	55.3 j	---	---	---	---	---	---	---	---	34.70	22.90	---	11.80	3.6	98

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-9	12/18/2008	1,500	280	43	71	182	---	---	---	---	---	---	---	---	34.34	22.81	---	11.53	---	---
S-9	01/05/2009	1,000	230	24	45	64	---	---	---	---	---	---	---	---	34.34	22.75	---	11.59	---	---
S-9	01/15/2009	2,100	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	2,300	450	60	110	260	---	---	---	---	---	---	---	---	34.34	22.12	---	12.22	0.65	79
S-9	05/18/2009	1,500	200	35	61	180	---	---	---	---	---	---	---	---	34.34	22.09	---	12.25	2.71	173
S-9	07/23/2009	1,700	430	49	110	190	---	---	---	---	---	---	---	---	34.34	22.48	---	11.86	0.21	346
S-9	10/01/2009	1,200	180	12	58	93	---	---	---	---	---	---	---	---	34.34	22.84	---	11.50	1.37	146
S-9	11/09/2009	1,400	260	21	67	81	---	---	---	---	---	---	---	---	34.34	22.63	---	11.71	0.42	---
S-9	12/01/2009	1,100	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	1,900	340	27	100	210	---	---	---	---	---	---	---	---	34.34	22.40	---	11.94	0.17	138
S-9	06/22/2010	1,400	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
S-9	04/25/2011	590	120	9.1	29	77	---	---	---	---	---	---	---	---	34.34	20.34	---	14.00	0.62	98
S-9	07/28/2011	1,700	280	47	88	230	---	<1.0	<10	<1.0	<1.0	<1.0	---	---	34.34	20.10	---	14.24	2.17	73
S-9	10/28/2011	1,900	370	32	110	260	---	---	---	---	---	---	---	---	34.34	20.54	---	13.80	2.18	122
S-9	05/07/2012	970	200	14	46	100	---	<2.5	<50	<2.5	<2.5	<2.5	---	---	34.34	20.49	---	13.85	0.91	78
S-9	12/11/2012	610	160	22	32	95	---	---	---	---	---	---	---	---	34.34	22.28	---	12.06	1.28/1.53	93/76
S-9	05/02/2013	1,400	230	53	65	160	---	<2.5	<50	<2.5	<2.5	<2.5	---	---	34.34	24.36	---	9.98	---	---
S-9	11/07/2013	1,200	150	15	32	84	---	---	---	---	---	---	---	---	34.34	24.92	---	9.42	---	---
S-9	04/21/2014	1,100	120	25	33	83	---	<1.3	<25	<1.3	<1.3	<1.3	---	---	34.34	24.90	---	9.44	---	---
S-9	11/21/2014	1,600	250	15	64	89	---	---	---	---	---	---	---	---	34.34	24.55	---	9.79	---	---
S-9	Well destroyed																			
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	1,100	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	0.70	29	69	<2.5	---	---	---	---	---	---	---	28.04	24.50	---	3.54	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-10	01/22/1998	1,500	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	1,100 d	3.5 d	<0.50 d	55 d	46 d	---	<5.0 d	---	---	---	---	---	---	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	1,100	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	---	---
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	7.0	3.3	---	<0.50	---	---	---	---	---	---	36.35	23.09	---	13.26	---	---
S-10	05/29/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	36.35	23.20	---	13.15	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-10	08/15/2007	64 f,g	0.15 h	<1.0	1.4	0.72 h	---	<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 f	<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-10	07/28/2011	<50	<0.50	<1.0	0.92	<1.0	---	<1.0	<10	<1.0	<1.0	<1.0	---	---	36.35	21.39	---	14.96	0.32	227
S-10	10/28/2011	52	<0.50	<0.50	2.7	<1.0	---	---	---	---	---	---	---	---	36.35	21.68	---	14.67	2.68	327
S-10	05/07/2012	50	0.84	<0.50	1.5	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	36.35	22.00	---	14.35	2.51	220
S-10	05/02/2013	100	<0.50	<0.50	0.77	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	36.35	25.53	---	10.82	---	---
S-10	04/21/2014	180	<0.50	<0.50	0.71	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	36.35	26.20	---	10.15	---	---
S-10	Well destroyed																			
S-12	12/17/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	36.44	24.58	---	11.86	---	---
S-12	02/08/2008	55 f	<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 f	<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	<50 i	0.95 i	<1.0 i	<1.0 i	<1.0 i	---	<1.0 i	---	---	---	---	<0.50 i	<1.0 i	36.44	24.85	---	11.59	0.2	37
S-12	11/11/2008	65 j	8.1 j	2.2 j	4.8 j	1.5 j	---	---	---	---	---	---	---	---	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	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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
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-12	07/28/2011	<50	0.96	<0.50	2.8	<1.0	---	---	---	---	---	---	---	---	36.44	22.05	---	14.39	3.01	163
S-12	10/28/2011	99	15	<0.50	14	<1.0	---	---	---	---	---	---	---	---	36.44	22.50	---	13.94	3.67	91
S-12	05/07/2012	180	25	<0.50	19	1.0	---	---	---	---	---	---	---	---	36.44	22.50	---	13.94	0.88	66
S-12	05/02/2013	190	1.2	0.64	0.71	3.8	---	---	---	---	---	---	---	---	36.44	26.48	---	9.96	---	---
S-12	04/21/2014	1,100	5.0	3.3	9.5	38	---	---	---	---	---	---	---	---	36.44	27.08	---	9.36	---	---
S-12	Well destroyed																			
S-13	12/17/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	35.16	23.33	---	11.83	---	---
S-13	02/08/2008	14,000 f	1,900	1,300	280	3,000	---	<10	---	---	---	---	<5.0	<10	35.16	23.01	---	12.15	---	---
S-13	05/08/2008	18,000 f	2,800	3,400	550	3,500	---	<10	---	---	---	---	<5.0	<10	35.16	23.31	---	11.85	---	---
S-13	08/14/2008	16,000	2,400	3,100	580	3,100	---	<20	---	---	---	---	<10	<20	35.16	23.31	---	11.85	---	---
S-13	11/11/2008	16,000 i	2,400 i	2,800 i	270 i	2,500 i	---	<50 i	---	---	---	---	<25 i	<50 i	35.16	23.60	---	11.56	0.8	-48
S-13	11/11/2008	4,400 j	560 j	630 j	88 j	530 j	---	---	---	---	---	---	---	---	35.16	23.60	---	11.56	1.2	-60
S-13	12/18/2008	3,900	530	560	76	510	---	---	---	---	---	---	---	---	35.05	23.61	---	11.44	---	---
S-13	01/05/2009	8,200	700	670	67	1,000	---	---	---	---	---	---	---	---	35.05	23.54	---	11.51	---	---
S-13	01/15/2009	5,400	610	610	48	950	---	---	---	---	---	---	---	---	35.05	23.10	---	11.95	---	---
S-13	02/12/2009	6,300	800	1,000	110	870	---	---	---	---	---	---	---	---	35.05	22.36	---	12.69	---	---
S-13	03/12/2009	14,000	1,700	2,300	190	2,400	---	---	---	---	---	---	---	---	35.05	23.20	---	11.85	---	---
S-13	04/09/2009	35,000	510	7,800	1,000	4,300	---	---	---	---	---	---	---	---	35.05	23.02	---	12.03	25.9	433
S-13	05/18/2009	35,000	820	7,000	1,100	6,600	---	---	---	---	---	---	---	---	35.05	23.07	---	11.98	5.21	83
S-13	07/23/2009	18,000	1,800	3,000	480	2,500	---	---	---	---	---	---	---	---	35.05	23.51	---	11.54	1.23	148
S-13	10/01/2009	2,000	330	87	33	5.2	---	---	---	---	---	---	---	---	35.05	23.61	---	11.44	1.23	413
S-13	11/09/2009	15,000	1,100	1,500	300	1,800	---	---	---	---	---	---	---	---	35.05	23.41	---	11.64	0.71	---
S-13	12/01/2009	1,600	210	190	34	36	---	---	---	---	---	---	---	---	35.05	23.15	---	11.90	16.3	231
S-13	01/28/2010	5,900	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	16,000	570	3,000	260	2,000	---	---	---	---	---	---	---	---	35.05	23.20	---	11.85	1.10	412

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-13	08/31/2010	3,000	140	490	83	540	---	---	---	---	---	---	---	---	35.05	24.00	---	11.05	0.90	400
S-13	12/29/2010	8,700	600	1,700	260	1,700	---	---	---	---	---	---	---	---	35.05	23.48	---	11.57	0.69	231
S-13	02/01/2011	2,100	170	390	75	410	---	---	---	---	---	---	---	---	35.05	22.71	---	12.34	1.10	248
S-13	04/25/2011	6,000	600	1,800	270	1,300	---	---	---	---	---	---	---	---	35.05	21.15	---	13.90	0.19	69
S-13	07/28/2011	3,700	320	430	160	790	---	---	---	---	---	---	---	---	35.05	20.64	---	14.41	2.65	44
S-13	10/28/2011	8,100	600	830	380	1,700	---	---	---	---	---	---	---	---	35.05	21.47	---	13.58	3.67	1
S-13	05/07/2012	5,100	540	670	320	1,100	---	---	---	---	---	---	---	---	35.05	21.35	---	13.70	0.60	-176
S-13	12/11/2012	5,900	420	580	260	950	---	---	---	---	---	---	---	---	35.05	22.91	---	12.14	1.07/0.80	-70/-63
S-13	05/02/2013	1,300	130	95	49	85	---	---	---	---	---	---	---	---	35.05	25.24	---	9.81	---	---
S-13	11/07/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	35.05	k	k	k	---	---
S-13	03/14/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	35.05	26.22	0.25	9.03	---	---
S-13	04/21/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	35.05	26.09	0.39	9.27	---	---
S-13	07/31/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	35.05	25.25	---	9.80	---	---
S-13	09/22/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	35.05	25.31	---	9.74	---	---
S-13	10/03/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	35.05	25.35	---	9.70	---	---
S-13	10/10/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	35.05	25.33	---	9.72	---	---
S-13	10/17/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	35.05	25.31	---	9.74	---	---
S-13	10/24/2014	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	35.05	---	---	---	---	---
S-13	11/21/2014	7,000	330	270	120	590	---	---	---	---	---	---	---	---	35.05	25.35	---	9.70	---	---
S-13	11/21/2014	7,000	330	270	120	590	---	---	---	---	---	---	---	---	35.05	18.33	---	16.72	---	---
S-13	01/22/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	35.05	25.01	---	10.04	---	---
S-13	Well destroyed																			
S-14	12/17/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	34.94	22.68	---	12.26	---	---
S-14	02/08/2008	5,300 f	380	300	34	970	---	<10	---	---	---	---	<5.0	<10	34.94	22.82	---	12.12	---	---
S-14	05/08/2008	4,300 f	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	8,500 i	680 i	270 i	<25 i	1,110 i	---	---	---	---	---	---	---	---	35.19	23.13	---	12.06	0.60	115
S-14R	11/11/2008	4,300 j	270 j	190 j	43 j	470 j	---	---	---	---	---	---	---	---	35.19	23.13	---	12.06	1.5	116
S-14R	12/18/2008	7,800	530	640	79	1,010	---	---	---	---	---	---	---	---	34.95	22.80	---	12.15	---	---
S-14R	01/05/2009	2,100	89	86	19	140	---	---	---	---	---	---	---	---	34.95	22.80	---	12.15	---	---
S-14R	01/15/2009	4,800	430	540	83	730	---	---	---	---	---	---	---	---	34.95	22.57	---	12.38	---	---
S-14R	02/12/2009	1,000	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	2,300	230	240	47	250	---	---	---	---	---	---	---	---	34.95	22.35	---	12.60	0.30	430

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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-14R	07/28/2011	970	100	80	51	110	---	---	---	---	---	---	---	---	34.95	20.36	---	14.59	0.56	151
S-14R	10/28/2011	420	47	38	25	67	---	---	---	---	---	---	---	---	34.95	20.68	---	14.27	3.97	321
S-14R	05/07/2012	630	68	62	40	120	---	---	---	---	---	---	---	---	34.95	20.77	---	14.18	2.47	238
S-14R	05/02/2013	3,200	200	130	95	200	---	---	---	---	---	---	---	---	34.95	24.49	---	10.46	---	---
S-14R	04/21/2014	3,700	190	160	99	290	---	---	---	---	---	---	---	---	34.95	24.99	---	9.96	---	---
S-14R	Well destroyed																			
S-15	12/17/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	35.34	23.00	---	12.34	---	---
S-15	02/08/2008	55,000 f	6,700	13,000	1,100	9,800	---	<10	---	---	---	---	<5.0	<10	35.34	22.71	---	12.63	---	---
S-15	05/08/2008	53,000 f	6,300	13,000	1,500	7,500	---	<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	6,000 f	670	730	88	1,290	---	<5.0	---	---	---	---	<2.5	<5.0	36.08	23.52	---	12.56	---	---
S-16	05/08/2008	3,200 f	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	21,000	1,300	1,300	160	2,850	---	<5.0	---	---	---	---	<2.5	<5.0	35.49	23.33	---	12.16	---	---
S-17	08/14/2008	14,000	1,700	1,700	310	2,250	---	<10	---	---	---	---	<5.0	<10	35.49	23.50	---	11.99	---	---
S-17	11/11/2008	7,200 i	1,600 i	820 i	140 i	760 i	---	<5.0 i	---	---	---	---	<2.5 i	<5.0 i	35.49	23.70	---	11.79	---	---
S-17	11/11/2008	32,000 j	2,500 j	3,100 j	820 j	4,000 j	---	<25 j	---	---	---	---	<12 j	<25 j	35.49	23.70	---	11.79	---	---
S-17	01/05/2009	15,000	790	700	150	1,200	---	<10	---	---	---	---	<5.0	<10	35.50	23.66	---	11.84	---	---
S-17	01/15/2009	2,300	220	170	19	300	---	---	---	---	---	---	---	---	35.50	23.37	---	12.13	---	---
S-17	02/12/2009	4,700	750	200	37	23	---	---	---	---	---	---	---	---	35.50	23.66	---	11.84	---	---
S-17	03/12/2009	3,300	640	370	81	290	---	---	---	---	---	---	---	---	35.50	23.24	---	12.26	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-17	04/09/2009	1,300	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	3,900	480	410	160	480	---	---	---	---	---	---	---	---	35.50	23.70	---	11.80	0.15	34
S-17	10/01/2009	1,300	32	24	3.1	72	---	---	---	---	---	---	---	---	35.50	23.64	---	11.86	1.30	204
S-17	11/09/2009	5,300	260	330	56	500	---	---	---	---	---	---	---	---	35.50	23.52	---	11.98	0.18	---
S-17	12/01/2009	3,300	190	210	52	240	---	---	---	---	---	---	---	---	35.50	23.41	---	12.09	0.95	450
S-17	01/28/2010	3,500	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	1,900	120	110	52	260	---	---	---	---	---	---	---	---	35.50	23.92	---	11.58	1.32	370
S-17	12/29/2010	2,600	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	2,000	150	71	77	210	---	---	---	---	---	---	---	---	35.50	21.44	---	14.06	0.23	82
S-17	07/28/2011	3,400	270	98	170	370	---	---	---	---	---	---	---	---	35.50	21.06	---	14.44	1.45	70
S-17	10/28/2011	270	58	5.3	23	28	---	---	---	---	---	---	---	---	35.50	21.51	---	13.99	1.19	221
S-17	05/07/2012	980	110	3.6	66	100	---	---	---	---	---	---	---	---	35.50	21.50	---	14.00	0.62	84
S-17	05/02/2013	570	62	20	19	49	---	---	---	---	---	---	---	---	35.50	25.49	---	10.01	---	---
S-17	04/21/2014	2,500	140	120	98	310	---	---	---	---	---	---	---	---	35.50	25.91	---	9.59	---	---
S-17	Well destroyed																			
S-18	06/19/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	35.04	22.94	---	12.10	---	---
S-18	06/25/2008	58,000	2,200	5,600	880	10,200	---	<10	---	---	---	---	<5.0	<10	35.04	22.92	---	12.12	---	---
S-18	08/14/2008	25,000	2,500	4,500	860	5,800	---	<50	---	---	---	---	<25	<50	35.04	23.08	---	11.96	---	---
S-18	11/11/2008	24,000 i	2,400 i	3,300 i	820 i	3,800 i	---	<25 i	---	---	---	---	<12 i	<25 i	35.04	23.30	---	11.74	---	---
S-18	11/11/2008	43,000 j	3,900 j	5,500 j	1,300 j	6,500 j	---	<50 j	---	---	---	---	<25 j	<50 j	35.04	23.30	---	11.74	---	---
S-18	01/05/2009	20,000	830	1,000	290	1,400	---	<50	---	---	---	---	<25	<50	35.03	23.16	---	11.87	---	---
S-18	01/15/2009	8,200	690	790	150	1,230	---	---	---	---	---	---	---	---	35.03	22.97	---	12.06	---	---
S-18	02/12/2009	13,000	1,200	1,400	330	940	---	---	---	---	---	---	---	---	35.03	23.29	---	11.74	---	---
S-18	03/12/2009	52,000	5,300	9,000	1,600	10,000	---	---	---	---	---	---	---	---	35.03	22.85	---	12.18	---	---
S-18	04/09/2009	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	35.03	22.79	---	12.24	---	---
S-18	05/18/2009	6,700	320	1,100	200	1,000	---	---	---	---	---	---	---	---	35.03	22.81	---	12.22	6.51	377
S-18	07/23/2009	8,900	500	890	290	1,600	---	---	---	---	---	---	---	---	35.03	22.91	---	12.12	0.20	---
S-18	10/01/2009	1,800	49	5.5	5.3	<5.0	---	---	---	---	---	---	---	---	35.03	23.65	---	11.38	6.25	557
S-18	11/09/2009	1,100	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	1,200	170	91	18	68	---	---	---	---	---	---	---	---	35.03	22.86	---	12.17	1.90	---
S-18	05/20/2010	3,900	500	690	79	240	---	---	---	---	---	---	---	---	35.03	23.12	---	11.91	1.77	169
S-18	06/22/2010	13,000	1,700	2,800	200	1,000	---	---	---	---	---	---	---	---	35.03	23.10	---	11.93	0.58	499

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-18	08/31/2010	6,600	970	1,100	230	1,000	---	---	---	---	---	---	---	---	35.03	23.55	---	11.48	1.23	258
S-18	12/29/2010	8,500	1,000	750	410	1,800	---	---	---	---	---	---	---	---	35.03	23.23	---	11.80	0.79	70
S-18	02/01/2011	2,100	210	190	87	180	---	---	---	---	---	---	---	---	35.03	22.52	---	12.51	1.13	220
S-18	04/25/2011	13,000	2,100	2,000	470	2,300	---	---	---	---	---	---	---	---	35.03	21.00	---	14.03	0.52	85
S-18	07/28/2011	8,200	1,200	1,000	290	1,200	---	---	---	---	---	---	---	---	35.03	20.56	---	14.47	1.57	27
S-18	10/28/2011	9,000	1,200	480	430	1,900	---	---	---	---	---	---	---	---	35.03	21.11	---	13.92	1.45	147
S-18	05/07/2012	4,700	710	310	310	870	---	---	---	---	---	---	---	---	35.03	21.20	---	13.83	0.55	-68
S-18	05/02/2013	5,000	720	280	220	480	---	---	---	---	---	---	---	---	35.03	24.95	---	10.08	---	---
S-18	04/21/2014	1,400	240	190	70	230	---	---	---	---	---	---	---	---	35.03	25.61	---	9.42	---	---
S-18	Well destroyed																			
S-19	11/07/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	34.78	22.73	---	12.05	---	---
S-19	11/11/2008	7,100 i	500 i	600 i	25 i	1,010 i	---	---	---	---	---	---	---	---	34.78	22.87	---	11.91	1.0	62
S-19	11/11/2008	2,300 j	110 j	160 j	43 j	280 j	---	---	---	---	---	---	---	---	34.78	22.87	---	11.91	1.3	71
S-19	12/18/2008	2,900	190	300	41	420	---	---	---	---	---	---	---	---	34.57	22.60	---	11.97	---	---
S-19	01/05/2009	3,400	230	250	50	380	---	---	---	---	---	---	---	---	34.57	22.56	---	12.01	---	---
S-19	01/15/2009	3,100	340	540	70	440	---	---	---	---	---	---	---	---	34.57	22.31	---	12.26	---	---
S-19	02/12/2009	1,300	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	1,300	140	190	32	190	---	---	---	---	---	---	---	---	34.57	22.02	---	12.55	0.57	106
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	1,500	160	170	33	120	---	---	---	---	---	---	---	---	34.57	22.66	---	11.91	0.52	301
S-19	11/09/2009	1,600	140	160	41	160	---	---	---	---	---	---	---	---	34.57	22.44	---	12.13	0.26	---
S-19	12/01/2009	1,600	150	180	45	170	---	---	---	---	---	---	---	---	34.57	22.62	---	11.95	0.79	161
S-19	01/28/2010	2,600	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	1,800	210	270	100	320	---	---	---	---	---	---	---	---	34.57	21.78	---	12.79	1.08	21
S-19	04/25/2011	2,100	290	360	140	470	---	---	---	---	---	---	---	---	34.57	20.42	---	14.15	0.25	115
S-19	07/28/2011	2,400	240	380	140	450	---	---	---	---	---	---	---	---	34.57	20.16	---	14.41	1.17	80
S-19	10/28/2011	3,600	210	420	190	750	---	---	---	---	---	---	---	---	34.57	20.41	---	14.16	1.73	160
S-19	05/07/2012	3,400	220	480	210	880	---	---	---	---	---	---	---	---	34.57	20.51	---	14.06	2.54	244
S-19	12/11/2012	1,700	110	240	100	440	---	---	---	---	---	---	---	---	34.57	22.05	---	12.52	0.89/2.21	81/52
S-19	05/02/2013	1,500	88	89	55	160	---	---	---	---	---	---	---	---	34.57	24.15	---	10.42	---	---
S-19	11/07/2013	170,000	1,200	7,300	3,800	22,000	---	---	---	---	---	---	---	---	34.57	k	k	k	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-19	04/21/2014	32,000	580	1,400	940	4,300	---	---	---	---	---	---	---	---	34.57	24.95	---	9.62	---	---
S-19	07/31/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	34.57	24.22	0.20	10.51	---	---
S-19	11/21/2014	25,000	420	880	550	2,500	---	---	---	---	---	---	---	---	34.57	24.40	---	10.17	---	---
S-19	Well destroyed																			
S-20	11/07/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	34.50	22.80	---	11.70	---	---
S-20	11/11/2008	13,000 i	1,300 i	1,600 i	80 i	1,920 i	---	---	---	---	---	---	---	---	34.50	22.90	---	11.60	0.8	-39
S-20	11/11/2008	16,000 j	1,100 j	1,800 j	220 j	1,930 j	---	---	---	---	---	---	---	---	34.50	22.90	---	11.60	2.6	-64
S-20	01/05/2009	17,000	1,500	1,700	320	1,900	---	---	---	---	---	---	---	---	34.50	22.78	---	11.72	---	---
S-20	02/12/2009	11,000	1,300	1,400	230	1,600	---	---	---	---	---	---	---	---	34.50	22.80	---	11.70	2.6	-64
S-20	03/12/2009	19,000	2,700	3,200	390	3,100	---	---	---	---	---	---	---	---	34.50	22.40	---	12.10	---	---
S-20	04/09/2009	8,200	80	480	220	490	---	---	---	---	---	---	---	---	34.50	22.90	---	11.60	13.80	578
S-20	05/18/2009	21,000	970	1,500	630	4,800	---	---	---	---	---	---	---	---	34.50	22.42	---	12.08	4.58	197
S-20	07/23/2009	41,000	4,900	2,900	990	7,300	---	---	---	---	---	---	---	---	34.50	22.73	---	11.77	0.27	419
S-20	10/01/2009	1,800	140	39	33	39	---	---	---	---	---	---	---	---	34.50	23.00	---	11.50	0.85	533
S-20	11/09/2009	21,000	1,600	740	300	2,500	---	---	---	---	---	---	---	---	34.50	22.72	---	11.78	1.67	---
S-20	12/01/2009	12,000	1,100	450	160	1,200	---	---	---	---	---	---	---	---	34.50	22.61	---	11.89	1.38	347
S-20	01/28/2010	20,000	2,000	1,600	260	2,000	---	---	---	---	---	---	---	---	34.50	22.51	---	11.99	4.40	---
S-20	05/20/2010	4,300	1,100	110	26	61	---	---	---	---	---	---	---	---	34.50	22.90	---	11.60	8.96	555
S-20	06/22/2010	7,100	1,300	550	120	550	---	---	---	---	---	---	---	---	34.50	23.19	---	11.31	11.64	637
S-20	08/31/2010	9,600	1,800	1,400	230	580	---	---	---	---	---	---	---	---	34.50	23.13	---	11.37	0.94	529
S-20	12/29/2010	19,000	2,000	3,100	860	3,200	---	---	---	---	---	---	---	---	34.50	22.72	---	11.78	0.92	193
S-20	02/01/2011	26,000	3,900	7,100	1,300	5,800	---	---	---	---	---	---	---	---	34.50	22.04	---	12.46	1.03	390
S-20	04/25/2011	41,000	6,600	11,000	2,000	9,800	---	---	---	---	---	---	---	---	34.50	20.60	---	13.90	0.43	156
S-20	07/28/2011	34,000	4,200	5,300	1,400	6,300	---	---	---	---	---	---	---	---	34.50	20.30	---	14.20	1.25	-15
S-20	10/28/2011	17,000	1,500	1,900	1,000	3,400	---	---	---	---	---	---	---	---	34.50	20.78	---	13.72	1.28	431
S-20	05/07/2012	9,900	760	1,200	790	2,000	---	---	---	---	---	---	---	---	34.50	20.54	---	13.96	1.92	-106
S-20	12/11/2012	9,700	630	1,000	720	1,500	---	---	---	---	---	---	---	---	34.50	22.29	---	12.21	0.82/1.67	-11/-43
S-20	05/02/2013	4,500	380	220	240	300	---	---	---	---	---	---	---	---	34.50	24.50	---	10.00	---	---
S-20	11/07/2013	4,000	420	290	60	330	---	---	---	---	---	---	---	---	34.50	25.24	---	9.26	---	---
S-20	04/21/2014	3,800	480	350	50	350	---	---	---	---	---	---	---	---	34.50	25.15	---	9.35	---	---
S-20	11/21/2014	4,800	560	340	98	430	---	---	---	---	---	---	---	---	34.50	24.54	---	9.96	---	---
S-20	Well destroyed																			
S-21A	11/07/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	35.81	23.73	---	12.08	---	---
S-21A	11/11/2008	96,000 i	6,100 i	11,000 i	1,700 i	10,500 i	---	---	---	---	---	---	---	---	35.81	23.86	---	11.95	1.6	-42
S-21A	11/11/2008	87,000 j	6,300 j	13,000 j	1,700 j	10,300 j	---	---	---	---	---	---	---	---	35.81	23.86	---	11.95	1.8	-51

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-21A	12/18/2008	17,000	3,700	1,200	170	47	---	---	---	---	---	---	---	---	35.80	23.91	---	11.89	---	---
S-21A	01/05/2009	28,000	3,100	2,900	450	1,100	---	---	---	---	---	---	---	---	35.80	23.78	---	12.02	---	---
S-21A	01/15/2009	9,700	2,100	290	45	<25	---	---	---	---	---	---	---	---	35.80	23.53	---	12.27	---	---
S-21A	02/12/2009	19,000	3,100	2,500	330	500	---	---	---	---	---	---	---	---	35.80	23.83	---	11.97	---	---
S-21A	03/12/2009	31,000	2,600	3,800	810	3,700	---	---	---	---	---	---	---	---	35.80	23.35	---	12.45	---	---
S-21A	04/09/2009	7,800	700	750	130	<25	---	---	---	---	---	---	---	---	35.80	24.00	---	11.80	0.91	304
S-21A	05/18/2009	15,000	1,800	2,200	390	1,900	---	---	---	---	---	---	---	---	35.80	23.46	---	12.34	2.37	529
S-21A	07/23/2009	51,000	4,800	7,100	1,100	7,000	---	---	---	---	---	---	---	---	35.80	23.85	---	11.95	0.14	-3
S-21A	10/01/2009	18,000	2,300	2,200	310	2,400	---	---	---	---	---	---	---	---	35.80	24.06	---	11.74	7.92	575
S-21A	11/09/2009	41,000	3,500	5,800	600	4,800	---	---	---	---	---	---	---	---	35.80	23.73	---	12.07	0.34	---
S-21A	12/01/2009	43,000	3,100	6,700	640	4,900	---	---	---	---	---	---	---	---	35.80	23.60	---	12.20	2.55	350
S-21A	01/28/2010	65,000	3,900	9,900	970	6,600	---	---	---	---	---	---	---	---	35.80	23.54	---	12.26	1.43	---
S-21A	05/20/2010	6,000	670	760	110	150	---	---	---	---	---	---	---	---	35.80	23.92	---	11.88	1.37	541
S-21A	06/22/2010	16,000	690	2,000	370	2,300	---	---	---	---	---	---	---	---	35.80	23.87	---	11.93	2.33	439
S-21A	08/31/2010	5,000	230	420	190	990	---	---	---	---	---	---	---	---	35.80	24.13	---	11.67	0.73	392
S-21A	12/29/2010	5,100	500	430	230	810	---	---	---	---	---	---	---	---	35.80	23.84	---	11.96	0.95	464
S-21A	02/01/2011	9,200	840	750	370	1,300	---	---	---	---	---	---	---	---	35.80	23.18	---	12.62	0.84	110
S-21A	04/25/2011	22,000	3,800	4,000	960	4,800	---	---	---	---	---	---	---	---	35.80	21.71	---	14.09	0.36	336
S-21A	07/28/2011	27,000	3,400	3,600	1,000	4,300	---	---	---	---	---	---	---	---	35.80	21.48	---	14.32	1.02	223
S-21A	10/28/2011	20,000	2,400	3,000	840	3,600	---	---	---	---	---	---	---	---	35.80	21.65	---	14.15	2.06	213
S-21A	05/07/2012	12,000	2,200	1,900	510	2,100	---	---	---	---	---	---	---	---	35.80	21.90	---	13.90	1.01	107
S-21A	12/11/2012	13,000	3,300	2,200	610	1,300	---	---	---	---	---	---	---	---	35.80	22.60	---	13.20	1.35/1.49	82/80
S-21A	05/02/2013	6,800	1,000	470	270	480	---	---	---	---	---	---	---	---	35.80	25.48	---	10.32	---	---
S-21A	11/07/2013	32,000	4,100	3,000	940	2,900	---	---	---	---	---	---	---	---	35.80	26.28	---	9.52	---	---
S-21A	04/21/2014	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	35.80	26.29	---	9.51	---	---
S-21A	11/21/2014	37,000	6,000	3,900	1,100	3,500	---	---	---	---	---	---	---	---	35.80	25.81	---	9.99	---	---
S-21A	Well destroyed																			
S-21B	11/07/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	35.79	23.68	---	12.11	---	---
S-21B	11/11/2008	3,200 i	49 i	300 i	93 i	510 i	---	---	---	---	---	---	---	---	35.79	23.80	---	11.99	0.4	-108
S-21B	11/11/2008	7,500 j	67 j	470 j	150 j	960 j	---	---	---	---	---	---	---	---	35.79	23.80	---	11.99	5.6	-135
S-21B	12/18/2008	5,300	36	310	120	770	---	---	---	---	---	---	---	---	35.76	23.72	---	12.04	---	---
S-21B	01/05/2009	5,400	35	200	93	600	---	---	---	---	---	---	---	---	35.76	23.70	---	12.06	---	---
S-21B	01/15/2009	3,300	30	150	78	470	---	---	---	---	---	---	---	---	35.76	23.43	---	12.33	---	---
S-21B	02/12/2009	2,800	12	100	69	450	---	---	---	---	---	---	---	---	35.76	23.81	---	11.95	---	---
S-21B	03/12/2009	2,300	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

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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-21B	07/28/2011	270	<0.50	0.84	3.0	11	---	---	---	---	---	---	---	---	35.76	21.32	---	14.44	2.86	127
S-21B	10/28/2011	220	<0.50	0.53	2.3	9.2	---	---	---	---	---	---	---	---	35.76	21.52	---	14.24	0.96	153
S-21B	05/07/2012	170	<0.50	0.62	1.5	7.6	---	---	---	---	---	---	---	---	35.76	22.04	---	13.72	0.75	100
S-21B	05/02/2013	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	35.76	25.59	---	10.17	---	---
S-21B	04/21/2014	52	1.7	2.4	0.80	4.7	---	---	---	---	---	---	---	---	35.76	26.14	---	9.62	---	---
S-21B	Well destroyed																			
S-22A	11/07/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	35.08	22.91	---	12.17	---	---
S-22A	11/11/2008	84,000 i	8,500 i	11,000 i	2,200 i	13,900 i	---	---	---	---	---	---	---	---	35.08	23.15	---	11.93	1.0	117
S-22A	11/11/2008	85,000 j	7,600 j	10,000 j	2,500 j	12,400 j	---	---	---	---	---	---	---	---	35.08	23.15	---	11.93	1.6	100
S-22A	12/18/2008	42,000	6,300	6,600	1,200	4,400	---	---	---	---	---	---	---	---	35.06	23.03	---	12.03	---	---
S-22A	01/05/2009	56,000	4,500	5,300	1,200	6,400	---	---	---	---	---	---	---	---	35.06	23.03	---	12.03	---	---
S-22A	01/15/2009	25,000	5,900	4,400	740	1,570	---	---	---	---	---	---	---	---	35.06	22.84	---	12.22	---	---
S-22A	02/12/2009	43,000	6,700	6,600	1,200	5,000	---	---	---	---	---	---	---	---	35.06	23.15	---	11.91	---	---
S-22A	03/12/2009	35,000	4,600	4,600	980	4,600	---	---	---	---	---	---	---	---	35.06	22.65	---	12.41	---	---
S-22A	04/09/2009	22,000	120	1,900	680	3,400	---	---	---	---	---	---	---	---	35.06	22.88	---	12.18	8.41	556
S-22A	05/18/2009	25,000	4,700	1,300	590	3,700	---	---	---	---	---	---	---	---	35.06	22.83	---	12.23	2.46	539
S-22A	07/23/2009	40,000	5,100	4,800	700	4,900	---	---	---	---	---	---	---	---	35.06	23.01	---	12.05	0.18	167
S-22A	10/01/2009	12,000	1,400	600	88	500	---	---	---	---	---	---	---	---	35.06	23.06	---	12.00	4.08	523
S-22A	11/09/2009	18,000	2,700	2,000	190	1,300	---	---	---	---	---	---	---	---	35.06	23.14	---	11.92	1.74	---
S-22A	12/01/2009	24,000	2,300	2,300	270	2,000	---	---	---	---	---	---	---	---	35.06	23.10	---	11.96	1.06	393
S-22A	01/28/2010	44,000	3,600	5,000	620	4,300	---	---	---	---	---	---	---	---	35.06	22.92	---	12.14	1.40	---
S-22A	05/20/2010	3,100	38	<10	<10	<10	---	---	---	---	---	---	---	---	35.06	23.22	---	11.84	0.48	423
S-22A	06/22/2010	2,400	110	15	4.3	6.6	---	---	---	---	---	---	---	---	35.06	23.51	---	11.55	6.10	542
S-22A	08/31/2010	5,000	690	600	78	350	---	---	---	---	---	---	---	---	35.06	23.52	---	11.54	1.03	553
S-22A	12/29/2010	13,000	1,300	1,800	490	2,100	---	---	---	---	---	---	---	---	35.06	23.17	---	11.89	0.70	476
S-22A	02/01/2011	13,000	1,800	3,100	640	2,800	---	---	---	---	---	---	---	---	35.06	22.45	---	12.61	0.89	453

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-22A	04/25/2011	23,000	2,600	5,500	1,200	6,200	---	---	---	---	---	---	---	---	35.06	21.37	---	13.69	0.40	506
S-22A	07/28/2011	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	35.06	---	---	---	---	---
S-22A	10/28/2011	31,000	1,800	4,700	1,600	8,100	---	---	---	---	---	---	---	---	35.06	20.98	---	14.08	1.33	342
S-22A	05/07/2012	40,000	2,000	7,200	2,000	12,000	---	---	---	---	---	---	---	---	35.06	20.96	---	14.10	2.50	230
S-22A	12/11/2012	54,000	1,800	8,900	2,400	14,000	---	---	---	---	---	---	---	---	35.06	23.42	---	11.64	0.99/1.96	-14/-21
S-22A	05/02/2013	53,000	1,800	6,800	2,200	11,000	---	---	---	---	---	---	---	---	35.06	24.71	---	10.35	---	---
S-22A	11/07/2013	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	35.06	---	---	---	---	---
S-22A	04/21/2014	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	35.06	---	---	---	---	---
S-22A	11/21/2014	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	35.06	---	---	---	---	---
S-22A	Well destroyed																			
S-22B	11/07/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	35.15	23.06	---	12.09	---	---
S-22B	11/11/2008	<50 i	<0.50 i	<1.0 i	<1.0 i	1.2 i	---	---	---	---	---	---	---	---	35.15	23.20	---	11.95	0.9	92
S-22B	11/11/2008	360 j	3.3 j	12 j	5.8 j	38 j	---	---	---	---	---	---	---	---	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-22B	07/28/2011	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	35.24	---	---	---	---	---
S-22B	10/28/2011	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	---	35.24	20.62	---	14.62	4.83	-12
S-22B	05/07/2012	<50	1.4	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	35.24	21.08	---	14.16	2.84	127
S-22B	05/02/2013	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	35.24	24.68	---	10.56	---	---
S-22B	04/21/2014	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	35.24	---	---	---	---	---
S-22B	Well destroyed																			
S-23	11/07/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	35.77	23.28	---	12.49	---	---

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-23	11/11/2008	8,800 i	640 i	610 i	82 i	1,260 i	---	---	---	---	---	---	---	---	35.77	23.58	---	12.19	---	---
S-23	11/11/2008	6,400 j	520 j	640 j	34 j	760 j	---	---	---	---	---	---	---	---	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	3,400	160	320	55	430	---	---	---	---	---	---	---	---	35.75	23.62	---	12.13	---	---
S-23	03/12/2009	4,600	210	460	71	610	---	---	---	---	---	---	---	---	35.75	23.03	---	12.72	---	---
S-23	04/09/2009	2,700	180	95	33	<5.0	---	---	---	---	---	---	---	---	35.75	22.98	---	12.77	1.24	567
S-23	05/18/2009	3,000	350	440	79	300	---	---	---	---	---	---	---	---	35.75	23.18	---	12.57	19.77	503
S-23	07/23/2009	2,900	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	3,200	84	330	90	400	---	---	---	---	---	---	---	---	35.75	23.51	---	12.24	0.28	---
S-23	12/01/2009	1,800	47	180	50	190	---	---	---	---	---	---	---	---	35.75	23.31	---	12.44	2.49	472
S-23	01/28/2010	3,000	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	1,300	45	82	56	240	---	---	---	---	---	---	---	---	35.75	23.61	---	12.14	1.39	313
S-23	02/01/2011	1,300	51	110	72	270	---	---	---	---	---	---	---	---	35.75	22.92	---	12.83	1.30	107
S-23	04/25/2011	1,300	53	110	81	400	---	---	---	---	---	---	---	---	35.75	21.62	---	14.13	0.96	321
S-23	07/28/2011	1,400	43	79	74	320	---	---	---	---	---	---	---	---	35.75	21.28	---	14.47	0.92	209
S-23	10/28/2011	1,600	43	83	92	370	---	---	---	---	---	---	---	---	35.75	21.50	---	14.25	1.82	161
S-23	05/07/2012	870	50	40	66	220	---	---	---	---	---	---	---	---	35.75	21.59	---	14.16	2.20	254
S-23	05/02/2013	540	24	15	5.6	25	---	---	---	---	---	---	---	---	35.75	25.04	---	10.71	---	---
S-23	04/21/2014	1,700	110	47	8.4	95	---	---	---	---	---	---	---	---	35.75	25.67	---	10.08	---	---
S-26	**09/20/2015**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**34.39**	**23.94**	**---**	**10.45**	**---**	**---**
S-26	**09/29/2015**	**<50**	**3.0**	**1.4**	**1.7**	**5.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**34.39**	**24.00**	**---**	**10.39**	**---**	**---**
AS-1	12/17/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	35.33	22.91	---	12.42	---	---
AS-1	02/08/2008	130 f	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 f	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	<0.50	<1.0	35.33	27.78	---	7.55	---	---
AS-1	Well destroyed																			
OW-1	04/09/2009	Well dry	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
OW-1	05/18/2009	Well dry	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
OW-1	Well destroyed																			

Notes:

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to July 25, 2001, analyzed by EPA Method 8015 unless otherwise noted.
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 analyzed by method noted
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 relative to mean sea level
SPH = Separate-phase hydrocarbon
GW = Groundwater
DO = Dissolved oxygen (pre-purge/post purge reading)
ORP = Oxygen redox potential (pre-purge/post purge reading)
µg/L = Micrograms per liter
ft = Feet
MSL = Mean sea level
mg/L = Milligrams per liter
mV = Millivolts
<x = Not detected at reporting limit x
--- = Not analyzed or available
(D) = Duplicate sample

a = Included in xylenes analysis
b = Analyzed outside of EPA recommended holding time
c = Depth to water measured from TOC; elevation unknown.
d = Grab sampled
e = Casing broken; TOC unknown.
f = Analyzed by EPA Method 8015B (M)
g = 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.
h = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
i = Pre-purge sample
j = Post-purge sample
k = SPH present; well purged prior to gauging with interface probe
l = Concentration reported is partially due to the presence of discrete peak of toluene.
m = Concentration reported is partially due to the presence of discrete peak of m,p-xylenes.
n = Concentration reported is partially due to the presence of discrete peaks of benzene, toluene, m,p-xylenes.

Table 2

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)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)

When SPHs are present, groundwater elevation is adjusted using the relation: Corrected groundwater elevation = TOC - Depth to Water + (0.8 x Hydrocarbon Thickness).
Beginning July 18, 2002, well elevations measured from TOC
Site wells surveyed March 5, 2002 by Virgil Chavez Land Surveying
Site wells surveyed December 18, 2007 by Virgil Chavez Land Surveying
Wells S-14R and S-19 through S-23 surveyed on November 11, 2008 by Virgil Chavez Land Surveying
Well S-5 surveyed on November 11, 2008 by Virgil Chavez Land Surveying
Well S-5 surveyed on October 8, 2009 by Virgil Chavez Land Surveying

Table 3

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
461 8th Street, Oakland, California

Well ID	Date	SPH measured with Interface Probe (feet)	SPH calculated volume (ml)	SPH removed by bailer/ skimmer (ml)	SPH removed by bailer/ skimmer (pounds)	Cumulative SPH removed by bailer/ skimmer (pounds)	SPH-absorbent sock initial weight (pounds)	SPH-absorbent sock final weight (pounds)	SPH removed by SPH-absorbent sock (pounds)	Cumulative SPH removed by SPH-absorbent socks (pounds)
S-5	11/07/2013	0.08	197	0	0.00	0.00	---	---	---	0.00
S-5	01/31/2014	0.91	2239	0	0.00	0.00	---	---	---	0.00
S-5	03/14/2014	1.15	2829	0	0.00	0.00	---	---	---	0.00
S-5	04/21/2014	1.14	2805	7571	12.43	12.43	0.72	2.08	1.36	1.36
S-5	07/31/2014	0.29	713	713	1.17	13.60	0.72	1.94	1.22	2.58
S-5	09/22/2014	0.15	369	369	0.61	14.21	0.31	0.68	0.37	2.95
S-5	10/03/2014	0.00	0	0	0.00	14.21	0.38	2.00	1.62	4.57
S-5	10/10/2014	0.00	0	0	0.00	14.21	0.36	0.60	0.24	4.81
S-5	10/17/2014	0.00	0	0	0.00	14.21	0.40	0.58	0.18	4.99
S-5	10/24/2014	0.00	0	0	0.00	14.21	0.42	0.50	0.08	5.07
S-5	11/21/2014	0.00	0	0	0.00	14.21	0.38	0.55	0.17	5.24
S-5	12/23/2014	0.00	0	0	0.00	14.21	0.38	1.08	0.70	5.94
S-5	**01/22/2015**	**0.00**	**0**	**0**	**0.00**	**14.21**	**---**	**---**	**0.00**	**5.94**
S-5	**07/17/2015**	**0.00**	**0**	**0**	**0.00**	**14.21**	**---**	**---**	**0.00**	**5.94**
S-13	11/07/2013	0.00	0	0	0.00	0.00	---	---	---	0.00
S-13	01/31/2014	---	---	0	0.00	0.00	---	---	---	0.00
S-13	03/14/2014	0.25	615	0	0.00	0.00	---	---	---	0.00
S-13	04/21/2014	0.39	959	960	1.58	1.58	0.72	1.78	1.06	1.06
S-13	07/31/2014	0.00	0	0	0.00	1.58	0.72	1.52	0.80	1.86
S-13	09/22/2014	0.00	0	0	0.00	1.58	0.29	0.36	0.07	1.93
S-13	10/03/2014	0.00	0	0	0.00	1.58	0.38	0.48	0.10	2.03
S-13	10/10/2014	0.00	0	0	0.00	1.58	0.40	0.45	0.05	2.08
S-13	10/17/2014	0.00	0	0	0.00	1.58	0.42	0.48	0.06	2.14
S-13	10/24/2014	Well inaccessible		0	0.00	1.58	---	---	0.00	2.14
S-13	11/21/2014	0.00	0	0	0.00	1.58	0.42	0.50	0.08	2.22

Table 3

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
461 8th Street, Oakland, California

Well ID	Date	SPH measured with Interface Probe (feet)	SPH calculated volume (ml)	SPH removed by bailer/ skimmer (ml)	SPH removed by bailer/ skimmer (pounds)	Cumulative SPH removed by bailer/ skimmer (pounds)	SPH-absorbent sock initial weight (pounds)	SPH-absorbent sock final weight (pounds)	SPH removed by SPH-absorbent sock (pounds)	Cumulative SPH removed by SPH-absorbent socks (pounds)
S-13	12/23/2014	0.00	0	0	0.00	1.58	0.38	0.52	0.14	2.36
S-13	**01/22/2015**	**0.00**	**0**	**0**	**0.00**	**1.58**	**---**	**---**	**0.00**	**2.36**
S-19	11/07/2013	0.01	25	0	0.00	0.00	---	---	---	0.00
S-19	01/31/2014	---	---	0	0.00	0.00	---	---	---	0.00
S-19	03/14/2014	---	---	0	0.00	0.00	---	---	---	0.00
S-19	04/21/2014	0.00	0	0	0.00	0.00	---	---	---	0.00
S-19	07/31/2014	0.02	49	49	0.08	0.08	---	---	---	0.00
S-19	09/22/2014	---	---	0	0.00	0.08	---	---	---	0.00
S-19	10/03/2014	---	---	0	0.00	0.08	---	---	---	0.00
S-19	10/10/2014	---	---	0	0.00	0.08	---	---	---	0.00
S-19	10/17/2014	---	---	0	0.00	0.08	---	---	---	0.00
S-19	10/24/2014	---	---	0	0.00	0.08	---	---	---	0.00
S-19	11/21/2014	0.00	0	0	0.00	0.08	0.31	1.52	1.21	1.21
S-19	12/23/2014	---	---	0	0.00	0.08	---	---	---	0.00

SPH removed by bailer/skimmer this event:	0.00	**SPH removed by ORCs this event:**	0.00
Cumulative SPH removed by bailer/skimmer:	15.87	**Cumulative SPH removed by ORCs:**	9.51

Total SPH removed this event (pounds):	0.00
Total SPH removed (pounds):	25.38

Notes:
SPH = Separate-phase hydrocarbon
ORC = PIG SPH-absorbent sock
ml = Milliliters

Appendix A
Permits

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 07/29/2015 By jamesy

Permit Numbers: W2015-0660 to W2015-0679
Permits Valid from 09/08/2015 to 09/25/2015

Application Id: 1434997891386 **City of Project Site:** Oakland
Site Location: 461 8th Street
Project Start Date: 09/08/2015 **Completion Date:** 09/25/2015
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: GHD - Scott Lewis **Phone:** 707-758-1660
10969 Trade Center Drive, Suite 107, Rancho Cordova, CA 95670
Property Owner: Signature Land Advisor, Inc. **Phone:** --
2201 Broadway #609, Okland, CA 94612
Client: Equlion Enterprises LLC dba Shell Products US **Phone:** --
20945 South Wilmington Avenue, Carson, CA 90810
Contact: Scott Lewis **Phone:** 707-933-2369
Cell: 707-249-0697

Total Due: $7808.00
Receipt Number: WR2015-0373 **Total Amount Paid:** $7808.00
Payer Name : Conestoga-Rovers or Paid By: CHECK **PAID IN FULL**
Assoicates or GHD after 7/1/15

Works Requesting Permits:

Well Destruction-Monitoring - 19 Wells
Driller: Cascade Drilling L.P. - Lic #: 938110 - Method: other **Work Total: $7543.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2015-0660	07/29/2015	12/07/2015	IP-1	8.00 in.	2.00 in.	8.00 ft	20.00 ft	1S/4W35L	W2008-0395	e0087038
W2015-0661	07/29/2015	12/07/2015	IP-2	8.00 in.	2.00 in.	8.00 ft	20.00 ft	1S/4W35L	W2008-0396	e0087039
W2015-0662	07/29/2015	12/07/2015	IP-3	8.00 in.	2.00 in.	8.00 ft	20.00 ft	1S/4W35L	W2008-0397	e0087040
W2015-0663	07/29/2015	12/07/2015	OW-1	8.00 in.	2.00 in.	11.00 ft	23.00 ft	1S/4W35L	W2008-0295	e060373
W2015-0664	07/29/2015	12/07/2015	S-10	10.00 in.	4.00 in.	19.00 ft	36.00 ft	1S/4W35L	No Records	No Records
W2015-0665	07/29/2015	12/07/2015	S-12	10.00 in.	4.00 in.	18.00 ft	35.00 ft	1S/4W35L	No Records	No Records
W2015-0666	07/29/2015	12/07/2015	S-13	10.00 in.	4.00 in.	16.00 ft	33.00 ft	1S/4W35L	No Records	No Records
W2015-0667	07/29/2015	12/07/2015	S-14R	10.00 in.	4.00 in.	18.00 ft	35.00 ft	1S/4W35L	W2008-0598	e066216
W2015-0668	07/29/2015	12/07/2015	S-17	8.00 in.	2.00 in.	17.00 ft	34.00 ft	1S/4W35L	W2008-0296	e060373
W2015-0669	07/29/2015	12/07/2015	S-18	8.00 in.	2.00 in.	16.00 ft	33.00 ft	1S/4W35L	W2008-0297	e060373
W2015-0670	07/29/2015	12/07/2015	S-19	10.00 in.	4.00 in.	18.00 ft	35.00 ft	1S/4W35L	W2008-0599	e067756
W2015-0671	07/29/2015	12/07/2015	S-20	10.00 in.	4.00 in.	18.00 ft	35.00 ft	1S/4W35L	W2008-0600	e067757
W2015-0672	07/29/2015	12/07/2015	S-21A	10.00 in.	4.00 in.	10.00 ft	27.00 ft	1S/4W35L	W2008-0601	e067741

Alameda County Public Works Agency - Water Resources Well Permit

W2015-0673	07/29/2015	12/07/2015	S-21B	10.00 in.	4.00 in.	23.00 ft	40.00 ft	1S/4W35L	W2008-0602	e067742
W2015-0674	07/29/2015	12/07/2015	S-22A	10.00 in.	4.00 in.	10.00 ft	27.00 ft	1S/4W35L	W2008-0603	e069049
W2015-0675	07/29/2015	12/07/2015	S-22B	40.00 in.	4.00 in.	23.00 ft	40.00 ft	1S/4W35L	W2008-0604	e069050
W2015-0676	07/29/2015	12/07/2015	S-23	10.00 in.	4.00 in.	18.00 ft	35.00 ft	1S/4W35L	W2008-0605	e069051
W2015-0677	07/29/2015	12/07/2015	S-8	10.00 in.	4.00 in.	13.00 ft	30.00 ft	1S/4W35L	No Records	No Records
W2015-0678	07/29/2015	12/07/2015	S-9	10.00 in.	4.00 in.	13.00 ft	30.00 ft	1S/4W35L	No Records	No Records

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

8. Remove the Christy box or similar structure. Destroy well(s) by overdrilling the upper 5ft. below ground surface (bgs) and then tremie grouting with neat cement. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil. After the seal has set, backfill the remaining hole by approved encroachment permit concrete material and asphalt material by Caltrans Spec or County/City Codes.

9. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

10. Remove the Christy box or similar structure. Pressure Grout with Cement (Less than 30 ft in depth). After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

11. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

12. Remove well by excavation. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

13. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

14. Remove the Christy box or similar structure. Tremie Grout with Cement (More than 30 ft in depth). After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

Well Destruction-Vapor monitoring well - 11 Wells
Driller: Cascade Drilling L.P. - Lic #: 938110 - Method: other **Work Total: $265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2015-0679	07/29/2015	12/07/2015	VP-10	3.50 in.	0.25 in.	9.00 ft	10.00 ft	1S4W35L	W2011-0578	e0140919
W2015-0679	07/29/2015	12/07/2015	VP-11	3.50 in.	0.25 in.	9.00 ft	10.00 ft	1S4W35L	W2011-0578	e0140917
W2015-0679	07/29/2015	12/07/2015	VP-12	3.50 in.	0.25 in.	9.00 ft	10.00 ft	1S4W35L	W2011-0578	e0140920
W2015-0679	07/29/2015	12/07/2015	VP-2	3.50 in.	0.25 in.	4.00 ft	5.00 ft	1S4W35L	W2007-1236	e065279
W2015-0679	07/29/2015	12/07/2015	VP-3	3.50 in.	0.25 in.	4.00 ft	5.00 ft	1S4W35L	W2007-1236	e065280
W2015-0679	07/29/2015	12/07/2015	VP-4	3.50 in.	0.25 in.	4.00 ft	5.00 ft	1S4W35L	W2007-1236	e065281
W2015-0679	07/29/2015	12/07/2015	VP-5	3.50 in.	0.25 in.	9.00 ft	10.00 ft	1S4W35L	W2011-0578	e0140906
W2015-0679	07/29/2015	12/07/2015	VP-6	3.50 in.	0.25 in.	9.00 ft	10.00 ft	1S4W35L	W2011-0578	e0140914
W2015-0679	07/29/2015	12/07/2015	VP-7	3.50 in.	0.25 in.	9.00 ft	10.00 ft	1S4W35L	W2011-0578	e0140915
W2015-	07/29/2015	12/07/2015	VP-8	3.50 in.	0.25 in.	9.00 ft	10.00 ft	1S4W35L	W2011-	e0140918

Alameda County Public Works Agency - Water Resources Well Permit

0679									0578	
W2015-0679	07/29/2015	12/07/2015	VP-9	3.50 in.	0.25 in.	9.00 ft	10.00 ft	1S4W35L	W2011-0578	e0140916

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

5. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

8. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

9. Remove the Christy box or similar structure. Overdrill or clean out to original depth. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

11. Vapor monitoring wells constructed with tubing shall be decomissioned by complete removal of tubing, grout seal, and fill material of sand or bentonite. Fill material may be removed by hand auger if material can be removed completely.

Vapor monitoring wells constructed with pvc pipe less than 2" shall be overdrilled to total depth.

Vapor monitoring wells constructed with 2" pvc pipe or larger may be grouted by tremie pipe (any depth) or pressure grouted (less than 30', 25 psi for 5 min).

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 08/13/2015 By jamesy

Permit Numbers: W2015-0767 to W2015-0769
Permits Valid from 09/07/2015 to 09/30/2015

Application Id:	1438278519776	**City of Project Site:**	Oakland
Site Location:	461 8th Street, Oakland CA		
	Installing 3 monitoring wells-2 in the parking lot and 1 in the sidewalk in the City's Right of way		
Project Start Date:	09/07/2015	**Completion Date:**	09/30/2015
Assigned Inspector:	Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org		
Applicant:	GHD Services, Inc. - Peter Schaefer 5900 Hollis Street, Suite A, Emeryville, CA 94608	**Phone:**	510-420-3319
Property Owner:	Signature Land Advisors, Inc. 2201 Broadway, Suite 604, Oakland, CA 94612	**Phone:**	--
Client:	Equilon Enterprises dba Shell Oil Products US (Perry Pineda) 20945 S Wilmington Ave, Carson, CA 90815	**Phone:**	--
Contact:	Cristina Alcon	**Phone:** **Cell:**	916-889-8915 --

	Total Due:	$1191.00
Receipt Number: WR2015-0401	**Total Amount Paid:**	$1191.00
Payer Name : GHD Services, Inc.	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 3 Wells
Driller: Cascade Drilling L.P. - Lic #: 938110 - Method: hstem **Work Total: $1191.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2015-0767	08/13/2015	12/06/2015	S-24	8.00 in.	2.00 in.	16.00 ft	35.00 ft
W2015-0768	08/13/2015	12/06/2015	S-25	8.00 in.	2.00 in.	16.00 ft	35.00 ft
W2015-0769	08/13/2015	12/06/2015	S-26	8.00 in.	2.00 in.	16.00 ft	35.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie.

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

11. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA, SUITE 4314 • OAKLAND, CALIFORNIA 94612-2032
Oakland Public Works Department
Bureau of Engineering & Construction - Right of Way Management
(510) 238-3171
FAX (510) 238-6412
TDD (510) 238-3254

Aug 28, 2015

RECEIVED
SEP 4 2015

Eighth Street Investors, LLC
2335 Broadway, Suite 200
Oakland, California 94612,

RE: 459 8th Street, ENMI15157, indenture agreement

Dear property owner:

The indenture agreement to allow installation of one (1) one new monitoring well, S-26, on Broadway adjacent to 459 8th Street is enclosed. Before the agreement becomes effective, the person(s) having the legal authority to do so, must sign and properly notarize this original document with a legible notary acknowledgement slip, and then return the document to this office to the attention of Chris Bacina for recordation with the County of Alameda.

There are $601.29 fees due for overtime needed to expedite the application. See invoice on reverse. Please arrange to pay these fees as soon as possible.

This indenture agreement is administrative only. Additional permit(s) required to do the work described. Also, additional permitting and fees of these individual lots may be required in the future. If you have any questions, please call Chris Bacina at 510-238-3759.

Sincerely,

Gus Amirzehni, P.E.
Division Manager
Public Works Department,
Bureau of Engineering & Construction

Enclosure

Permit ID #: ENMI15157
Invoice #: 2128708
Invoice Date: 08/25/2015 07:48:15

Period	Fee Item	Qty	Fee
FINAL	Overtime Plan Check Fee	2	$524.00
FINAL	Records Management Fee	0	$49.78
FINAL	Technology Enhancement Fee	0	$27.51
		Total Fee:	$601.29

JOB SITE

Permits for which no major inspection has been approv[redacted]ation or final.

CHECK REVERSE SIDE

CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA ▪ 2ND FLOOR ▪ OAKLAND, CA 94612

Planning and Building Department
www.oaklandnet.com

PH: 510-238-3891
FAX: 510-238-2263
TDD: 510-238-3254

Permit No: X1502039 OPW - Excavation **Filed Date:** 9/8/2015

Job Site: 459 8TH ST **Schedule Inspection by calling:** [redacted]

Parcel No: 001 020101500

District:

For SL; X; and CGS permits see **SPECIAL NOTE** below

Project Description: Install one new monitoring well S-26 on Broadway adjacent to 459 8th Street.
If working within 25' feet of a monument you must comply with State Law 8771, contact the Inspector prior to starting excavation: minimum $5,800.00 fine for non-compliance.
Permit valid 90 days.
Separate Obstruction permit required to reserve/block parking lane.
Set up PWA PRE-CON prior to start work: 510-238-3651.
Re: Proposal for a new five story building contianing 50 dwelling units, 83 bedrooms 38,250 sq.ft. and approximately 5,000 square feet of ground floor commercial.

Related Permits: ENMI15157

	Name	Applicant	Address	Phone	License #
wner:	EIGHTH STREET INVESTORS, LLC		2335 BROADWAY OAKLAND, CA	510-251-9270	
Contractor-Employee:		X			

PERMIT DETAILS: Building/Public Infrastructure/Excavation/NA

General Information

Excavation Type: Private Party
Special Paving Detail Required:
Tree Removal Involved:
Date Street Last Resurfaced:
Holiday Restriction (Nov 1 - Jan 1):
Worker's Compensation Company Name:
Limited Operation Area (7AM-9AM) And (4PM-6PM):
Worker's Compensation Policy #:

Key Dates

Approximate Start Date:
Approximate End Date:

TOTAL FEES TO BE PAID AT FILING: $434.91

Application Fee	$70.00	Excavation - Private Party Type	$309.00	Records Management Fee	$36.01
Technology Enhancement Fee	$19.90				

Plans Checked By _____ Date _____ Permit Issued By _____ Date 9.8

Finalized By _____ Date _____

SPECIAL NOTE

- For SL; X; and CGS permits Call PWA INSPECTION prior to start: 510-238-3651 or visit 4th FLOOR.
- SL and X permits valid 90 days; CGS permits valid 30 days

CITY OF OAKLAND

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

CONSTRUCTION LENDING AGENCY DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Section 8172, Civil Code).

Lender's Name _____

Branch Designation _____

Lender's Address _____

WORKERS' COMPENSATION DECLARATION

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

RRP ACKNOWLEDGMENT

EPA's Lead Renovation, Repair and Painting Rule (RRP Rule) requires that firms performing renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities and pre-schools built before 1978 have their firm certified by EPA or use certified renovators who are trained by EPA-approved training providers and follow lead-safe work practices. As the contractor preparing to do work on a Pre-1978 building, I have read the explanation of the RRP Rule and will ensure that any paint disturbing work will be done by or supervised by an RRP certified individual(s). Failure to follow this rule may result in enforcement action by the EPA. For additional information on complying with lead safety requirements, contact the Alameda County Healthy Homes Department at (510) 567-8280 or 1-800-253-2372 or visit http://www.achhd.org.

HAZARDOUS MATERIALS DECLARATION

I hereby affirm that the intended occupancy ☐WILL ☐ WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, and 25534 of the Health and Safety Code, as well as filing instructions were made available to you).

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

I hereby agree to save, defend, indemnify and keep harmless the City of Oakland and its officials, officers, employees, representatives, agents, and volunteers from all actions, claims, demands, litigation, or proceedings, including those for attorneys' fees, against the City in consequence of the granting of this permit or from the use or occupancy of the public right-of-way, public easement, or any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted. I further certify that I am the owner of the property involved in this permit or that I am fully authorized by the owner to access the property and perform the work authorized by this permit.

Name _____

Signature _____

☐ Contractor, or ☐Contractor's Agent Date

NOTICE: No activities related to the approved work, including storage/use of materials, is allowed within the public right-of-way without an encroachment permit. Dust control measures shall be used throughout all phases of construction.

Permits for which no major inspection has been approved within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

JOB SITE

CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA ▪ 2ND FLOOR ▪ OAKLAND, CA 94612

Planning and Building Department
www.oaklandnet.com

PH: 510-238-3891
FAX: 510-238-2263
TDD: 510-238-3254

Permit No: OB1500901 Obstruction **Filed Date:** 9/8/2015

Job Site: 459 8TH ST **Schedule Inspection by calling:** 510-238-3444

Parcel No: 001 020101500

District:

Project Description: Block 25' section of sidewalk per TSD-15-0155 to install one new monitoring well S-26 on Broadway adjacent to 459 8th Street. ~~Date to be determined~~.
If working within 25' feet of a monument you must comply with State Law 8771, contact the Inspector prior to starting excavation: minimum $5,800.00 fine for non-compliance.
Set up PWA PRE-CON prior to start work: 510-238-3651.
Re: Proposal for a new five story building contianing 50 dwelling units, 83 bedrooms 38,250 sq.ft. and approximately 5,000 square feet of ground floor commercial.

Related Permits: X1502039

	Name	Applicant	Address	Phone	License #
Owner:	EIGHTH STREET INVESTORS, LLC		2335 BROADWAY OAKLAND, CA	510-251-9270	
Contractor:	CASCADE DRILLING L P		P O BOX 1184 WOODINVILLE, WA	(425) 485-8908	938110
Owner-Agent:	PETER SCHAEFER	X	5900 HOLLIS ST EMERYVILLE, CA	510 420-3319	

PERMIT DETAILS: Building/Public Use/Activity/Obstructions

Work Information

Start Date: 09/14/2015
End Date: 09/14/2015

Obstruction Permit Type: Short Term (Max 14 Days)
Number of Meters (Metered Area):
Length Of Obstruction (Unmetered Area): 25

TOTAL FEES TO BE PAID AT FILING: $99.84

Application Fee	$70.00	Records Management Fee	$8.27	Short Term Permits	$17.00
Technology Enhancement Fee	$4.57				

Plans Checked By _____ Date _____ Permit Issued By _____ Date 9/8

Finalized By _____ Date _____

JOB SITE

CHECK REVERSE

For SL; X; and CGS permits see **SPECIAL NOTE** below

APPLICATION FOR TRAFFIC CONTROL PLAN

Transportation Services Fee: $123/hour
(Check or Money Order Only)

City of Oakland

Public Works Agency
Transportation Services Division

Check the box that apply:
- ☑ **New Application** (Utility, Excavation)
- ☐ **Renewal Application**
- ☐ **New Development w/ Mgmt Plan**
- ☐ **City of Oakland Project**

Please Read the Following Statements Below:

1. Processing time for a Traffic Control Application is a **minimum of 10 business days**.
2. Traffic Control review is scheduled **only** on **Tuesdays** and **Thursdays from 8:30am thru 11:30am by appointment only**.
3. A scheduled **appointment** by phone or email with a TSD staff member is necessary to discuss any and all traffic control application and plans.
4. Please **call ahead** to confirm that the traffic control application is ready for pickup @ 510-238-3467.
5. Businesses and residences adjacent to the work area must be provided **72 hour advance notice**.
6. **A completed** traffic control application may be faxed to (510) 238-7415.
7. **Incomplete** traffic control applications will not be processed and returned to applicant immediately.
8. The initial approval for a traffic control plan is 1 month, the renewal submittal may be approved up to 3 months.
9. The traffic control provision dates cannot be changed or extended if work has already commenced.
10. After receiving TSD approval of the traffic control application, contractor shall proceed to the Permit Center to **"Obstruction** obtain an obstruction permit.

Contact Person: Peter Schaefer Phone: (510) 420-3319

Name of Company: GHD Services Inc. Fax: (510) 420-9170

Address of Company: 5900 Hollis Street, Suite A, Emeryville, CA 94608

Describe type of work to be performed: Installing one groundwater monitoring well in the sidewalk. Installation will take a single day.
Work is associated with Equilon Enterprises LLC dba Shell Oil Products US's environmental investigation of the former Shell service station located at 461 8th St., Oakland

Location of work: Boadway Between* 7th Street And* 8th Street

Work date (s): 9/8/15 to 9/14/15 ☑ Mon-Fri ☐ Sat-Sun Work Hours: 9:00 AM to 4:00 PM

Please Follow these Steps in Order to Complete a Traffic Control Plan:

A. **Drawing Area**: The full width of all streets adjacent to the site MUST be included in the drawing. Include the entire block in which your work is located for every street that is adjacent to your site.

B. **Include Street Names, Direction of Traffic on the Street, and North Arrow**

C. **Show Existing Number of Lanes in all Directions** (with any pavement arrows)

D. **Check the Box(s) that Apply:** All checked items **MUST** be shown on the drawing

- ☑ Lane Closure
- ☐ Street Closures **(must provide detour plan)**
- ☐ Use of Median
- ☑ Use Parking Lane
- ☐ Sidewalk Closure **(must provide pedestrian walk way)**

E. **Show All Dimensions** of street widths (curb to curb), lane widths, sidewalk widths, and work area dimension.
(Note: Traffic Control Application / Plans missing the above information will not be accepted or processed.)

F. **Show the Name and Locations** of all advanced warning devices, flaggers, delineators, warning and construction signs to be used.

RENEWAL PROCESS: Resubmit a completed Traffic Control Application with the old approved plan (with the necessary modifications / changes to the plans).

FOR HELP in preparing a traffic control plan, see Temporary Traffic Control Pocket Reference Guide 2007, Work Area Traffic Control Handbook 2006, or the California Manual on Uniform Traffic Control (MUTCD) 2003, Chapter 6.
http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/ca_mutcd.htm
or City website: http://www.oaklandpw.com/Page548.aspx

* Name the streets that are the boundaries of your work area.

SPECIAL PROVISION 7-10.1 TRAFFIC REQUIREMENTS

Project Name: _____
Project Number: TSD-15-0155
Reviewed By: JWatson
Date: 8/24/2015
Permit good from 9/8/2015
to 9/14//2015

ADD NEW SUBSECTION TO READ:
SP 7-10.1.4 Vehicular Traffic

Attention is directed to Section 7-10. Public Convenience and Safety, of the City of Oakland Standard Specification for Public Works Construction, 2006 Edition (Include this paragraph for p-jobs, excavation permits or obstruction permits).

The Contractor shall conduct its work in such a manner as to provide public convenience and safety and according to the provisions in this subsection. The provisions shall not be modified or altered without written approval from the Engineer.

Standard traffic control devices shall be placed at the construction zone according to the latest edition of the Work Area Traffic Control Handbook or Manual on Uniform Traffic Control Devices (MUTCD), Chapter 6 – "Traffic Controls for Construction and Maintenance Work Zone," or as directed by the Engineer.

All trenches and excavations in any public street or roadway shall be back filled and opened to traffic, or covered with suitable steel plates securely placed and opened to traffic at all times except during actual construction operations unless otherwise permitted by the Engineer.

Each section of work shall be completed or temporarily paved and open to traffic in not more than 5 days after commencing work unless otherwise permitted in writing by the Engineer.

Where construction encroaches into the sidewalk area, a minimum of 5 ½ feet of unobstructed sidewalk shall be maintained at all times for pedestrian use. Pedestrian barricades, shelter, and detour signs per Caltrans standards may be required.

The contractor shall conduct its operation in such a manner as to leave the following traffic lanes unobstructed and in a condition satisfactory for vehicular travel during the Obstruction Period. At all times traffic lanes will be restricted and (ened to travel. Emergency access shall be provided at all times.

Street Name Limits	Obstruction Period	North Bound	South Bound	East Bound	West Bound
Broadway between 7th Street and 8th Street	Mon. – Fri. 9am – 4pm	N/A	1-12' lane open minimum	N/A	Sidewalk Closure

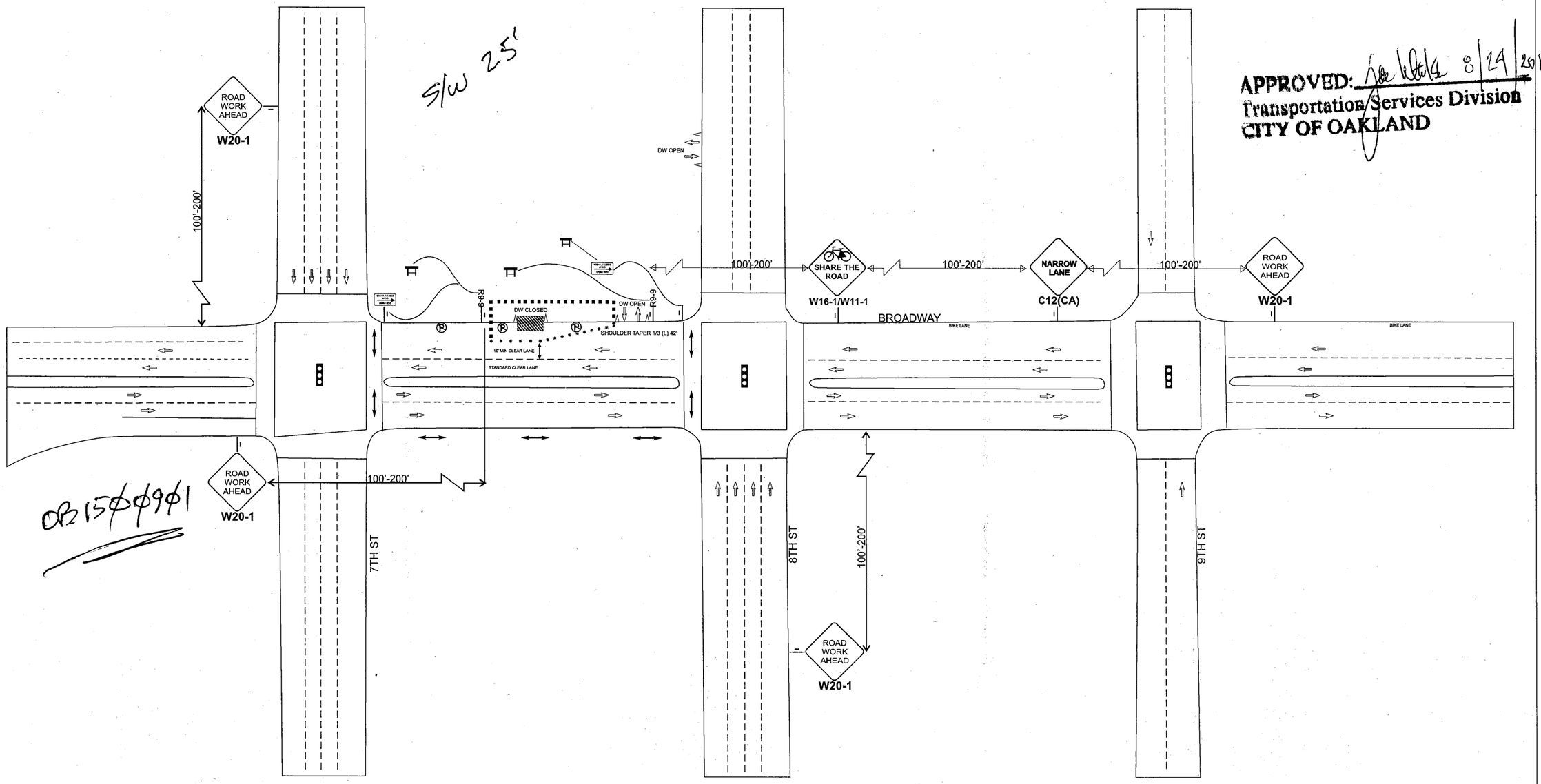
The Contractor Shall Also include all check item:

1. ☐ Design a construction traffic control plan and submit (2) copies to the Engineer for approval prior to starting any work.
2. ☒ Replace all signs, pavement markings, and traffic detector loops damaged or removed due to construction within 3 days of completion of work or the final pavement lift.
3. ☒ Provide advance notice to Oakland Police at (510) 777-3333 (24-hrs) and Oakland Fire at (510) 238-3331 (2-rhs) when a single lane of traffic or less is provided on any street.
4. ☒ Provide 72-hour advance notice to AC Transit at (510) 891-4909 when affecting a bus stop.
5. ☒ For Caltrans roadways, ramps, or maintained facilities, the Contractor shall obtain appropriate permits and notify the Traffic Management Center 24 hours in advance of any work.
6. ☐ Flagger control is required. Certified Flagger is required.
7. ☐ Pedestrian walkway by K-rail, Canopy or Plywood is required. (See detour plan)
8. ☒ Pedestrian traffic shall be maintained and guided through the project at all times.
9. ☒ Provide advance notice to Business and Residence within 72-hours.
10. ☒ Allow all traffic movement at intersection.

N ing specified herein shall prohibit emergency work and/or repair necessary to ensure public health and safety.

S/W 25'

APPROVED: 8/29/2015
Transportation Services Division
CITY OF OAKLAND



OR1504961

LOCATION: 461 8TH ST, OAKLAND, CA	CONSTRUCTION HOURS: 8:00AM-4:00PM M-F	PLAN # 2784	
CONTRACTOR: GHD		DATE: 7/31/2015	
CONTACT: CRISTINA ALCON	25 MPH 10' OFFSET = 104' 11' OFFSET = 115' 12' OFFSET = 125'		
PHONE #: 916-889-8915		ROADS: > 50 MPH MINIMUM 48" SIGN PANEL	

CONSTRUCTION ZONE TRAFFIC CONTROL
LICENSE # 975518
(916) 452-4855
STATE OF CALIFORNIA

WORK ZONE	PED/ADA	R9-11
R8-3A	W16-1/W11-1	R9-9
REFLECTIVE CONE	C12(CA)	
TEMPORARY C.A.S.	W20-1	
TRAFFIC FLOW		
TYPE I BARRICADE		

Appendix B
Boring Log

Boring/Well Log Legend

KEY TO SYMBOLS/ABBREVIATIONS

- First encountered groundwater
- Static groundwater
- Soils logged by hand-auger or air-knife cuttings
- Soils logged by drill cuttings or distured sample
- Undisturbed soil sample interval
- Soil sample retained for submittal to analytical laboratory
- No recovery within interval
- Hydropunch screen interval

PID = Photo-ionization detector or organic vapor meter reading in parts per million (ppm)

fbg = Feet below grade

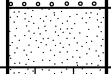
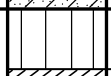
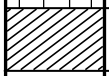
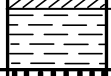
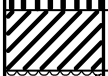
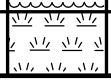
Blow Counts = Number of blows required to drive a California-modified split-spoon sampler using a 140-pound hammer falling freely 30 inches, recorded per 6-inch interval of a total 18-inch sample interval

(10YR 4/4) = Soil color according to Munsell Soil Color Charts

MSL = Mean sea level

Soils logged according to the USCS.

UNIFIED SOILS CLASSIFICATION SYSTEM (USCS) SUMMARY

Major Divisions			Graphic	Group Symbol	Typical Description
Coarse-Grained Soils (>50% Sands and/or Gravels)	Gravel and Gravelly Soils	Clean Gravels (<5% fines)		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
				GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
		Gravels with Fines (>12% fines)		GM	Silty gravels, gravel-sand-silt mixtures
				GC	Clayey gravels, gravel-sand-clay mixtures
	Sand and Sandy Soils	Clean Sands (<5% fines)		SW	Well-graded sands, gravelly sands, little or no fines
				SP	Poorly-graded sands, gravelly sand, little or no fines
		Sands with Fines (>12% fines)		SM	Silty sands, sand-silt mixtures
				SC	Clayey sands, sand-clay mixtures
Fine-Grained Soils (>50% Silts and/or Clays)	Silts and Clays			ML	Inorganic silts, very fine sands, silty or clayey fine sands, clayey silts with slight plasticity
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
				OL	Organic silts and organic silty clays of low plasticity
	Silts and Clays			MH	Inorganic silts, micaceous or diatomaceous fine sand or silty soils
				CH	Inorganic clays of high plasticity
				OH	Organic clays of medium to high plasticity, organic silts
Highly Organic Soils				PT	Peat, humus, swamp soils with high organic contents

GHD Services Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	S-26
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	14-Sep-15
LOCATION	461 8th Street, Oakland, CA	**DRILLING COMPLETED**	15-Sep-15
PROJECT NUMBER	241501	**WELL DEVELOPMENT DATE (YIELD)**	20-Sep-15 (22.1 gallons)
DRILLER	Cascade Drilling, L.P., C-57 #938110	**GROUND SURFACE ELEVATION**	34.78 ft above msl
DRILLING METHOD	Geoprobe / Hollow-stem auger	**TOP OF CASING ELEVATION**	34.39 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	20 to 35 fbg
LOGGED BY	P. Schaefer, PG 5612	**DEPTH TO WATER (First Encountered)**	26.0 ft (14-Sep-15) ▽
REVIEWED BY	P. Schaefer, PG 5612	**DEPTH TO WATER (Static)**	24.00 ft (29-Sep-15) ▼

REMARKS Airknifed to 5 fbg.

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.8				CONCRETE 0.5			**CONCRETE**	0.5	12" Traffic-rated well box
							SAND (SP); brownish yellow (10YR 6/6); moist; 5% silt, 95% fine to medium sand.		
0.6		S-26-5		5					
									Portland Type I/II
0.7		S-26-10		10			@10' - 100% fine sand.		
					SP				
0.8		S-26-15		15					Bentonite Seal
									Monterey Sand #2/12
0.8		S-26-20		20			@21' - gray (5YR 5/1); 5% silt, 95% fine to medium sand.		
							▼		
8.0		S-26-25		25			▽		
81		S-26-26						27.0	
27					ML		**SILT (ML)**; gray (5YR 5/1); wet; 40% clay, 60% silt; medium plasticity.		2"-diam., 0.020" Slotted Schedule 40 PVC
0.8								29.0	
0.6		S-26-30		30			**SAND (SP)**; strong brown (7.5YR 5/6); wet; 5% silt, 95% fine to medium sand.		
					SP				
0.8		S-26-34.5		35				35.0	Bottom of Boring @ 35 ft
				40					

WELL LOG (PID) I:\SONOMA~1.PUB\0-USERS\MDUTRA\DRAFTR~1\241501~1\241501-SO-GINT.GPJ DEFAULT.GDT 10/28/15

Appendix C
Waste Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	GHD 1-866-812-9565	07004554

GENERATOR

5. Generator's Name and Mailing Address
Shell Oil Products US C/O Waste Coordinator - NoCal, OR
6520 Corporate Drive, Indianapolis, IN. 46278
Generator's Phone: 317-291-7041

Generator's Site Address (if different than mailing address)
461 8th Street
Oakland, CA 94607

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Waste Management - Altamont Landfill
10840 Altamont Pass Rd, Livermore, CA 94551
Facility's Phone: 925-455-7301 (Peggy)
U.S. EPA ID Number: NOT REQUIRED

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Waste Solid (Soil)	003	DM	15/4	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
3X55
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (866)812-9565 GHD.
RWR: 6827 PlaNet ID USF04642
Profile#: 616757CA
Project #: 75006-6-2 CRA#241501

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature | Month: 10 | Day: 9 | Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARCO MARTINEZ | Signature: Marco Martinez | Month: 10 | Day: 9 | Year: 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S/SHIPPER'S INITIAL COPY

Appendix D
TestAmerica Laboratories, Inc. – Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-121266-1
Client Project/Site: 461 8th St., Oakland, CA

For:
GHD Services Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer

Heather Clark

Authorized for release by:
9/29/2015 3:34:38 PM

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

Table of Contents

Sample Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121266-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-121266-1	S-26-5	Solid	09/14/15 11:00	09/15/15 13:00
440-121266-2	S-26-10	Solid	09/14/15 11:30	09/15/15 13:00
440-121266-3	S-26-15	Solid	09/14/15 11:50	09/15/15 13:00
440-121266-4	S-26-20	Solid	09/14/15 12:10	09/15/15 13:00
440-121266-5	S-26-25	Solid	09/14/15 12:20	09/15/15 13:00
440-121266-6	S-26-26	Solid	09/14/15 12:20	09/15/15 13:00
440-121266-7	S-26-30	Solid	09/14/15 12:25	09/15/15 13:00
440-121266-8	S-26-34.5	Solid	09/14/15 12:30	09/15/15 13:00

Case Narrative

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121266-1

Job ID: 440-121266-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-121266-1

Comments
No additional comments.

Receipt
The samples were received on 9/15/2015 1:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: S-26-5

Date Collected: 09/14/15 11:00
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			09/18/15 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*		*09/18/15 14:12*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*		*09/18/15 14:12*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*		*09/18/15 14:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			09/18/15 14:12	1
Ethylbenzene	ND		0.00099		mg/Kg			09/18/15 14:12	1
Toluene	ND		0.00099		mg/Kg			09/18/15 14:12	1
Xylenes, Total	ND		0.0020		mg/Kg			09/18/15 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*		*09/18/15 14:12*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 120*		*09/18/15 14:12*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*		*09/18/15 14:12*	*1*

Client Sample ID: S-26-10

Date Collected: 09/14/15 11:30
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			09/18/15 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*09/18/15 14:42*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*09/18/15 14:42*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*		*09/18/15 14:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			09/18/15 14:42	1
Ethylbenzene	ND		0.0010		mg/Kg			09/18/15 14:42	1
Toluene	ND		0.0010		mg/Kg			09/18/15 14:42	1
Xylenes, Total	ND		0.0020		mg/Kg			09/18/15 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*09/18/15 14:42*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*09/18/15 14:42*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*		*09/18/15 14:42*	*1*

Client Sample ID: S-26-15

Date Collected: 09/14/15 11:50
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-3
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			09/18/15 15:11	1

Client Sample ID: S-26-15

Lab Sample ID: 440-121266-3

Date Collected: 09/14/15 11:50

Matrix: Solid

Date Received: 09/15/15 13:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*09/18/15 15:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*09/18/15 15:11*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*		*09/18/15 15:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			09/18/15 15:11	1
Ethylbenzene	ND		0.0010		mg/Kg			09/18/15 15:11	1
Toluene	ND		0.0010		mg/Kg			09/18/15 15:11	1
Xylenes, Total	ND		0.0020		mg/Kg			09/18/15 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*09/18/15 15:11*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*09/18/15 15:11*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*		*09/18/15 15:11*	*1*

Client Sample ID: S-26-20

Lab Sample ID: 440-121266-4

Date Collected: 09/14/15 12:10

Matrix: Solid

Date Received: 09/15/15 13:00

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			09/18/15 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*09/18/15 15:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*09/18/15 15:41*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*		*09/18/15 15:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			09/18/15 15:41	1
Ethylbenzene	ND		0.0010		mg/Kg			09/18/15 15:41	1
Toluene	ND		0.0010		mg/Kg			09/18/15 15:41	1
Xylenes, Total	ND		0.0020		mg/Kg			09/18/15 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*09/18/15 15:41*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*09/18/15 15:41*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*		*09/18/15 15:41*	*1*

Client Sample ID: S-26-25

Lab Sample ID: 440-121266-5

Date Collected: 09/14/15 12:20

Matrix: Solid

Date Received: 09/15/15 13:00

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**3.7**		0.099		mg/Kg			09/18/15 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*60 - 120*		*09/18/15 16:11*	*1*

Client Sample ID: S-26-25

Date Collected: 09/14/15 12:20
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*09/18/15 16:11*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*		*09/18/15 16:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.041**		0.0010		mg/Kg			09/19/15 16:25	1
Ethylbenzene	**0.027**		0.0010		mg/Kg			09/19/15 16:25	1
Toluene	**0.024**		0.0010		mg/Kg			09/19/15 16:25	1
Xylenes, Total	**0.13**		0.0020		mg/Kg			09/19/15 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*		*09/19/15 16:25*	*1*
Dibromofluoromethane (Surr)	*118*		*60 - 120*		*09/19/15 16:25*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*		*09/19/15 16:25*	*1*

Client Sample ID: S-26-26

Date Collected: 09/14/15 12:20
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**0.17**		0.099		mg/Kg			09/18/15 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*09/18/15 16:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*09/18/15 16:40*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*		*09/18/15 16:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.011**		0.00099		mg/Kg			09/18/15 16:40	1
Ethylbenzene	**0.0061**		0.00099		mg/Kg			09/18/15 16:40	1
Toluene	**0.0055**		0.00099		mg/Kg			09/18/15 16:40	1
Xylenes, Total	**0.026**		0.0020		mg/Kg			09/18/15 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*09/18/15 16:40*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*09/18/15 16:40*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*		*09/18/15 16:40*	*1*

Client Sample ID: S-26-30

Date Collected: 09/14/15 12:25
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			09/18/15 10:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*09/18/15 10:16*	*1*

Client Sample ID: S-26-30

Date Collected: 09/14/15 12:25
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*		*09/18/15 10:16*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*		*09/18/15 10:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			09/18/15 10:16	1
Ethylbenzene	ND		0.0010		mg/Kg			09/18/15 10:16	1
Toluene	ND		0.0010		mg/Kg			09/18/15 10:16	1
Xylenes, Total	ND		0.0020		mg/Kg			09/18/15 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*		*09/18/15 10:16*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*09/18/15 10:16*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*		*09/18/15 10:16*	*1*

Client Sample ID: S-26-34.5

Date Collected: 09/14/15 12:30
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			09/18/15 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*09/18/15 17:10*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*		*09/18/15 17:10*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*		*09/18/15 17:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			09/18/15 17:10	1
Ethylbenzene	ND		0.00099		mg/Kg			09/18/15 17:10	1
Toluene	ND		0.00099		mg/Kg			09/18/15 17:10	1
Xylenes, Total	ND		0.0020		mg/Kg			09/18/15 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*		*09/18/15 17:10*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*09/18/15 17:10*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*		*09/18/15 17:10*	*1*

Method Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121266-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121266-1

Client Sample ID: S-26-5
Date Collected: 09/14/15 11:00
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	280932	09/18/15 14:12	AL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	280933	09/18/15 14:12	HR	TAL IRV

Client Sample ID: S-26-10
Date Collected: 09/14/15 11:30
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	280932	09/18/15 14:42	AL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.01 g	10 mL	280933	09/18/15 14:42	HR	TAL IRV

Client Sample ID: S-26-15
Date Collected: 09/14/15 11:50
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	280932	09/18/15 15:11	AL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.01 g	10 mL	280933	09/18/15 15:11	HR	TAL IRV

Client Sample ID: S-26-20
Date Collected: 09/14/15 12:10
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	280932	09/18/15 15:41	AL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	280933	09/18/15 15:41	HR	TAL IRV

Client Sample ID: S-26-25
Date Collected: 09/14/15 12:20
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	281176	09/19/15 16:25	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	280933	09/18/15 16:11	HR	TAL IRV

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121266-1

Client Sample ID: S-26-26

Date Collected: 09/14/15 12:20
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	280932	09/18/15 16:40	AL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.04 g	10 mL	280933	09/18/15 16:40	HR	TAL IRV

Client Sample ID: S-26-30

Date Collected: 09/14/15 12:25
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	280932	09/18/15 10:16	AL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	280933	09/18/15 10:16	HR	TAL IRV

Client Sample ID: S-26-34.5

Date Collected: 09/14/15 12:30
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121266-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	280932	09/18/15 17:10	AL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.04 g	10 mL	280933	09/18/15 17:10	HR	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-280932/4
Matrix: Solid
Analysis Batch: 280932

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			09/18/15 08:26	1
Ethylbenzene	ND		0.0010		mg/Kg			09/18/15 08:26	1
Toluene	ND		0.0010		mg/Kg			09/18/15 08:26	1
Xylenes, Total	ND		0.0020		mg/Kg			09/18/15 08:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*09/18/15 08:26*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*09/18/15 08:26*	*1*
Toluene-d8 (Surr)	*120*		*79 - 123*		*09/18/15 08:26*	*1*

Lab Sample ID: LCS 440-280932/5
Matrix: Solid
Analysis Batch: 280932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0508		mg/Kg		102	65 - 120
Ethylbenzene	0.0500	0.0484		mg/Kg		97	70 - 125
m,p-Xylene	0.0500	0.0510		mg/Kg		102	70 - 125
o-Xylene	0.0500	0.0504		mg/Kg		101	70 - 125
Toluene	0.0500	0.0494		mg/Kg		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
Toluene-d8 (Surr)	*113*		*79 - 123*

Lab Sample ID: 440-121266-7 MS
Matrix: Solid
Analysis Batch: 280932

Client Sample ID: S-26-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0499	0.0513		mg/Kg		103	65 - 130
Ethylbenzene	ND		0.0499	0.0491		mg/Kg		98	70 - 135
m,p-Xylene	ND		0.0499	0.0520		mg/Kg		104	70 - 130
o-Xylene	ND		0.0499	0.0498		mg/Kg		100	65 - 130
Toluene	ND		0.0499	0.0505		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
Toluene-d8 (Surr)	*114*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-121266-7 MSD
Matrix: Solid
Analysis Batch: 280932

Client Sample ID: S-26-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0500	0.0492		mg/Kg		98	65 - 130	4	20
Ethylbenzene	ND		0.0500	0.0470		mg/Kg		94	70 - 135	4	25
m,p-Xylene	ND		0.0500	0.0495		mg/Kg		99	70 - 130	5	25
o-Xylene	ND		0.0500	0.0482		mg/Kg		96	65 - 130	3	25
Toluene	ND		0.0500	0.0487		mg/Kg		97	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
Toluene-d8 (Surr)	*111*		*79 - 123*

Lab Sample ID: MB 440-281176/4
Matrix: Solid
Analysis Batch: 281176

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			09/19/15 10:54	1
Ethylbenzene	ND		0.0010		mg/Kg			09/19/15 10:54	1
Toluene	ND		0.0010		mg/Kg			09/19/15 10:54	1
Xylenes, Total	ND		0.0020		mg/Kg			09/19/15 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*		*09/19/15 10:54*	*1*
Dibromofluoromethane (Surr)	*112*		*60 - 120*		*09/19/15 10:54*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*		*09/19/15 10:54*	*1*

Lab Sample ID: LCS 440-281176/5
Matrix: Solid
Analysis Batch: 281176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0520		mg/Kg		104	65 - 120
Ethylbenzene	0.0500	0.0528		mg/Kg		106	70 - 125
m,p-Xylene	0.0500	0.0552		mg/Kg		110	70 - 125
o-Xylene	0.0500	0.0539		mg/Kg		108	70 - 125
Toluene	0.0500	0.0525		mg/Kg		105	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Dibromofluoromethane (Surr)	*114*		*60 - 120*
Toluene-d8 (Surr)	*111*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-121495-B-5 MS
Matrix: Solid
Analysis Batch: 281176

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0493	0.0490		mg/Kg		99	65 - 130
Ethylbenzene	ND		0.0493	0.0508		mg/Kg		103	70 - 135
m,p-Xylene	ND		0.0493	0.0532		mg/Kg		108	70 - 130
o-Xylene	ND		0.0493	0.0519		mg/Kg		105	65 - 130
Toluene	ND		0.0493	0.0496		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Dibromofluoromethane (Surr)	*115*		*60 - 120*
Toluene-d8 (Surr)	*110*		*79 - 123*

Lab Sample ID: 440-121495-B-5 MSD
Matrix: Solid
Analysis Batch: 281176

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0489	0.0487		mg/Kg		99	65 - 130	1	20
Ethylbenzene	ND		0.0489	0.0509		mg/Kg		104	70 - 135	0	25
m,p-Xylene	ND		0.0489	0.0528		mg/Kg		108	70 - 130	1	25
o-Xylene	ND		0.0489	0.0517		mg/Kg		106	65 - 130	0	25
Toluene	ND		0.0489	0.0490		mg/Kg		100	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*
Dibromofluoromethane (Surr)	*114*		*60 - 120*
Toluene-d8 (Surr)	*110*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-280933/4
Matrix: Solid
Analysis Batch: 280933

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			09/18/15 08:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*09/18/15 08:26*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*09/18/15 08:26*	*1*
Toluene-d8 (Surr)	*120*		*79 - 123*		*09/18/15 08:26*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-280933/6
Matrix: Solid
Analysis Batch: 280933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	1.00	0.831		mg/Kg		83	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*116*		*79 - 123*

Lab Sample ID: 440-121266-7 MS
Matrix: Solid
Analysis Batch: 280933

Client Sample ID: S-26-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	3.94		mg/Kg		115	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Toluene-d8 (Surr)	*114*		*79 - 123*

Lab Sample ID: 440-121266-7 MSD
Matrix: Solid
Analysis Batch: 280933

Client Sample ID: S-26-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.45	3.84		mg/Kg		111	55 - 140	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Toluene-d8 (Surr)	*111*		*79 - 123*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121266-1

GC/MS VOA

Analysis Batch: 280932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121266-1	S-26-5	Total/NA	Solid	8260B	
440-121266-2	S-26-10	Total/NA	Solid	8260B	
440-121266-3	S-26-15	Total/NA	Solid	8260B	
440-121266-4	S-26-20	Total/NA	Solid	8260B	
440-121266-6	S-26-26	Total/NA	Solid	8260B	
440-121266-7	S-26-30	Total/NA	Solid	8260B	
440-121266-7 MS	S-26-30	Total/NA	Solid	8260B	
440-121266-7 MSD	S-26-30	Total/NA	Solid	8260B	
440-121266-8	S-26-34.5	Total/NA	Solid	8260B	
LCS 440-280932/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-280932/4	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 280933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121266-1	S-26-5	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-2	S-26-10	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-3	S-26-15	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-4	S-26-20	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-5	S-26-25	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-6	S-26-26	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-7	S-26-30	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-7 MS	S-26-30	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-7 MSD	S-26-30	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-8	S-26-34.5	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-280933/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-280933/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 281176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121266-5	S-26-25	Total/NA	Solid	8260B	
440-121495-B-5 MS	Matrix Spike	Total/NA	Solid	8260B	
440-121495-B-5 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
LCS 440-281176/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-281176/4	Method Blank	Total/NA	Solid	8260B	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121266-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE ( )
- ☐ SPL ( )
- ☐ XENCO ( )
- ☑ TEST AMERICA ( )
- ☐ 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 - 241501-15.04-****

PO #

PlaNet Project ID: USF04642

PlaNet Site ID: 27481

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 9/14/2015

PAGE: ____ of ____

SAMPLING COMPANY: GHD Services Inc.	LOG CODE: CRAW
SITE ADDRESS: Street and City: 461 8th Street, Oakland	State: CA
GLOBAL ID NO.: T0600101263	
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608	
EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville	PHONE NO.: 510-420-3343
E-MAIL: shell.em.edf@craworld.com	CONSULTANT PROJECT NO.: 241501-15.04-****
PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer	
SAMPLER NAME(S) (Print): ~~Belw Yifru~~ PETER SCHAEFER	LAB USE ONLY
TELEPHONE: 510-420-3319	FAX: 510-420-9170
E-MAIL: peter.schaefer@ghd.com	

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: Alameda County Environmental Health

SPECIAL INSTRUCTIONS OR NOTES :

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

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	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-26-5	9/14/15	1100	Soil				X		1	X				X										
	S-26-10	↓	1130	Soil				X		1	X				X										
	S-26-15		1150	Soil				X		1	X				X										
	S-26-20		1210	Soil				X		1	X				X										
	S-26-25		1220	Soil				X		1	X				X										
	S-26-26		1220	Soil				X		1	X				X										
	S-26-30		1225	Soil				X		1	X				X										
	S-26-34.5		1230	SOIL				X		1	X				X										

440-121266 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	RELEASED TO SECURE LOCATION	9/15/15	11:15
[signature]	[signature]	9-15-15	12:07
[signature]	[signature] 4.2°C	9-15-15	1300

05/2/06 Revision

[signature] 9/15/15 1515 Veronica Garcia 9/16/15 11

CS 3.1/3.5 IR-7S

FED: 6510 8226 2603

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 440-121266-1

Login Number: 121266
List Number: 1
Creator: Avila, Stephanie 1

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-121300-1
Client Project/Site: 461 8th St., Oakland, CA
Revision: 1

For:
GHD Services Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer

Heather Clark

Authorized for release by:
9/28/2015 5:26:04 PM

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

LINKS

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Have a Question? Ask The Expert

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Table of Contents

Sample Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121300-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-121300-4	GHD-A (COMPOSITE)	Solid	09/14/15 11:30	09/15/15 13:00

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121300-1

Job ID: 440-121300-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-121300-1

Comments
Revised report to add contingent analyses.

Receipt
The samples were received on 9/15/2015 1:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3546: The following sample was diluted due to the nature of the sample matrix: GHD-A (COMPOSITE) (440-121300-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: GHD-A (COMPOSITE)

Lab Sample ID: 440-121300-4

Date Collected: 09/14/15 11:30

Matrix: Solid

Date Received: 09/15/15 13:00

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			09/18/15 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*09/18/15 17:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*09/18/15 17:40*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*		*09/18/15 17:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			09/18/15 17:40	1
Ethylbenzene	ND		0.00099		mg/Kg			09/18/15 17:40	1
Toluene	ND		0.00099		mg/Kg			09/18/15 17:40	1
Xylenes, Total	ND		0.0020		mg/Kg			09/18/15 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*09/18/15 17:40*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*09/18/15 17:40*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*		*09/18/15 17:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		9.9		mg/Kg		09/18/15 17:08	09/19/15 13:07	1
ORO (C29-C40)	ND		9.9		mg/Kg		09/18/15 17:08	09/19/15 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*63*		*40 - 140*	*09/18/15 17:08*	*09/19/15 13:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Arsenic	ND		3.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Barium	**48**		1.5		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Beryllium	ND		0.50		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Cadmium	ND		0.50		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Chromium	**52**		1.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Cobalt	**6.4**		1.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Copper	**6.0**		2.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Lead	ND		2.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Molybdenum	ND		2.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Nickel	**43**		2.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Selenium	ND		3.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Thallium	ND		10		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Vanadium	**32**		1.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Zinc	**23**		5.0		mg/Kg		09/18/15 06:44	09/18/15 15:23	5
Silver	ND		1.5		mg/Kg		09/18/15 06:44	09/18/15 15:23	5

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L			09/28/15 09:52	20

Client Sample Results

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121300-1

Client Sample ID: GHD-A (COMPOSITE)
Date Collected: 09/14/15 11:30
Date Received: 09/15/15 13:00

Lab Sample ID: 440-121300-4
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg		09/18/15 07:42	09/18/15 22:08	1

Method Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121300-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121300-1

Client Sample ID: GHD-A (COMPOSITE)

Lab Sample ID: 440-121300-4

Date Collected: 09/14/15 11:30

Matrix: Solid

Date Received: 09/15/15 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	280932	09/18/15 17:40	AL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.04 g	10 mL	280933	09/18/15 17:40	HR	TAL IRV
Total/NA	Prep	3546			7.55 g	1 mL	281118	09/18/15 17:08	BAW	TAL IRV
Total/NA	Analysis	8015B		1	7.55 g	1 mL	281192	09/19/15 13:07	QCT	TAL IRV
STLC Citrate	Leach	CA WET Citrate			50.05 g	500 mL	282061	09/23/15 17:36	CH	TAL IRV
STLC Citrate	Analysis	6010B		20			282916	09/28/15 09:52	VS	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	280931	09/18/15 06:44	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	281104	09/18/15 15:23	TK	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	280945	09/18/15 07:42	EN	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	281147	09/18/15 22:08	DB	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-280932/4
Matrix: Solid
Analysis Batch: 280932

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			09/18/15 08:26	1
Ethylbenzene	ND		0.0010		mg/Kg			09/18/15 08:26	1
Toluene	ND		0.0010		mg/Kg			09/18/15 08:26	1
Xylenes, Total	ND		0.0020		mg/Kg			09/18/15 08:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*09/18/15 08:26*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*09/18/15 08:26*	*1*
Toluene-d8 (Surr)	*120*		*79 - 123*		*09/18/15 08:26*	*1*

Lab Sample ID: LCS 440-280932/5
Matrix: Solid
Analysis Batch: 280932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0508		mg/Kg		102	65 - 120
Ethylbenzene	0.0500	0.0484		mg/Kg		97	70 - 125
m,p-Xylene	0.0500	0.0510		mg/Kg		102	70 - 125
o-Xylene	0.0500	0.0504		mg/Kg		101	70 - 125
Toluene	0.0500	0.0494		mg/Kg		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
Toluene-d8 (Surr)	*113*		*79 - 123*

Lab Sample ID: 440-121266-A-7 MS
Matrix: Solid
Analysis Batch: 280932

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0499	0.0513		mg/Kg		103	65 - 130
Ethylbenzene	ND		0.0499	0.0491		mg/Kg		98	70 - 135
m,p-Xylene	ND		0.0499	0.0520		mg/Kg		104	70 - 130
o-Xylene	ND		0.0499	0.0498		mg/Kg		100	65 - 130
Toluene	ND		0.0499	0.0505		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
Toluene-d8 (Surr)	*114*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-121266-A-7 MSD
Matrix: Solid
Analysis Batch: 280932

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0500	0.0492		mg/Kg		98	65 - 130	4	20
Ethylbenzene	ND		0.0500	0.0470		mg/Kg		94	70 - 135	4	25
m,p-Xylene	ND		0.0500	0.0495		mg/Kg		99	70 - 130	5	25
o-Xylene	ND		0.0500	0.0482		mg/Kg		96	65 - 130	3	25
Toluene	ND		0.0500	0.0487		mg/Kg		97	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
Toluene-d8 (Surr)	*111*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-280933/4
Matrix: Solid
Analysis Batch: 280933

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			09/18/15 08:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*09/18/15 08:26*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*09/18/15 08:26*	*1*
Toluene-d8 (Surr)	*120*		*79 - 123*		*09/18/15 08:26*	*1*

Lab Sample ID: LCS 440-280933/6
Matrix: Solid
Analysis Batch: 280933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Volatile Fuel Hydrocarbons (C4-C12)			1.00	0.831		mg/Kg		83	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*116*		*79 - 123*

Lab Sample ID: 440-121266-A-7 MS
Matrix: Solid
Analysis Batch: 280933

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	3.94		mg/Kg		115	55 - 140		

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-121266-A-7 MS
Matrix: Solid
Analysis Batch: 280933

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Toluene-d8 (Surr)	*114*		*79 - 123*

Lab Sample ID: 440-121266-A-7 MSD
Matrix: Solid
Analysis Batch: 280933

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.45	3.84		mg/Kg		111	55 - 140	3	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Toluene-d8 (Surr)	*111*		*79 - 123*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-281118/1-A
Matrix: Solid
Analysis Batch: 281191

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 281118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		5.0		mg/Kg		09/18/15 17:08	09/19/15 10:46	1
ORO (C29-C40)	ND		5.0		mg/Kg		09/18/15 17:08	09/19/15 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*103*		*40 - 140*	*09/18/15 17:08*	*09/19/15 10:46*	*1*

Lab Sample ID: LCS 440-281118/2-A
Matrix: Solid
Analysis Batch: 281191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C28)	66.7	55.8		mg/Kg		84	45 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	*94*		*40 - 140*

Lab Sample ID: 440-121498-A-2-A MS
Matrix: Solid
Analysis Batch: 281191

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 281118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C28)	ND		64.9	51.6		mg/Kg		80	40 - 120

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-121498-A-2-A MS
Matrix: Solid
Analysis Batch: 281191

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 281118

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	*88*		*40 - 140*

Lab Sample ID: 440-121498-A-2-B MSD
Matrix: Solid
Analysis Batch: 281191

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 281118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (C10-C28)	ND		68.7	56.5		mg/Kg		82	40 - 120	9	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	*91*		*40 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-280931/1-A ^5
Matrix: Solid
Analysis Batch: 281104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Arsenic	ND		3.0		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Barium	ND		1.5		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Beryllium	ND		0.50		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Cadmium	ND		0.50		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Cobalt	ND		0.99		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Copper	ND		2.0		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Lead	ND		2.0		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Molybdenum	ND		2.0		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Nickel	ND		2.0		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Selenium	ND		3.0		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Thallium	ND		9.9		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Vanadium	ND		0.99		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Zinc	ND		5.0		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Silver	ND		1.5		mg/Kg		09/18/15 06:44	09/18/15 14:47	5
Chromium	ND		0.99		mg/Kg		09/18/15 06:44	09/18/15 14:47	5

Lab Sample ID: LCS 440-280931/2-A ^5
Matrix: Solid
Analysis Batch: 281104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.8	49.9		mg/Kg		100	80 - 120
Arsenic	49.8	47.1		mg/Kg		95	80 - 120
Barium	49.8	49.5		mg/Kg		100	80 - 120
Beryllium	49.8	48.7		mg/Kg		98	80 - 120
Cadmium	49.8	47.5		mg/Kg		96	80 - 120
Cobalt	49.8	49.7		mg/Kg		100	80 - 120
Copper	49.8	49.7		mg/Kg		100	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-280931/2-A ^5
Matrix: Solid
Analysis Batch: 281104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	49.8	49.2		mg/Kg		99	80 - 120
Molybdenum	49.8	51.8		mg/Kg		104	80 - 120
Nickel	49.8	52.1		mg/Kg		105	80 - 120
Selenium	49.8	44.9		mg/Kg		90	80 - 120
Thallium	49.8	48.9		mg/Kg		98	80 - 120
Vanadium	49.8	49.5		mg/Kg		99	80 - 120
Zinc	49.8	45.7		mg/Kg		92	80 - 120
Silver	24.9	24.4		mg/Kg		98	80 - 120
Chromium	49.8	52.9		mg/Kg		106	80 - 120

Lab Sample ID: 440-121349-A-1-D MS ^5
Matrix: Solid
Analysis Batch: 281104

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 280931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	49.3	26.3	F1	mg/Kg		53	75 - 125
Arsenic	6.6		49.3	49.5		mg/Kg		87	75 - 125
Barium	82	F1	49.3	137		mg/Kg		112	75 - 125
Beryllium	0.58		49.3	46.8		mg/Kg		94	75 - 125
Cadmium	ND		49.3	43.9		mg/Kg		89	75 - 125
Cobalt	7.6		49.3	54.7		mg/Kg		96	75 - 125
Copper	20		49.3	71.0		mg/Kg		104	75 - 125
Lead	15	F1	49.3	67.7		mg/Kg		106	75 - 125
Molybdenum	ND		49.3	47.5		mg/Kg		94	75 - 125
Nickel	12		49.3	60.2		mg/Kg		98	75 - 125
Selenium	ND		49.3	42.8		mg/Kg		87	75 - 125
Thallium	ND		49.3	44.4		mg/Kg		90	75 - 125
Vanadium	35		49.3	85.7		mg/Kg		104	75 - 125
Zinc	45		49.3	89.4		mg/Kg		90	75 - 125
Silver	ND		24.6	22.8		mg/Kg		93	75 - 125
Chromium	20		49.3	70.2		mg/Kg		103	75 - 125

Lab Sample ID: 440-121349-A-1-E MSD ^5
Matrix: Solid
Analysis Batch: 281104

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 280931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	50.0	28.8	F1	mg/Kg		58	75 - 125	9	20
Arsenic	6.6		50.0	54.5		mg/Kg		96	75 - 125	10	20
Barium	82	F1	50.0	153	F1	mg/Kg		143	75 - 125	11	20
Beryllium	0.58		50.0	52.1		mg/Kg		103	75 - 125	11	20
Cadmium	ND		50.0	47.9		mg/Kg		96	75 - 125	9	20
Cobalt	7.6		50.0	60.2		mg/Kg		105	75 - 125	10	20
Copper	20		50.0	73.8		mg/Kg		108	75 - 125	4	20
Lead	15	F1	50.0	79.6	F1	mg/Kg		128	75 - 125	16	20
Molybdenum	ND		50.0	51.7		mg/Kg		101	75 - 125	8	20
Nickel	12		50.0	66.5		mg/Kg		109	75 - 125	10	20
Selenium	ND		50.0	47.4		mg/Kg		95	75 - 125	10	20
Thallium	ND		50.0	49.3		mg/Kg		99	75 - 125	11	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-121349-A-1-E MSD ^5
Matrix: Solid
Analysis Batch: 281104

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 280931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	35		50.0	94.8		mg/Kg		120	75 - 125	10	20
Zinc	45		50.0	97.4		mg/Kg		105	75 - 125	9	20
Silver	ND		25.0	25.0		mg/Kg		100	75 - 125	9	20
Chromium	20		50.0	78.7		mg/Kg		118	75 - 125	11	20

Lab Sample ID: MB 440-282061/1-A ^20
Matrix: Solid
Analysis Batch: 282916

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L			09/28/15 09:46	20

Lab Sample ID: LCS 440-282061/2-A ^20
Matrix: Solid
Analysis Batch: 282916

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.0		mg/L		95	80 - 120

Lab Sample ID: 440-121300-4 MS
Matrix: Solid
Analysis Batch: 282916

Client Sample ID: GHD-A (COMPOSITE)
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND		20.0	19.1		mg/L		95	75 - 125

Lab Sample ID: 440-121300-4 MSD
Matrix: Solid
Analysis Batch: 282916

Client Sample ID: GHD-A (COMPOSITE)
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	ND		20.0	19.2		mg/L		96	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-280945/1-A
Matrix: Solid
Analysis Batch: 281147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg		09/18/15 07:42	09/18/15 21:13	1

Lab Sample ID: LCS 440-280945/2-A
Matrix: Solid
Analysis Batch: 281147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.820		mg/Kg		103	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 440-121403-A-15-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 281147 — **Prep Batch: 280945**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.816	0.684		mg/Kg		82	70 - 130

Lab Sample ID: 440-121403-A-15-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 281147 — **Prep Batch: 280945**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.784	0.680		mg/Kg		85	70 - 130	1	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121300-1

GC/MS VOA

Analysis Batch: 280932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121266-A-7 MS	Matrix Spike	Total/NA	Solid	8260B	
440-121266-A-7 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
440-121300-4	GHD-A (COMPOSITE)	Total/NA	Solid	8260B	
LCS 440-280932/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-280932/4	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 280933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121266-A-7 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-121266-A-7 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	
440-121300-4	GHD-A (COMPOSITE)	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-280933/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-280933/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 281118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121300-4	GHD-A (COMPOSITE)	Total/NA	Solid	3546	
440-121498-A-2-A MS	Matrix Spike	Total/NA	Solid	3546	
440-121498-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 440-281118/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-281118/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 281191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121498-A-2-A MS	Matrix Spike	Total/NA	Solid	8015B	281118
440-121498-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	281118
LCS 440-281118/2-A	Lab Control Sample	Total/NA	Solid	8015B	281118
MB 440-281118/1-A	Method Blank	Total/NA	Solid	8015B	281118

Analysis Batch: 281192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121300-4	GHD-A (COMPOSITE)	Total/NA	Solid	8015B	281118

Metals

Prep Batch: 280931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121300-4	GHD-A (COMPOSITE)	Total/NA	Solid	3050B	
440-121349-A-1-D MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-121349-A-1-E MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
LCS 440-280931/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-280931/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 280945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121300-4	GHD-A (COMPOSITE)	Total/NA	Solid	7471A	
440-121403-A-15-B MS	Matrix Spike	Total/NA	Solid	7471A	
440-121403-A-15-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
LCS 440-280945/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-280945/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 281104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121300-4	GHD-A (COMPOSITE)	Total/NA	Solid	6010B	280931
440-121349-A-1-D MS ^5	Matrix Spike	Total/NA	Solid	6010B	280931
440-121349-A-1-E MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	280931
LCS 440-280931/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	280931
MB 440-280931/1-A ^5	Method Blank	Total/NA	Solid	6010B	280931

Analysis Batch: 281147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121300-4	GHD-A (COMPOSITE)	Total/NA	Solid	7471A	280945
440-121403-A-15-B MS	Matrix Spike	Total/NA	Solid	7471A	280945
440-121403-A-15-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	280945
LCS 440-280945/2-A	Lab Control Sample	Total/NA	Solid	7471A	280945
MB 440-280945/1-A	Method Blank	Total/NA	Solid	7471A	280945

Leach Batch: 282061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121300-4	GHD-A (COMPOSITE)	STLC Citrate	Solid	CA WET Citrate	
440-121300-4 MS	GHD-A (COMPOSITE)	STLC Citrate	Solid	CA WET Citrate	
440-121300-4 MSD	GHD-A (COMPOSITE)	STLC Citrate	Solid	CA WET Citrate	
LCS 440-282061/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
MB 440-282061/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 282916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121300-4	GHD-A (COMPOSITE)	STLC Citrate	Solid	6010B	282061
440-121300-4 MS	GHD-A (COMPOSITE)	STLC Citrate	Solid	6010B	282061
440-121300-4 MSD	GHD-A (COMPOSITE)	STLC Citrate	Solid	6010B	282061
LCS 440-282061/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	282061
MB 440-282061/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	282061

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-121300-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (_____)
- ☐ 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 - 241501-15.04-****

PO #

PlaNET Project ID #: U S F 0 4 6 4 2

PlaNET Site ID #: 2 7 4 8 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 9/14/2015

PAGE: _____ of _____

SAMPLING COMPANY: GHD Services Inc.	LOG CODE: CRAW
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608	
PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer	
TELEPHONE: 510-420-3319	FAX: 510-420-9170
E-MAIL: peter.schaefer@ghd.com	
SITE ADDRESS: Street and City: 461 8th Street, Oakland	State: CA
GLOBAL ID NO.: T0600101263	
EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, GHD, Emeryville	PHONE NO.: 510-420-3343
E-MAIL: shell.em.edf@ghd.com	CONSULTANT PROJECT NO.: 241501-15.04-****
SAMPLER NAME(S) (Print): Belew Yifru	LAB USE ONLY

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 :
Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

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

cc: kimberly.kwok@ghd.com, brandon.barlow@ghd.com shell.lab.billing@ghd.com
Call composite sample IDs and field point names: GHD-A, GHD-B, etc

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)	Test for disposal (See Attached)		TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
440-121300-23	GHD-1A	9/14/15	1130	SO						1	X	X	X											X	X				X		Please call
	GHD-1B	9/14/15	1130	SO						1	X	X	X											X	X				X		composite sample
	GHD-1C	9/14/15	1300	SO						5	X	X	X											X	X				X		GHD-A
	~~GHD-1D~~ (B3)																														
																															Per Contingency Sheet, for Solids & Liquids; run STLC and / or TCLP as needed. Solids ONLY; run Fish Toxicity

440-121300 Chain of Custody

Relinquished by: (Signature) Peter Schaefer	Received by: (Signature) RELEASED TO SECURE LOCATION	Date: 9/15/15 Time: 11:15
Relinquished by: (Signature)	Received by: (Signature)	Date: 9-15-15 Time: 12:07
Relinquished by: (Signature) J Burrell 9/15/15 1515	Received by: (Signature) Veronica Garcia 9/16/15 11 (CB) 3.1/3.5 IR-75 FED: 6578 8876 2603 4.2°C	Date: 9-15-15 Time: 1300

05/2/06 Revision

9/28/2015

Analytical trigger for Waste Determinations is provided below. Only triggers for select states are supplied; triggers will be updated with additional states as they are generated.

California Analytical Triggers:

Organic Constituents	Trigger Level TTLC (mg/L)	Hazardous Thresholds TCLP (mg/L)	STLC (mg/L)	TTLC (mg/kg)	Comments
TPHg	5,000	--	--	--	Trigger requires fish bioassay
TPHd	5,000	--	--	--	Trigger requires fish bioassay
TPHmo	5,000	--	--	--	Trigger requires fish bioassay
(fish bioassay)	--	--	--	50% fish kill	--
Aldrin	0.14	--	0.14	1.4	--
Benzene	10	0.5	--	--	--
Carbon Tetrachloride	10	0.5	--	--	--
Chlordane	0.25 0.60	0.03	0.25	2.5	≥0.25 trigger requires STLC ≥0.60 trigger requires TCLP
Chlorobenzene	2,000	100	--	--	--
Chloroform	120	6.0	--	--	--
Cresols	4,000	200	--	--	--
2,4-Dichlorophenoxyacetic Acid	10	10	10	100	Trigger requires STLC and TCLP
DDT, DDE, DDD	0.10	--	0.1	1.0	--
1,4 Dichlorobenzene	150	7.5	--	8.0	--
1,2 Dichloroethane	10	0.5	--	--	--
1,1 Dichloroethylene	14	0.7	--	--	--
2,4 Dinitrotoluene	2.6	0.13	--	--	--
Dieldrin	0.8	--	0.8	--	--
Dioxin	0.001	--	0.001	0.01	--
Endrin	0.02	0.02	0.02	0.20	Trigger requires STLC and TCLP
Heptachlor	0.16 0.47	0.008	0.47	4.7	≥0.16 trigger requires TCLP ≥0.47 trigger requires STLC
Hexachlorobenzene	2.6	0.13	--	--	--
Hexachlorobutadiene	10	0.5	--	--	--
Hexachloroethane	60	3.0	--	--	--
Kepone	2.1	--	2.1	21	--
Lindane	0.4	0.4	0.4	4.0	Trigger requires STLC and TCLP
Methoxychlor	10	10	10	100	Trigger requires STLC and TCLP
Methyl Ethyl Ketone	4,000	200	--	--	--
Mirex	2.1	--	2.1	21	--
Nitrobenzene	40	2.0	--	--	--
Pentachlorophenol	1.7	100	1.7	17	Trigger requires STLC only
Polychlorinated Biphenyls	5.0	--	5.0	50	--
Pyridine	100	0.5	--	--	--
Tetrachloroethylene	14	0.7	--	--	--

Toxaphene	0.50	0.5	0.5	5	Trigger requires STLC and TCLP
Trichloroethylene	10 204	0.5	204	2,040	≥10 trigger requires TCLP ≥204 trigger requires STLC
2,4,5 TP (Silvex)	1.0	1.0	1.0	10	Trigger requires STLC and TCLP
2,4,5 Trichlorophenol	8,000	400	--	--	--
2,4,6 Trichlorophenol	40	2.0	--	--	--
Vinyl Chloride	4.0	0.2	--	--	--

Inorganic Constituents	Hazardous Thresholds Trigger Level TTLC (mg/L)	TCLP (mg/L)	STLC (mg/L)	TTLC (mg/kg)	Comments
Antimony	150	--	15	500	--
Arsenic	50 100	5.0	5.0	500	≥50 trigger requires STLC ≥100 trigger requires TCLP
Barium	1,000 2,000	100	100	10,000	≥1000 trigger requires STLC ≥2000 trigger requires TCLP
Beryllium	7.5	--	0.75	75	--
Cadmium	10 20	1.0	1.0	100	≥10 trigger requires STLC ≥20 trigger requires TCLP
Chromium	50 100	5.0	5.0	500	≥50 trigger requires STLC ≥100 trigger requires TCLP
Cobalt	800	--	80	8,000	--
Copper	250	--	25	2,500	--
Lead	13 50 100	5.0	5.0	1,000	≥13 trigger requires organic lead ≥50 trigger requires STLC ≥100 trigger requires TCLP
(Organic Lead)	--	--	--	13	--
Mercury	2.0 4.0	0.2	0.2	20	≥2 trigger requires STLC ≥4 trigger requires TCLP
Molybdenum	3,500	--	350	3,500	--
Nickel	200	--	20	2,000	--
Selenium	10 20	1.0	1.0	100	≥10 trigger requires STLC ≥20 trigger requires TCLP
Silver	50 100	5.0	5.0	500	≥50 trigger requires STLC ≥100 trigger requires TCLP
Thallium	70	--	7.0	700	--
Vanadium	240	--	24	2,400	--
Zinc	2,500	--	250	5,000	--

Washington Analytical Triggers:

Washington updates a Designation Tool that is available at:
http://www.ecy.wa.gov/programs/hwtr/manage_waste/des_intro.html

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 440-121300-1

Login Number: 121300
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-123148-1
Client Project/Site: 461 8th St., Oakland, CA

For:
GHD Services Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer

Heather Clark

Authorized for release by:
10/15/2015 11:24:38 AM

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

Table of Contents

Sample Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-123148-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-123148-1	S-5	Ground Water	09/29/15 12:48	10/02/15 09:50
440-123148-2	S-6	Ground Water	09/29/15 14:10	10/02/15 09:50
440-123148-3	S-26	Ground Water	09/29/15 13:30	10/02/15 09:50

Case Narrative

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-123148-1

Job ID: 440-123148-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-123148-1

Comments
No additional comments.

Receipt
The samples were received on 10/2/2015 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7º C and 3.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: S-5

Date Collected: 09/29/15 12:48
Date Received: 10/02/15 09:50

Lab Sample ID: 440-123148-1

Matrix: Ground Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	43000		1300		ug/L			10/07/15 01:52	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*10/07/15 01:52*	*25*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/07/15 01:52*	*25*
Toluene-d8 (Surr)	*113*		*80 - 128*		*10/07/15 01:52*	*25*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	460		13		ug/L			10/07/15 01:52	25
Ethylbenzene	1300		13		ug/L			10/07/15 01:52	25
Toluene	260		13		ug/L			10/07/15 01:52	25
Xylenes, Total	2900		25		ug/L			10/07/15 01:52	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/07/15 01:52*	*25*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*10/07/15 01:52*	*25*
Toluene-d8 (Surr)	*113*		*80 - 128*		*10/07/15 01:52*	*25*

Client Sample ID: S-6

Date Collected: 09/29/15 14:10
Date Received: 10/02/15 09:50

Lab Sample ID: 440-123148-2

Matrix: Ground Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	13000		2500		ug/L			10/07/15 02:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*10/07/15 02:21*	*50*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*10/07/15 02:21*	*50*
Toluene-d8 (Surr)	*117*		*80 - 128*		*10/07/15 02:21*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	730		25		ug/L			10/07/15 02:21	50
Ethylbenzene	550		25		ug/L			10/07/15 02:21	50
Toluene	1700		25		ug/L			10/07/15 02:21	50
Xylenes, Total	2000		50		ug/L			10/07/15 02:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*10/07/15 02:21*	*50*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*10/07/15 02:21*	*50*
Toluene-d8 (Surr)	*117*		*80 - 128*		*10/07/15 02:21*	*50*

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-123148-1

Client Sample ID: S-26
Date Collected: 09/29/15 13:30
Date Received: 10/02/15 09:50

Lab Sample ID: 440-123148-3
Matrix: Ground Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			10/07/15 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*		*76 - 132*		*10/07/15 02:51*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*10/07/15 02:51*	*1*
Toluene-d8 (Surr)	*115*		*80 - 128*		*10/07/15 02:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.0**		0.50		ug/L			10/07/15 02:51	1
Ethylbenzene	**1.7**		0.50		ug/L			10/07/15 02:51	1
Toluene	**1.4**		0.50		ug/L			10/07/15 02:51	1
Xylenes, Total	**5.0**		1.0		ug/L			10/07/15 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*10/07/15 02:51*	*1*
Dibromofluoromethane (Surr)	*121*		*76 - 132*		*10/07/15 02:51*	*1*
Toluene-d8 (Surr)	*115*		*80 - 128*		*10/07/15 02:51*	*1*

Method Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-123148-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-123148-1

Client Sample ID: S-5

Date Collected: 09/29/15 12:48
Date Received: 10/02/15 09:50

Lab Sample ID: 440-123148-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	10 mL	10 mL	285007	10/07/15 01:52	WK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		25	10 mL	10 mL	285008	10/07/15 01:52	WK	TAL IRV

Client Sample ID: S-6

Date Collected: 09/29/15 14:10
Date Received: 10/02/15 09:50

Lab Sample ID: 440-123148-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	285007	10/07/15 02:21	WK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		50	10 mL	10 mL	285008	10/07/15 02:21	WK	TAL IRV

Client Sample ID: S-26

Date Collected: 09/29/15 13:30
Date Received: 10/02/15 09:50

Lab Sample ID: 440-123148-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	285007	10/07/15 02:51	WK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	285008	10/07/15 02:51	WK	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-123148-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-285007/4
Matrix: Water
Analysis Batch: 285007

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/06/15 19:53	1
Ethylbenzene	ND		0.50		ug/L			10/06/15 19:53	1
Toluene	ND		0.50		ug/L			10/06/15 19:53	1
Xylenes, Total	ND		1.0		ug/L			10/06/15 19:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*10/06/15 19:53*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*10/06/15 19:53*	*1*
Toluene-d8 (Surr)	*116*		*80 - 128*		*10/06/15 19:53*	*1*

Lab Sample ID: LCS 440-285007/5
Matrix: Water
Analysis Batch: 285007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.2		ug/L		93	68 - 130
Ethylbenzene	25.0	24.1		ug/L		97	70 - 130
m,p-Xylene	25.0	24.4		ug/L		98	70 - 130
o-Xylene	25.0	24.5		ug/L		98	70 - 130
Toluene	25.0	23.8		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
Toluene-d8 (Surr)	*114*		*80 - 128*

Lab Sample ID: 440-123195-B-10 MS
Matrix: Water
Analysis Batch: 285007

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	37		25.0	57.6		ug/L		82	66 - 130
Ethylbenzene	1.1		25.0	25.6		ug/L		98	70 - 130
m,p-Xylene	ND		25.0	25.9		ug/L		101	70 - 133
o-Xylene	ND		25.0	24.8		ug/L		99	70 - 133
Toluene	0.76		25.0	24.6		ug/L		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
Toluene-d8 (Surr)	*114*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-123195-B-10 MSD
Matrix: Water
Analysis Batch: 285007

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	37		25.0	56.9		ug/L		79	66 - 130	1	20
Ethylbenzene	1.1		25.0	25.8		ug/L		99	70 - 130	1	20
m,p-Xylene	ND		25.0	26.7		ug/L		105	70 - 133	3	25
o-Xylene	ND		25.0	24.6		ug/L		98	70 - 133	1	20
Toluene	0.76		25.0	24.7		ug/L		96	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
Toluene-d8 (Surr)	*114*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-285008/4
Matrix: Water
Analysis Batch: 285008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			10/06/15 19:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*10/06/15 19:53*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*10/06/15 19:53*	*1*
Toluene-d8 (Surr)	*116*		*80 - 128*		*10/06/15 19:53*	*1*

Lab Sample ID: LCS 440-285008/6
Matrix: Water
Analysis Batch: 285008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Volatile Fuel Hydrocarbons (C4-C12)			500	449		ug/L		90	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*115*		*80 - 128*

Lab Sample ID: 440-123195-B-10 MS
Matrix: Water
Analysis Batch: 285008

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Volatile Fuel Hydrocarbons (C4-C12)	550		1730	2390		ug/L		107	50 - 145		

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-123195-B-10 MS
Matrix: Water
Analysis Batch: 285008

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*114*		*80 - 128*

Lab Sample ID: 440-123195-B-10 MSD
Matrix: Water
Analysis Batch: 285008

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	550		1730	2420		ug/L		108	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*114*		*80 - 128*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-123148-1

GC/MS VOA

Analysis Batch: 285007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-123148-1	S-5	Total/NA	Ground Water	8260B	
440-123148-2	S-6	Total/NA	Ground Water	8260B	
440-123148-3	S-26	Total/NA	Ground Water	8260B	
440-123195-B-10 MS	Matrix Spike	Total/NA	Water	8260B	
440-123195-B-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-285007/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-285007/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 285008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-123148-1	S-5	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-123148-2	S-6	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-123148-3	S-26	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-123195-B-10 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-123195-B-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-285008/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-285008/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: GHD Services Inc.
Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-123148-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Kansas	NELAP Secondary AB	7	E-10420	07-31-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE ( )
- ☐ SPL Houston ( )
- ☐ 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: 241501 Peter Schaefer

INCIDENT # (ENV SERVICES): 9 7 0 9 3 3 9 9

☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 1 2 9 4 5 3

DATE: 9/29/15

PAGE: 1 of 1

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):	Anni Kreml, CRA, Emeryville, CA
PHONE NO.:	510-420-3335
E-MAIL:	ShellEDF@CRAWorld.com Shell-US-LabDataManagement@CRAworld.co
CONSULTANT PROJECT NO.:	241501-95-12.03
PROJECT CONTACT (Hardcopy or PDF Report to):	Bart Gebbie
SAMPLER NAME(S) (Print):	Jacob Mathews
TELEPHONE:	(310) 885-4455 x 103
FAX:	(310) 637-5802
E-MAIL:	bgebbie@blainetech.com

LAB USE ONLY

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:

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

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabeddupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

Copy final report to Shell.Lab.Billing@craworld.com, ShellEDF@craworld.com,Shell-US-LabDataManagement@CRAworld.com, and pschaefer@CRAWorld.com

Email invoice to Shell.Lab.Billing@craworld.com

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT, °C

LAB USE ONLY	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	VOCs Full list (8260B)	Single Compound: ___ (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015B)	Container PID Readings or Laboratory Notes
WG	150929-MJ2	092915	MJ	S-5	1248	GW	✓					3	✓		✓										
	150929-MJ2	092915	MJ	S-6	1410	GW	✓					3	✓		✓										
↓	150929-MJ2	092915	MJ	S-26	1330	GW	✓					3	✓		✓										

440-123148 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	9/29/15	1555
[signature]	[signature]	10/1/15	1000
[signature]	Joran Muller	10-1-15	1200

Joran Muller 10-1-15 1600 TAI 10/2/15 9:50 2.9°C

3.9/2.7 4.8/3.6 Fed: 6518 8276 4499

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10/15/2015

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 440-123148-1

Login Number: 123148
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix E
Blaine Tech Services – Field Notes

WELL GAUGING DATA

Project # 150920-BW1 Date 9/20/15 Client Shell

Site 461 8th St. Oakland

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-26	0950	2					23.94	34.45	TOC	

WELL DEVELOPMENT DATA SHEET

Project #: 150920-BLW	Client: Shell
Developer: BLW	Date Developed: 9/20/15
Well I.D. S-26	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 34.45 After 34.50	Depth to Water: Before 23.94 After 26.88
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} / 231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.7 gallons	X	10	=	17.0 gallons
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0950	* Surged Well for 15 minutes					
1015	78.1	8.56	1391	>1000	3.4	silty
1018	77.2	8.49	1380	>1000	5.1	
1021	77.9	8.43	1231	71000	6.8	Surged pump - hard bottom
1024	76.4	8.24	1046	71000	8.5	
1027	74.3	7.98	796	71000	10.2	less silty
1030	74.2	7.91	781	981	11.9	cleaning
1033	74.1	7.89	786	722	13.6	
1036	73.9	7.89	744	513	15.3	
1039	73.9	7.65	691	307	17.0	
1042	73.8	7.61	636	244	18.7	
1045	73.8	7.58	621	201	20.4	
1048	73.8	7.57	604	146	22.1	

Did Well Dewater? No	If yes, note above.	Gallons Actually Evacuated:	22.1

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 97093399

DATE: 9/20/15

ADDRESS 461 8th St.

CITY & STATE Oaklnd, CA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
S-26	Standpipe	[Flush]	[G]	P	Size (inch) 8	[Y]	N	[G]	R	G	[R]	NL	[G]	P	no tag	Y	[N]	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = 1 | = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells:	G	P	[N/A]	If POOR, Borings/Well IDs or Location Description:		Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced
P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Brian Weeks Blaine Tech Services

Print or type Name of Field Personnel & Consultant Company

WELL GAUGING DATA

Project # 150929-M52 Date 9/29/15 Client CRA

Site 461 8th St, 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-5	1228	4	odor				18.49	25.59	T	
S-6	1354	4	odor				22.67	34.65		
S-26	1305	2					24.00	34.50	↓	

SHELL WELL MONITORING DATA SHEET

BTS #: 150929-MJ2	Site: 97093399
Sampler: MJ	Date: 9/29/15
Well I.D.: S-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 25.69	Depth to Water (DTW): 18.49
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]: 19.97	

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: _____

4.5 (Gals.) X 3 = 14.4 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
1236	68.9	6.51	787	593	5	odor
—	well dewatered		@	6.5 gal		
1248	68.1	6.64	696	408	—	

Did well dewater? (Yes) No Gallons actually evacuated: 6.5

Sampling Date: 9/29/15 Sampling Time: 1248 Depth to Water: 19.55

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 150929-MJ-2	Site: 97093399
Sampler: MJ	Date: 9/29/15
Well I.D.: S-6	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 34.85	Depth to Water (DTW): 22.67
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]: 25.10	

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:_____

7.9 (Gals.) X	3	=	23.7 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
1400	68.3	6.90	388	55	8	odor
1402	68.2	6.81	402	105	16	
1404	67.9	6.86	401	179	24	

Did well dewater? Yes (No) Gallons actually evacuated: 24

Sampling Date: 9/29/15 Sampling Time: 1410 Depth to Water: 24.70

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 150929-MJ2	Site: 97093399
Sampler: MJ	Date: 9/29/15
Well I.D.: S-26	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 34.50	Depth to Water (DTW): 24.00
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]: 26.10	

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: _____

1.64 (Gals.) X	3	= 5.04 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
1315	68.5	7.86	437	71000	1.75	
1320	66.1	7.48	442	71000	3.50	
1325	68.3	6.86	443	71000	5.25	

Did well dewater? Yes (No) Gallons actually evacuated: 5.25

Sampling Date: 9/29/15 Sampling Time: 1330 Depth to Water: 24.53

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

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

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

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

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

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 97093394

DATE: 9/29/15

ADDRESS 461 8th St, Oakland CA

CITY & STATE

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
S-5	Standpipe	Flush	G	P	Size (inch) 4	Y	N	G	R	G	R	NL	G	P	(in storm drain)	Y	N	
S-6	Standpipe	Flush	G	P	Size (inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N	
S-26	Standpipe	Flush	G	P	Size (inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = ____ ____ = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells:	G	P	N/A	If POOR, Borings/Well IDs or Location Description:		Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	✓	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

Print or type Name of Field Personnel & Consultant Company