CONESTOGA-ROVERS & ASSOCIATES

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

TRANSMITTAL

DATE: August 17, 2011

REFERENCE NO.: 060119

PROJECT NAME: 2350 (2368) Harrison Street, Oakland

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

RECEIVED
11:00 am, Aug 19, 2011
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

Sent via:
- ☐ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Second Quarter 2011

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

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

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Richard Burge, 490 Grand Avenue, Suite 100, Oakland, CA 94610

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

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

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

Re: Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California
SAP Code 173318
Incident No. 97743969
ACEH No. RO0000505

Dear Mr. Wickham:

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

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

Sincerely,

Denis L. Brown
Senior Program Manager

GROUNDWATER MONITORING REPORT - SECOND QUARTER 2011

FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET
OAKLAND, CALIFORNIA

SAP CODE	173318
INCIDENT NO.	97743969
AGENCY NO.	RO0000505

Prepared by:
Conestoga-Rovers & Associates

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

Office: (510) 420-0700
Fax: (510) 420-9170

web: http://www.CRAworld.com

AUGUST 17, 2011
REF. NO. 060119 (20)
This report is printed on recycled paper.

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF TABLES
(Following Text)

LIST OF APPENDICES

1.0 INTRODUCTION

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

1.1 SITE INFORMATION

Site Address	2350 (2368) Harrison Street, Oakland
Site Use	7-Eleven Store
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000505
Shell SAP Code	173318
Shell Incident No.	97743969

Date of most recent agency correspondence was March 16, 2011.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

CRA's February 18, 2011 *Review of Historical Aerial Photos and Sanborn Maps* presented a review of historical uses for the site and adjacent properties.

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

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

CRA's July 14, 2011 *Soil Vapor Sampling Report* presented results for soil vapor samples collected from soil vapor probes SVP-3 through SVP-5 on March 30, 2011 and from probes SVP-4 and SVP-5 on June 8, 2011. Near sub-slab soil vapor probes SVP-4 and SVP-5 were resampled because the analytical results from the March 30, 2011 samples appeared anomalous compared with the March 23, 2010 results. CRA resampled these probes on June 8, 2011. Soil vapor probes SVP-1, SVP-2, and SVP-2A could not be sampled during either sampling event due to water in the sampling tubing. We did not recommend additional soil vapor sampling.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Variable
Hydraulic Gradient	Variable
Depth to Water	3.13 to 7.09 feet below top of well casing

2.3 PROPOSED ACTIVITIES

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

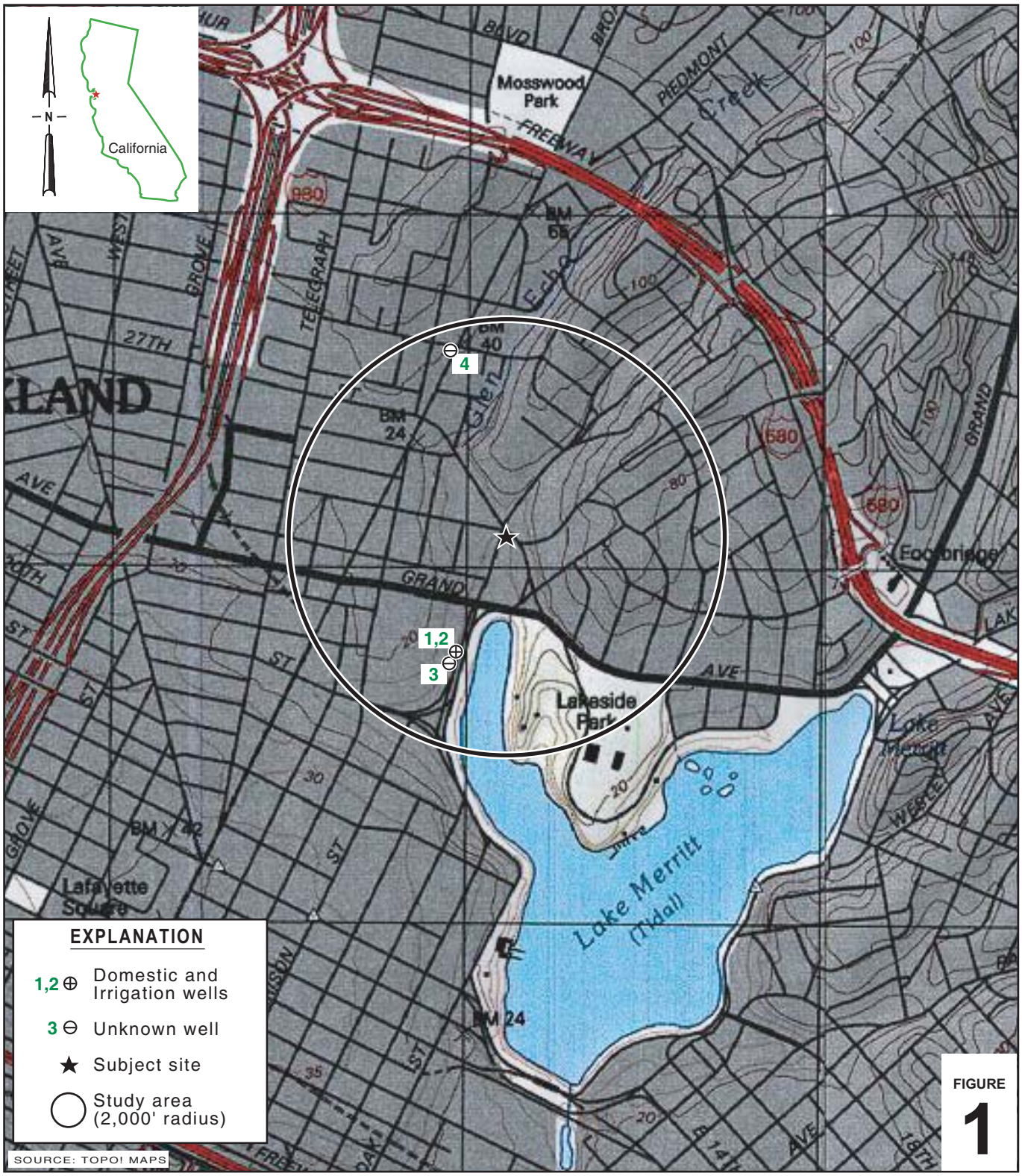
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG

FIGURES

10/31/08



I:\Shell\6-chars\0601-\060119-Oakland 2350 Harrison St\060119-FIGURES\060119 VICINITY.AI

FIGURE
1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Shell Service Station

2350 (2368) Harrison Street

Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

08/15/2011

Groundwater Contour and Chemical Concentration Map

June 24, 2011

EXPLANATION

- S-1 — Monitoring well location
- SVP-1 — Soil vapor probe location
- SVP-4 — Near sub-slab soil vapor probe
- STM — Storm drain (STM)
- SAN — Sanitary sewer line (SAN)
- W — Water line (W)
- E — Electrical line (E)
- G — Gas line (G)
- T — Telecommunications line (T)
- ? — Unknown utility line (?), indicated by private utility locator
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl)

Well
ELEV
TPHg
Benzene

- Well designation
- Groundwater elevation, in feet above msl
- TPHg and benzene concentrations are in micrograms per liter

Notes:
ND = Not detected

HARRISON STREET

HARRISON STREET

Underground Culvert & Storm Drain (Approx.)

Median

BAY PLACE

Former Shell Station
2368 Harrison St.

Street Light (typ.)

Sign

Pole

Driveway

Former Dispenser Islands

Former Dispenser Island

Former USTs

Former Waste Oil UST

Former Station Building

Former Drive-on Hoist

Former Tire Repair Hoist

Sidewalk

Planter

Lamp Post

Light Pole

SAN

Fenced Enclosure

Planter

7-11 Store Building
2350 Harrison St.

Beck's BMW
2344 Harrison St.

Parking Lot

Rouse Tire
2340 Harrison St.

Rouse Tire

Offices

S-1	6.80	3,000	140
S-2	4.21	1,500	9.9
S-3	3.98	ND	ND
S-4	4.86	ND	ND
S-5	3.74	ND	ND
S-6	3.47	860	4.8

SVP-1 SVP-2 SVP-2a SVP-3 SVP-4 SVP-5

4.00 4.00 4.00 5.00 5.00 6.00 6.00

N

0 10 20 40

Scale (ft)

I:\Shell\6-chars\0601--\060119-Oakland 2350 Harrison St\060119-REPORTS\060119-RPT20-20111060119 2QM11-GW.DWG

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California

FIGURE
2

TABLE

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Well ID	Date	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
S-1	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.93	5.92	4.01
S-1	06/11/2008	2,500	<250	540 a	1,300	46	<5.0	14	<5.0	<5.0	130	34	<10	<10	<2.5	<5.0	9.93	7.45	2.48
S-1	09/17/2008	2,400	<250	550 a	3,100	180	2.7	78	8.6	<1.0	150	30	<2.0	<2.0	<0.50	<1.0	9.93	5.05	4.88
S-1	12/11/2008	<1,000	<250	570 a	2,900	190	3.0	57	6.1	<1.0	160	31	<2.0	<2.0	<0.50	<1.0	9.93	6.87	3.06
S-1	02/25/2009	1,000	<250	620 a	3,300	270	<5.0	69	6.8	<5.0	180	26	<10	<10	<2.5	<5.0	9.93	4.05	5.88
S-1	05/26/2009	<1,000	---	660 a	1,700	230	<5.0	51	5.3	<5.0	170	32	<10	<10	<2.5	<5.0	9.93	3.34	6.59
S-1	11/30/2009	<1,000	---	510 a	2,200	200	3.0	42	2.6	<2.0	150	25	<4.0	<4.0	<1.0	<2.0	9.93	3.72	6.21
S-1	05/18/2010	<1,000	---	710 a	1,600	180	3.0	34	2.3	<2.0	150	25	<4.0	<4.0	<1.0	<2.0	9.93	5.54	4.39
S-1	12/09/2010	<1,000	---	590 a	2,500	140	2.4	40	2.2	<2.0	130	22	<4.0	<4.0	<1.0	<2.0	9.93	3.62	6.31
S-1	**06/24/2011**	**<4,900**	**—**	**660 b**	**3,000**	**140**	**2.4**	**45**	**2.8**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**9.93**	**3.13**	**6.80**
S-2	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.37	6.60	3.77
S-2	06/11/2008	1,300	<250	800 a	960	3.0	<5.0	<5.0	<5.0	<5.0	<50	20	<10	<10	<2.5	<5.0	10.37	6.80	3.57
S-2	09/17/2008	<1,000	<250	490 a	1,700	3.4	<1.0	8.3	1.1	<1.0	16	7.3	<2.0	<2.0	<0.50	<1.0	10.37	6.16	4.21
S-2	12/11/2008	<1,000	280	210	1,800	5.2	<1.0	6.9	1.2	<1.0	23	11	<2.0	<2.0	<0.50	<1.0	10.37	6.08	4.29
S-2	02/25/2009	<1,000	<250	590 a	2,100	7.7	2.6	3.8	2.0	<1.0	28	12	<2.0	<2.0	<0.50	<1.0	10.37	5.34	5.03
S-2	05/26/2009	<1,000	---	570 a	1,200	6.2	1.5	3.6	1.4	---	---	---	---	---	---	---	10.37	5.63	4.74
S-2	11/30/2009	<1,000	---	480 a	1,200	4.7	1.3	1.5	1.5	---	---	---	---	---	---	---	10.37	6.17	4.20
S-2	05/18/2010	1,900	---	740 a	1,300	7.3	2.3	1.1	1.9	---	---	---	---	---	---	---	10.37	5.61	4.76
S-2	12/09/2010	1,300	---	490 a	1,600	7.2	2.6	<1.0	2.5	---	---	---	---	---	---	---	10.37	6.33	4.04
S-2	**06/24/2011**	**<4,900**	**—**	**420 b**	**1,500**	**9.9**	**2.1**	**0.80**	**3.0**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**10.37**	**6.16**	**4.21**
S-3	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.49	6.93	3.56
S-3	06/11/2008	2,800	<250	100 a	82	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	7.45	3.04
S-3	09/17/2008	1,200	<250	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	6.86	3.63
S-3	12/11/2008	<1,000	<250	92	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	6.74	3.75
S-3	02/25/2009	<1,000	<250	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	6.01	4.48
S-3	05/26/2009	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.49	6.58	3.91
S-3	11/30/2009	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.49	6.72	3.77
S-3	05/18/2010	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.49	6.51	3.98
S-3	12/09/2010	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.49	6.53	3.96
S-3	**06/24/2011**	**<4,900**	**—**	**140 b**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**10.49**	**6.51**	**3.98**
S-4	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.56	7.11	3.45
S-4	06/11/2008	2,400	<250	56 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	10.92	-0.36
S-4	09/17/2008	<1,000	<250	51	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	6.43	4.13

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Well ID	Date	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
S-4	12/11/2008	4,400	<250	140	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	5.71	4.85
S-4	02/25/2009	<1,000	<250	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	5.71	4.85
S-4	05/26/2009	<1,000	---	80	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.56	5.72	4.84
S-4	11/30/2009	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.56	5.67	4.89
S-4	05/18/2010	1,200	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.56	6.91	3.65
S-4	12/09/2010	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.56	5.41	5.15
S-4	**06/24/2011**	**<4,900**	**---**	**56 b**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**10.56**	**5.70**	**4.86**
S-5	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.54	6.64	3.90
S-5	06/11/2008	1,700	<250	80 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.67	3.87
S-5	09/17/2008	<1,000	<250	64 a	60	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.73	3.81
S-5	12/11/2008	<1,000	<250	63	54	<0.50	<1.0	<1.0	1.1	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.77	3.77
S-5	02/25/2009	<1,000	<250	<50	100	<0.50	<1.0	1.1	1.1	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.65	3.89
S-5	05/26/2009	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	10.54	---	---
S-5	11/30/2009	<1,000	---	77	120	<0.50	<1.0	<1.0	1.1	---	---	---	---	---	---	---	10.54	6.91	3.63
S-5	05/18/2010	<1,000	---	140 a	77	<0.50	<1.0	1.1	1.1	---	---	---	---	---	---	---	10.54	6.75	3.79
S-5	12/09/2010	<1,000	---	<50	79	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.54	6.71	3.83
S-5	**06/24/2011**	**<4,900**	**---**	**410 b**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**10.54**	**6.80**	**3.74**
S-6	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.56	6.98	3.58
S-6	06/11/2008	2,700	<250	2,900 a	6,500	180	25	3.9	19.1	<1.0	190	18	<2.0	<2.0	<0.50	<1.0	10.56	7.04	3.52
S-6	09/17/2008	1,200	260 a	3,000 a	8,000	160	16	3.3	14.4	<1.0	65	8.7	<2.0	<2.0	<0.50	<1.0	10.56	6.92	3.64
S-6	12/11/2008	1,200	<250	2,700 a	5,300	120	7.3	<5.0	5.1	<5.0	92	<10	<10	<10	<2.5	<5.0	10.56	4.80	5.76
S-6	02/25/2009	<1,000	<250	1,700 a	6,100	82	6.3	<5.0	<5.0	<5.0	88	<10	<10	<10	<2.5	<5.0	10.56	6.30	4.26
S-6	05/26/2009	<1,000	---	2,100 a	3,400	50	4.0	<1.0	4.6	<1.0	69	7.8	<2.0	<2.0	<0.50	<1.0	10.56	6.87	3.69
S-6	11/30/2009	<1,000	---	950 a	2,200	33	3.6	<1.0	2.1	<1.0	40	4.6	<2.0	<2.0	<0.50	<1.0	10.56	6.94	3.62
S-6	05/18/2010	1,000	---	820 a	1,400	27	5.6	<1.0	2.9	<1.0	62	6.0	<2.0	<2.0	<0.50	<1.0	10.56	6.73	3.83
S-6	12/09/2010	<1,000	---	440 a	1,300	28	4.8	<1.0	2.7	<1.0	34	4.9	<2.0	<2.0	<0.50	<1.0	10.56	6.71	3.85
S-6	**06/24/2011**	**<4,900**	**---**	**410 b**	**860**	**4.8**	**1.2**	**<0.50**	**<1.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**10.56**	**7.09**	**3.47**

Notes:
Oil & grease (as hexane extractable material) analyzed by EPA Method 1664A
TPHmo = Total petroleum hydrocarbons as motor oil analyzed by EPA Method 8015B (M) with silica gel cleanup
TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015 with silica gel cleanup unless otherwise noted
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Well ID	*Date*	*Oil & Grease (µg/L)*	*TPHmo (µg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*EDB (µg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*

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
TOC = Top of casing elevation, in feet relative to mean sea level
GW = Groundwater
µg/L = Micrograms per liter
ft = Feet
MSL = Mean sea level
<x = Not detected at reporting limit x
--- = Not analyzed or available

a = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specific standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specific standard.
b = The sample extract was not subjected to silica gel treatment prior to analysis.

APPENDIX A

BLAINE TECH SERVICES, INC. - FIELD NOTES

WELL GAUGING DATA

Project # 110624 - MW2 Date 6/24/11 Client SHELL

Site 2350 HARRISON 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-1	1115	4					3.13	15.85		
S-2	1108	4					6.16	15.97		
S-3	1101	4					6.51	20.55		
S-4	1104	4					5.70	20.59		
S-5	1106	4					6.80	16.16		
S-6	1110	4	ODOR				7.09	15.55		

SHELL WELL MONITORING DATA SHEET

BTS #: 110624-MW2	Site: 2350 HARRISON ST, OAKLAND, CA
Sampler: MW	Date: 6/24/11
Well I.D.: S - 1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 15.85	Depth to Water (DTW): 3.13
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]: ~~12.72~~ 5.67	

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

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

8.3 (Gals.) X	3	=	24.9 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1255	66.3	7.04	10.09 ms	12	8.3	
WELL	DEWATERED	@	9 GALS			
1455	69.9	7.43	11.73 ms	241	—	

Did well dewater? (Yes) No Gallons actually evacuated: 9

Sampling Date: 6/24/11 Sampling Time: 1455 Depth to Water: 12.10 (24HR)

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

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

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 #: 110624-MW2	Site: 2350 HARRISON ST, OAKLAND, CA
Sampler: NW	Date: 6/24/11
Well I.D.: S-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 15.77	Depth to Water (DTW): 6.16
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]: 8.08	

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

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

6.2 (Gals.) X	3 =	18.6 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1225	67.5	8.00	2782	12	6.2	
1226	66.9	7.46	2603	16	12.4	
WELL	DEWATERED @ 13			GALS		
1430	70.0	7.90	2596	128	—	

Did well dewater? (Yes) No Gallons actually evacuated: 13

Sampling Date: 6/24/11 Sampling Time: 1430 Depth to Water: 10.68 (2HR)

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

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

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 #: 110624-MW2	Site: 2350 HARRISON ST, OAKLAND, CA
Sampler: WW	Date: 6/24/11
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 20.55	Depth to Water (DTW): 6.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.32	

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

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

Time	Temp (°F)	pH	Cond. (mS or ~~uS~~)	Turbidity (NTUs)	Gals. Removed	Observations
1130	70.5	8.00	2650	20	9.1	
1132	70.1	7.70	3064	56	18.2	
WELL	DEWATERED @ 22 GALS					
1335	~~7.87~~ 71.9	7.87	3061	274	—	

Did well dewater? (Yes) No Gallons actually evacuated: 22

Sampling Date: 6/24/11 Sampling Time: 1335 Depth to Water: 15.44 (2HR)

Sample I.D.: S-3 Laboratory: (Test America) Other_____

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

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 #: 110624-MW2	Site: 2350 HARRISON ST, OAKLAND, CA
Sampler: MW	Date: 6/24/11
Well I.D.: S - 4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 20.59	Depth to Water (DTW): 5.70
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]: 8.68	

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

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

9.7 (Gals.) X	3	= 29.1 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
1154	68.0	7.80	6142	23	9.7	odor
1156	66.7	7.50	7208	23	19.4	
WELL DEWATERED @ 21 GALS						
1400	70.7	7.48	6905	108	—	

Did well dewater? (Yes) No Gallons actually evacuated: 21

Sampling Date: 6/24/11 Sampling Time: 1400 Depth to Water: 14.04 (24hr)

Sample I.D.: S - 4 Laboratory: (Test America) Other_____

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

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 #: 110624-MW2	Site: 2350 HARRISON ST, OAKLAND, CA
Sampler: WW	Date: 6/24/11
Well I.D.: S-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 16.16	Depth to Water (DTW): 6.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.67	

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

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

6.1 (Gals.) X	3 =	18.3 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1203	66.5	7.40	12.98ms	10	6.1	
WELL	DEWATERED @			7 GALS		
1415	70.2	7.82	13.30ms	297	—	

Did well dewater? (Yes) No Gallons actually evacuated: 7

Sampling Date: 6/24/11 Sampling Time: 1415 Depth to Water: 10.35 (24hr)

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

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

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 #: 110624-MW2	Site: 2350 HARRISON ST, OAKLAND, CA
Sampler: WW	Date: 6/24/11
Well I.D.: S-6	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 15.55	Depth to Water (DTW): 7.09
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]: 8.78	

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

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

5.5 (Gals.) X	3	=	16.5 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1235	66.5	7.81	3326	23	5.5	
WELL DEWATERED @				6 GALS		
1440	71.1	7.10	3174	64	—	

Did well dewater? (Yes) No Gallons actually evacuated: 6

Sampling Date: 6/24/11 Sampling Time: 1440 Depth to Water: 7.86 ~~8 HR~~

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

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

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

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

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

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 2350 HARRISON ST, OAKLAND, CA Date 6/24/11

Job Number 110624-WW2 Technician HW Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
S-1	X	X							
S-2	X	X							
S-3	X	X							
S-4	X	X							
S-5	X	X	X						
S-6	X	X							

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

Notes:

APPENDIX B

TEST AMERICA –
LABORATORY REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: 2350 (2368) Harrison St.,
Oakland, CA

Sampled: 06/24/11
Received: 06/28/11
Issued: 07/13/11 08:56

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

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

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IUF2500-01	S-1	Water
IUF2500-02	S-2	Water
IUF2500-03	S-3	Water
IUF2500-04	S-4	Water
IUF2500-05	S-5	Water
IUF2500-06	S-6	Water

Reviewed By:

Philip Sanelle

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA
Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUF2500-01 (S-1 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11F3691	51	**660**	1.01	6/28/2011	6/29/2011	
Surrogate: n-Octacosane (45-120%)				*85 %*				
Sample ID: IUF2500-02 (S-2 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11F3691	50	**420**	0.99	6/28/2011	6/29/2011	
Surrogate: n-Octacosane (45-120%)				*81 %*				
Sample ID: IUF2500-03 (S-3 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11F3691	49	**140**	0.98	6/28/2011	6/29/2011	
Surrogate: n-Octacosane (45-120%)				*70 %*				
Sample ID: IUF2500-04 (S-4 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11F3691	47	**56**	0.943	6/28/2011	6/29/2011	
Surrogate: n-Octacosane (45-120%)				*86 %*				
Sample ID: IUF2500-05 (S-5 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11F3691	51	**410**	1.02	6/28/2011	6/29/2011	
Surrogate: n-Octacosane (45-120%)				*82 %*				
Sample ID: IUF2500-06 (S-6 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11F3691	48	**410**	0.952	6/28/2011	6/29/2011	
Surrogate: n-Octacosane (45-120%)				*77 %*				

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA
Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUF2500-01 (S-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11G0239	120	**3000**	2.5	7/5/2011	7/6/2011	
Surrogate: Dibromofluoromethane (80-120%)				*93 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*101 %*				
Sample ID: IUF2500-02 (S-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11G0239	50	**1500**	1	7/5/2011	7/6/2011	
Surrogate: Dibromofluoromethane (80-120%)				*90 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				
Sample ID: IUF2500-03 (S-3 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11G0239	50	ND	1	7/5/2011	7/6/2011	
Surrogate: Dibromofluoromethane (80-120%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				
Sample ID: IUF2500-04 (S-4 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11G0239	50	ND	1	7/5/2011	7/6/2011	
Surrogate: Dibromofluoromethane (80-120%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				
Sample ID: IUF2500-05 (S-5 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11G0239	50	ND	1	7/5/2011	7/6/2011	
Surrogate: Dibromofluoromethane (80-120%)				*93 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				
Sample ID: IUF2500-06 (S-6 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11G0239	50	**860**	1	7/5/2011	7/6/2011	
Surrogate: Dibromofluoromethane (80-120%)				*94 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*101 %*				

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA

Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUF2500-01 (S-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11G0239	1.2	**140**	2.5	7/5/2011	7/6/2011	
Ethylbenzene	EPA 8260B	11G0239	1.2	**45**	2.5	7/5/2011	7/6/2011	
Toluene	EPA 8260B	11G0239	1.2	**2.4**	2.5	7/5/2011	7/6/2011	
Xylenes, Total	EPA 8260B	11G0239	2.5	**2.8**	2.5	7/5/2011	7/6/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*101 %*				
Surrogate: Dibromofluoromethane (80-120%)				*93 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Sample ID: IUF2500-02 (S-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11G0239	0.50	**9.9**	1	7/5/2011	7/6/2011	
Ethylbenzene	EPA 8260B	11G0239	0.50	**0.80**	1	7/5/2011	7/6/2011	
Toluene	EPA 8260B	11G0239	0.50	**2.1**	1	7/5/2011	7/6/2011	
Xylenes, Total	EPA 8260B	11G0239	1.0	**3.0**	1	7/5/2011	7/6/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				
Surrogate: Dibromofluoromethane (80-120%)				*90 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Sample ID: IUF2500-03 (S-3 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Ethylbenzene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Toluene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Xylenes, Total	EPA 8260B	11G0239	1.0	ND	1	7/5/2011	7/6/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				
Surrogate: Dibromofluoromethane (80-120%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA
Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUF2500-04 (S-4 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Ethylbenzene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Toluene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Xylenes, Total	EPA 8260B	11G0239	1.0	ND	1	7/5/2011	7/6/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				
Surrogate: Dibromofluoromethane (80-120%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Sample ID: IUF2500-05 (S-5 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Ethylbenzene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Toluene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Xylenes, Total	EPA 8260B	11G0239	1.0	ND	1	7/5/2011	7/6/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				
Surrogate: Dibromofluoromethane (80-120%)				*93 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Sample ID: IUF2500-06 (S-6 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11G0239	0.50	**4.8**	1	7/5/2011	7/6/2011	
Ethylbenzene	EPA 8260B	11G0239	0.50	ND	1	7/5/2011	7/6/2011	
Toluene	EPA 8260B	11G0239	0.50	**1.2**	1	7/5/2011	7/6/2011	
Xylenes, Total	EPA 8260B	11G0239	1.0	ND	1	7/5/2011	7/6/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*101 %*				
Surrogate: Dibromofluoromethane (80-120%)				*94 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA
Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUF2500-01 (S-1 - Water)								
Reporting Units: ug/l								
Hexane Extractable Material (Oil & Grease)	EPA 1664A	11G0748	4900	ND	1	7/8/2011	7/8/2011	
Sample ID: IUF2500-02 (S-2 - Water)								
Reporting Units: ug/l								
Hexane Extractable Material (Oil & Grease)	EPA 1664A	11G0748	4900	ND	1	7/8/2011	7/8/2011	
Sample ID: IUF2500-03 (S-3 - Water)								
Reporting Units: ug/l								
Hexane Extractable Material (Oil & Grease)	EPA 1664A	11G0748	4900	ND	1	7/8/2011	7/8/2011	
Sample ID: IUF2500-04 (S-4 - Water)								
Reporting Units: ug/l								
Hexane Extractable Material (Oil & Grease)	EPA 1664A	11G0748	4900	ND	1	7/8/2011	7/8/2011	
Sample ID: IUF2500-05 (S-5 - Water)								
Reporting Units: ug/l								
Hexane Extractable Material (Oil & Grease)	EPA 1664A	11G0748	4900	ND	1	7/8/2011	7/8/2011	
Sample ID: IUF2500-06 (S-6 - Water)								
Reporting Units: ug/l								
Hexane Extractable Material (Oil & Grease)	EPA 1664A	11G0748	4900	ND	1	7/8/2011	7/8/2011	

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA
Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11F3691 Extracted: 06/28/11										
Blank Analyzed: 06/29/2011 (11F3691-BLK1)										
DRO (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	*178*		*ug/l*	*200*		*89*	*45-120*			
LCS Analyzed: 06/29/2011 (11F3691-BS1)										**MNR1**
DRO (C10-C28)	635	50	ug/l	1000		63	40-115			
Surrogate: n-Octacosane	*138*		*ug/l*	*200*		*69*	*45-120*			
LCS Dup Analyzed: 06/29/2011 (11F3691-BSD1)										
DRO (C10-C28)	846	50	ug/l	1000		85	40-115	29	25	*R-7*
Surrogate: n-Octacosane	*175*		*ug/l*	*200*		*87*	*45-120*			

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA
Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G0239 Extracted: 07/05/11										
Blank Analyzed: 07/05/2011 (11G0239-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
LCS Analyzed: 07/05/2011 (11G0239-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	482	50	ug/l	500		96	55-130			
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Analyzed: 07/05/2011 (11G0239-MS1)					**Source: IUF2416-05**					
Volatile Fuel Hydrocarbons (C4-C12)	4690	50	ug/l	1720	2890	104	50-145			
Surrogate: Dibromofluoromethane	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/l*	*25.0*		*107*	*80-120*			
Matrix Spike Dup Analyzed: 07/05/2011 (11G0239-MSD1)					**Source: IUF2416-05**					
Volatile Fuel Hydrocarbons (C4-C12)	4460	50	ug/l	1720	2890	91	50-145	5	20	
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.5*		*ug/l*	*25.0*		*106*	*80-120*			

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA
Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G0239 Extracted: 07/05/11										
Blank Analyzed: 07/05/2011 (11G0239-BLK1)										
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
LCS Analyzed: 07/05/2011 (11G0239-BS1)										
Benzene	24.6	0.50	ug/l	25.0		98	70-120			
Ethylbenzene	27.7	0.50	ug/l	25.0		111	75-125			
Toluene	26.7	0.50	ug/l	25.0		107	70-120			
m,p-Xylenes	58.8	1.0	ug/l	50.0		118	75-125			
o-Xylene	29.6	0.50	ug/l	25.0		118	75-125			
Xylenes, Total	88.4	1.0	ug/l	75.0		118	70-125			
Surrogate: 4-Bromofluorobenzene	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Dibromofluoromethane	*26.7*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 07/05/2011 (11G0239-MS1)					**Source: IUF2416-05**					
Benzene	25.5	0.50	ug/l	25.0	0.810	99	65-125			
Ethylbenzene	28.7	0.50	ug/l	25.0	ND	115	65-130			
Toluene	27.6	0.50	ug/l	25.0	0.440	108	70-125			
m,p-Xylenes	61.2	1.0	ug/l	50.0	ND	122	65-130			
o-Xylene	30.3	0.50	ug/l	25.0	ND	121	65-125			
Xylenes, Total	91.6	1.0	ug/l	75.0	ND	122	60-130			
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Dibromofluoromethane	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: 2350 (2368) Harrison St., Oakland, CA

Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G0239 Extracted: 07/05/11										
Matrix Spike Dup Analyzed: 07/05/2011 (11G0239-MSD1)					**Source: IUF2416-05**					
Benzene	24.9	0.50	ug/l	25.0	0.810	96	65-125	2	20	
Ethylbenzene	29.0	0.50	ug/l	25.0	ND	116	65-130	0.9	20	
Toluene	26.7	0.50	ug/l	25.0	0.440	105	70-125	3	20	
m,p-Xylenes	61.2	1.0	ug/l	50.0	ND	122	65-130	0.1	25	
o-Xylene	30.2	0.50	ug/l	25.0	ND	121	65-125	0.5	20	
Xylenes, Total	91.4	1.0	ug/l	75.0	ND	122	60-130	0.2	20	
Surrogate: 4-Bromofluorobenzene	*26.5*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA
Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G0748 Extracted: 07/08/11										
Blank Analyzed: 07/08/2011 (11G0748-BLK1)										
Hexane Extractable Material (Oil & Grease)	ND	5000	ug/l							
LCS Analyzed: 07/08/2011 (11G0748-BS1)										**MNR1**
Hexane Extractable Material (Oil & Grease)	19100	5000	ug/l	20000		96	78-114			
LCS Dup Analyzed: 07/08/2011 (11G0748-BSD1)										
Hexane Extractable Material (Oil & Grease)	19300	5000	ug/l	20000		96	78-114	1	11	

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: 2350 (2368) Harrison St., Oakland, CA

Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

DATA QUALIFIERS AND DEFINITIONS

MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
R-7	LCS/LCSD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For Volatile Fuel Hydrocarbons (C4-C12):

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

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 2350 (2368) Harrison St., Oakland, CA
Report Number: IUF2500

Sampled: 06/24/11
Received: 06/28/11

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 1664A	Water	X	X
EPA 8015B	Water	X	X
EPA 8260B	Water	X	X
TPH by GC/MS	Water	X	X

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

TestAmerica Irvine

Philip Sanelle
Project Manager

Shell Oil Products Chain Of Custody Record

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

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

Print Bill To Contact Name: Peter Schaefer 060119

INCIDENT # (ENV SERVICES): 9 7 7 4 3 9 6 9

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 6/24/11

PAGE: 1 of 1

PO #: 4 0 - 4 0 3 4 9 7 3

SAP #:

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2350 (2368) Harrison St., Oakland

State: CA

GLOBAL ID NO.: T0600102237

ADDRESS: 1680 Rogers Avenue, San Jose, CA

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

PHONE NO.: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 110624-WW2

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

SAMPLER NAME(S) (Print): WILLIAM WONG

LAB USE ONLY: IUF2500

TELEPHONE: 310-995-4455 x 108

FAX: 310-637-5802

E-MAIL: lking@blainetech.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:

SPECIAL INSTRUCTIONS OR NOTES :

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

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

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT C°: 4.8

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8015M)	TPHg (8015M)		BTEX (8260B)	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)	OIL & GREASE (1664A)					Container PID Readings or Laboratory Notes
	S-1	6/24/11	1455	W	5			2		7	X	X			X										X					
	S-2	↓	1430	↓	↓			↓		↓	X	X			X										X					
	S-3	↓	1335	↓	↓			↓		↓	X	X			X										X					
	S-4	↓	1400	↓	↓			↓		↓	X	X			X										X					
	S-5	↓	1415	↓	↓			↓		↓	X	X			X										X					0.0 IN 6/28
	S-6	↓	1440	↓	↓			↓		↓	X	X			X										X					10:50

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] SAMPLE CUSTODIAN	6/24/11	1635
[signature]	[signature] TASF	6/27/11	1000
[signature]	[signature] Gerald Naylor	06/27/11	1045

05/2/06 Revision

Gerald Naylor 6-27-11 16:00

6/28/11 0940 4.8°C o/s