



**CONESTOGA-ROVERS
& ASSOCIATES**

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

TRANSMITTAL

DATE: February 7, 2012 REFERENCE NO.: 240695
PROJECT NAME: 4895 Hacienda Drive, Dublin
TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED
3:23 pm, Feb 15, 2012
Alameda County
Environmental Health

Please find enclosed: Draft Final
 Originals Other
 Prints
Sent via: Mail Same Day Courier
 Overnight Courier Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Fourth Quarter 2011

As Requested For Review and Comment
 For Your Use _____

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

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Carl Cox, CJC Hacienda LLC (property owner), 4431 Stoneridge Drive #100, Pleasanton, CA 94588-8417
Cheryl Dizon, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551

Completed by: Peter Schaefer Signed:

Filing: **Correspondence File**



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

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

Re: Shell-branded Service Station
4895 Hacienda Drive
Dublin, California
SAP Code 165112
Incident No. 97795893
ACEH Case No. RO0002985

Dear Mr. Wickham:

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

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

Sincerely,

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

Denis L. Brown
Senior Program Manager



GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2011

**SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE
DUBLIN, CALIFORNIA**

**SAP CODE 165112
INCIDENT NO. 97795893
AGENCY NO. RO0002985**

**FEBRUARY 7, 2012
REF. NO. 240695 (5)**

This report is printed on recycled paper.

**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>

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION.....	1
1.1 SITE INFORMATION	1
2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION.....	1
2.1 CURRENT QUARTER'S ACTIVITIES.....	1
2.2 CURRENT QUARTER'S FINDINGS	2
2.3 PROPOSED ACTIVITIES.....	2

LIST OF FIGURES

(Following Text)

FIGURE 1 VICINITY MAP

FIGURE 2 GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP

LIST OF TABLES

(Following Text)

TABLE 1 GROUNDWATER DATA

LIST OF APPENDICES

APPENDIX A BLAINE TECH SERVICES, INC. - FIELD NOTES

APPENDIX B TEST AMERICA - LABORATORY REPORT

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	4895 Hacienda Drive, Dublin
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0002985
Shell SAP Code	165112
Shell Incident No.	97795893

Date of most recent agency correspondence was December 12, 2011 (electronic).

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the modified monitoring program for this site which is discussed below.

Alameda County Environmental Health's (ACEH's) July 13, 2011 electronic correspondence approved CRA's request to remove some fuel oxygenates and lead scavengers from the analysis suite. We implemented this change beginning with this groundwater monitoring event.

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

2.2 CURRENT QUARTER'S FINDINGS

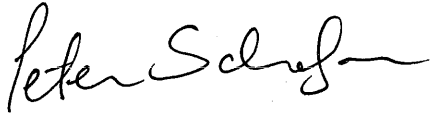
Groundwater Flow Direction	Generally southeasterly to southerly
Hydraulic Gradient	Variable
Depth to Water	13.10 to 14.49 feet below top of well casing

2.3 PROPOSED ACTIVITIES

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

On May 27, 2011, CRA submitted a *Revised Subsurface Investigation Work Plan*, which superseded Delta Consultants' September 10, 2010 *Additional Site Assessment Work Plan*. ACEH's June 20, 2011 letter approved the revised work plan. CRA will conduct the approved investigation following receipt of appropriate drilling permits from Zone 7 Water Agency. We have received completed access agreements from both off-site property owners and we are tentatively scheduled to begin the field investigation on March 12, 2012.

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



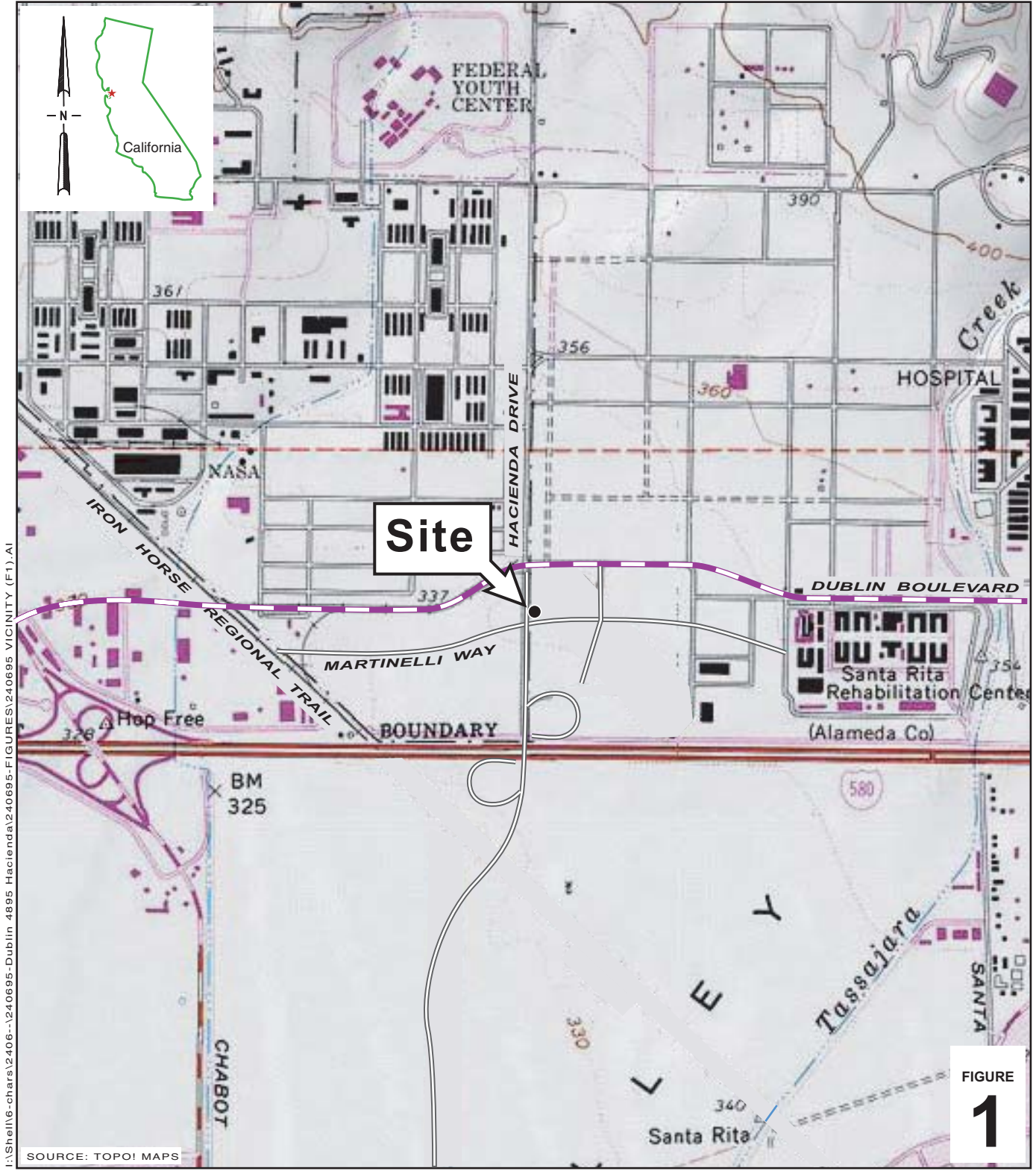
Peter Schaefer, CHG, CEG



Aubrey K. Cool, PG



FIGURES



Shell-branded Service Station
 4895 Hacienda Drive
 Dublin, California



**CONESTOGA-ROVERS
 & ASSOCIATES**

Vicinity Map

EXPLANATION

- CPT-1 Proposed CPT location
- MW-1 Monitoring well location
- B-1 Soil boring location (Delta, 2008)

xx.xx Groundwater elevation contour, in feet above mean sea level (msl); dashed where inferred

Well	ELEV.	Benzene	MTBE
MW-1	336.23	ND	ND
MW-2	336.17	ND	1.0
MW-3	336.17	ND	32
MW-4	335.98	ND	2.8
MW-5	335.91	NDa	130
MW-6	336.23	ND	17

Notes:
 ND = Not detected
 NDa = Elevated reporting limit; see laboratory report for details

HACIENDA DRIVE

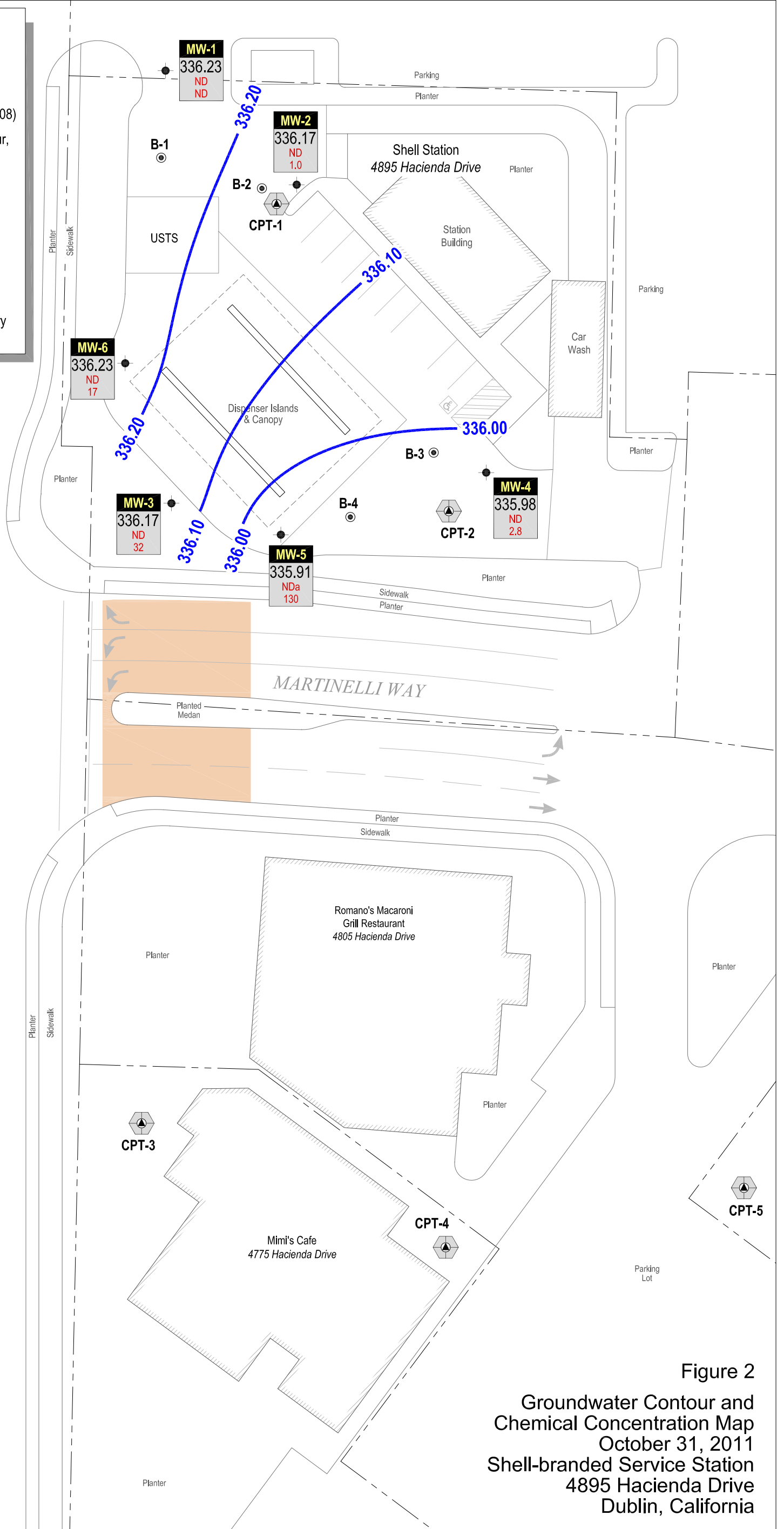
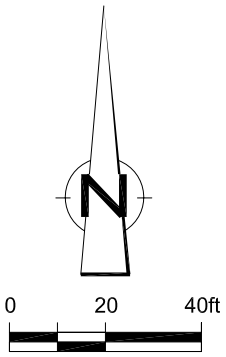


Figure 2
 Groundwater Contour and
 Chemical Concentration Map
 October 31, 2011
 Shell-branded Service Station
 4895 Hacienda Drive
 Dublin, California



TABLE

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE, DUBLIN, CALIFORNIA**

Well ID	Date	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)	TOC (ft MSL)	Depth to	GW
														Water	Elevation
														(ft TOC)	(ft MSL)
MW-1	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	349.33	11.65	337.68
MW-1	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	349.33	11.75	337.58
MW-1	05/06/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	349.33	11.99	337.34
MW-1	08/05/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	349.33	12.98	336.35
MW-1	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	349.33	13.50	335.83
MW-1	02/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	349.33	13.04	336.29
MW-1	05/16/2011	<50	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	349.33	12.05	337.28
MW-1	10/31/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	349.33	13.10	336.23
MW-2	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.66	12.95	337.71
MW-2	03/19/2010	<50	230	<0.50	<1.0	<1.0	<1.0	180	<10	<2.0	<2.0	<2.0	350.66	13.16	337.50
MW-2	05/06/2010	<50	100	<0.50	<1.0	<1.0	<1.0	130	<10	<2.0	<2.0	<2.0	350.66	13.32	337.34
MW-2	08/05/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	11	<10	<2.0	<2.0	<2.0	350.66	14.34	336.32
MW-2	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	7.9	<10	<2.0	<2.0	<2.0	350.66	14.28	336.38
MW-2	02/03/2011	<47	50	<0.50	<0.50	<0.50	<1.0	42	24	<1.0	<1.0	<1.0	350.66	14.45	336.21
MW-2	05/16/2011	<50	<50	<0.50	<0.50	<0.50	<1.0	22	<10	<1.0	<1.0	<1.0	350.66	13.50	337.16
MW-2	10/31/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	1.0	<10	---	---	---	350.66	14.49	336.17
MW-3	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.18	12.62	337.56
MW-3	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	11	<10	<2.0	<2.0	<2.0	350.18	12.84	337.34
MW-3	05/06/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	6.9	<10	<2.0	<2.0	<2.0	350.18	13.51	336.67
MW-3	08/05/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	9.6	<10	<2.0	<2.0	<2.0	350.18	14.28	335.90
MW-3	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	20	<10	<2.0	<2.0	<2.0	350.18	14.41	335.77
MW-3	02/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	16	<10	<1.0	<1.0	<1.0	350.18	14.08	336.10
MW-3	05/16/2011	<50	<50	<0.50	<0.50	<0.50	<1.0	10	<10	<1.0	<1.0	<1.0	350.18	13.05	337.13
MW-3	10/31/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	32	<10	---	---	---	350.18	14.01	336.17
MW-4	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.32	12.85	337.47
MW-4	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	3.3	<10	<2.0	<2.0	<2.0	350.32	12.98	337.34
MW-4	05/06/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	350.32	13.35	336.97
MW-4	08/05/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	350.32	14.23	336.09

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE, DUBLIN, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHd</i> ($\mu\text{g/L}$)	<i>TPHg</i> ($\mu\text{g/L}$)	<i>B</i> ($\mu\text{g/L}$)	<i>T</i> ($\mu\text{g/L}$)	<i>E</i> ($\mu\text{g/L}$)	<i>X</i> ($\mu\text{g/L}$)	<i>MTBE</i> ($\mu\text{g/L}$)	<i>TBA</i> ($\mu\text{g/L}$)	<i>DIPE</i> ($\mu\text{g/L}$)	<i>ETBE</i> ($\mu\text{g/L}$)	<i>TAME</i> ($\mu\text{g/L}$)	<i>TOC</i> (ft MSL)	<i>Depth to Water</i> (ft TOC)	<i>GW Elevation</i> (ft MSL)
MW-4	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	350.32	14.24	336.08
MW-4	02/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	1.7	<10	<1.0	<1.0	<1.0	350.32	14.24	336.08
MW-4	05/16/2011	<51	<50	<0.50	<0.50	<0.50	<1.0	29	<10	<1.0	<1.0	<1.0	350.32	13.64	336.68
MW-4	10/31/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	2.8	<10	---	---	---	350.32	14.34	335.98
MW-5	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.31	12.80	337.51
MW-5	03/19/2010	<50	410	<0.50	<1.0	<1.0	<1.0	310	<10	<2.0	<2.0	<2.0	350.31	12.99	337.32
MW-5	05/06/2010	<50	160	<1.0	<2.0	<2.0	<2.0	210	<20	<4.0	<4.0	<4.0	350.31	13.21	337.10
MW-5	08/05/2010	<50	310	<1.0	<2.0	<2.0	<2.0	250	39	<4.0	<4.0	<4.0	350.31	14.25	336.06
MW-5	11/08/2010	<50	210	<1.0	<2.0	<2.0	<2.0	210	<20	<4.0	<4.0	<4.0	350.31	14.20	336.11
MW-5	02/03/2011	<47	79 a	<0.50	<0.50	<0.50	<1.0	140	<10	<1.0	<1.0	<1.0	350.31	14.28	336.03
MW-5	05/16/2011	<50	150	<0.50	<0.50	<0.50	<1.0	200	21 b	<1.0	<1.0	<1.0	350.31	13.65	336.66
MW-5	10/31/2011	<47	100	<1.0	<1.0	<1.0	<2.0	130	<20	---	---	---	350.31	14.40	335.91
MW-6	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.29	12.79	337.50
MW-6	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	18	<10	<2.0	<2.0	<2.0	350.29	12.84	337.45
MW-6	05/06/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	7.4	<10	<2.0	<2.0	<2.0	350.29	13.14	337.15
MW-6	08/05/2010	<50	53	<0.50	<1.0	<1.0	<1.0	4.0	<10	<2.0	<2.0	<2.0	350.29	14.12	336.17
MW-6	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	7.8	<10	<2.0	<2.0	<2.0	350.29	14.12	336.17
MW-6	02/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	18	<10	<1.0	<1.0	<1.0	350.29	14.05	336.24
MW-6	05/16/2011	<51	<50	<0.50	<0.50	<0.50	<1.0	9.8	<10	<1.0	<1.0	<1.0	350.29	13.19	337.10
MW-6	10/31/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	17	<10	---	---	---	350.29	14.06	336.23

Notes:

TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015 with silica gel cleanup

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

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

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE, DUBLIN, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHd</i> ($\mu\text{g/L}$)	<i>TPHg</i> ($\mu\text{g/L}$)	<i>B</i> ($\mu\text{g/L}$)	<i>T</i> ($\mu\text{g/L}$)	<i>E</i> ($\mu\text{g/L}$)	<i>X</i> ($\mu\text{g/L}$)	<i>MTBE</i> ($\mu\text{g/L}$)	<i>TBA</i> ($\mu\text{g/L}$)	<i>DIPE</i> ($\mu\text{g/L}$)	<i>ETBE</i> ($\mu\text{g/L}$)	<i>TAME</i> ($\mu\text{g/L}$)	<i>TOC</i> (ft MSL)	<i>Depth to</i> <i>Water</i> (ft TOC)	<i>GW</i> <i>Elevation</i> (ft MSL)
----------------	-------------	------------------------------------	------------------------------------	---------------------------------	---------------------------------	---------------------------------	---------------------------------	------------------------------------	-----------------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------	---	---

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

TOC = Top of casing elevation, in feet relative to mean sea level

GW = Groundwater

$\mu\text{g/L}$ = Micrograms per liter

ft = Feet

MSL = Mean sea level

<x = Not detected at reporting limit x

--- = Not analyzed or not available

a = Hydrocarbon result partly due to individual peaks in quantitation range

b = Due to the low levels of analyte found in the sample, the analyte was qualitatively identified based on the compound's retention time and the presence of a single mass ion.

Site wells surveyed March 19, 2010 by Mid Coast Engineers.

APPENDIX A

BLAINE TECH SERVICES, INC. -
FIELD NOTES

WELL GAUGING DATA

Project # 111031-GR1 Date 10/31/2011 Client Shell

Site 4895 Hacienda Dr., Dublin, 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
MW-1	0832	4					13.10	30.22	TOC	
MW-2	0922	4					14.49	29.99	TOC	
MW-3	0932	4					14.01	25.12	TOC	Bailed Water
MW-4	0848	4					14.34	27.37	TOC	
MW-5	0945	4					14.40	29.63	TOC	
MW-6	0905	4					14.06	25.30	TOC	tag no longer attached

SHELL WELL MONITORING DATA SHEET

BTS #: 111031-GR1	Site: 4895 Hacienda Dr.; Dublin, CA
Sampler: GR	Date: 10/31/2011
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 29.99	Depth to Water (DTW): 14.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.59	

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

10.1 (Gals.) X	3	= 30.3 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 <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1245	21.1	7.69	2231	148	10.1	
1247	20.8	7.48	2106	46	20.2	
1249	20.7	7.42	2095	28	30.3	
1251	20.7	7.39	2079	23	40.4	DTW = 14.70

Did well dewater? Yes No Gallons actually evacuated: 40.4

Sampling Date: 10/31/2011 Sampling Time: 1305 Depth to Water: 14.70

Sample I.D.: MW-2 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 #: 111031-GR1	Site: 4895 Hacienda Dr., Dublin, CA
Sampler: GR	Date: 10/31/2011
Well I.D.: MW-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 27.37	Depth to Water (DTW): 14.34
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.95	

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

$$\begin{matrix}
 8.5 \\
 8.5 \\
 8.5
 \end{matrix}
 \text{ (Gals.) } \times \underline{3} = \underline{25.5} \text{ Gals.}$$

1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1056	20.5	7.83	2346	82	8.5	
1059	21.3	7.56	2448	146	17.0	
1100	21.5	7.51	2507	100	25.5	DTW - 15.03

Did well dewater? Yes No Gallons actually evacuated: 25.5

Sampling Date: 10/31/2011 Sampling Time: 1110 Depth to Water: 15.03

Sample I.D.: MW-4 Laboratory: Test America Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 111031-GR1	Site: 4895 Hacienda Dr.; Dublin; CA
Sampler: GR	Date: 10/31/2011
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 29.63	Depth to Water (DTW): 14.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.45	

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

9.9 (Gals.) X 3 = 29.7 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1353	22.9	7.57	1616	63	9.9	
1355	21.9	7.41	1615	63	19.8	
1357	21.7	7.38	1637	51	29.7	
1359	21.7	7.36	1638	71	39.6	DTW - 15.12

Did well dewater? Yes No Gallons actually evacuated: 39.6

Sampling Date: 10/31/2011 Sampling Time: 1410 Depth to Water: 15.12

Sample I.D.: MW-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 #: 111031 - GR1	Site: 4895 Hacienda Dr.; Dublin, CA
Sampler: GR	Date: 10/31/2011
Well I.D.: MW-6	Well Diameter: 2 3 ④ 6 8
Total Well Depth (TD): 25.30	Depth to Water (DTW): 14.06
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]: 16.31	

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

Other: _____

7.3 (Gals.) X 3 = 21.9 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1027	21.0	7.77	1573	168	7.3	
1029	19.7	7.65	1525	182	14.6	
1030	19.3	7.63	1481	78	21.9	
1031	19.2	7.61	1470	39	29.2	DTW- 14.67

Did well dewater? Yes No Gallons actually evacuated: 29.2

Sampling Date: 10/31/2011 Sampling Time: 1140 Depth to Water: 14.67

Sample I.D.: MW-6 Laboratory: Test America Other _____

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

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

INVOICE # 111021-CML

ADDRESS 4895 Hacienda Dr

DATE: 10/31/2011

CITY & STATE Dublin, CA

Well ID	Observations Upon Arrival													Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials									
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Property*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition													
MW-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N									
MW-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N									
MW-3	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	BAILED WATER FROM WELLS	Y	N									
MW-4	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N									
MW-5	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N									
MW-6	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	I.D. TAG NOT SECURED	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 =										0	= TOTAL # OF LOCKS REPLACED										0					
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 & PM Initials						
NA		X																								
Building																										
Building w/ Fence Comp.		G			P			N/A			G			P			N/A			Y		N				
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/A			G			P		N/A			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).

Gregory Roberts, BTS
Print or type Name of Field Personnel & Consultant Company

APPENDIX B

TEST AMERICA -
LABORATORY REPORT

LABORATORY REPORT

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

Project: 4895 Hacienda Dr., Dublin, CA

Sampled: 10/31/11
Received: 11/03/11
Issued: 11/15/11 18:02

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

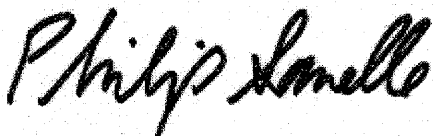
The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. 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
IUK0456-01	MW-1	Water
IUK0456-02	MW-2	Water
IUK0456-03	MW-3	Water
IUK0456-04	MW-4	Water
IUK0456-05	MW-5	Water
IUK0456-06	MW-6	Water

Reviewed By:



TestAmerica Irvine

Philip Sanelle
Project Manager

Blaine Tech San Jose/CRA Shell 1680 Rogers Avenue San Jose, CA 95112-1105 Attention: Lorin King	Project ID: 4895 Hacienda Dr., Dublin, CA Report Number: IUK0456	Sampled: 10/31/11 Received: 11/03/11
--	---	---

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUK0456-01 (MW-1 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11K0698	47	ND	0.943	11/4/2011	11/5/2011	
				82 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUK0456-02 (MW-2 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11K0698	47	ND	0.943	11/4/2011	11/5/2011	
				81 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUK0456-03 (MW-3 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11K0698	47	ND	0.943	11/4/2011	11/5/2011	
				86 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUK0456-04 (MW-4 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11K0698	47	ND	0.943	11/4/2011	11/5/2011	
				81 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUK0456-05 (MW-5 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11K0698	47	ND	0.943	11/4/2011	11/5/2011	
				78 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUK0456-06 (MW-6 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11K0698	47	ND	0.943	11/4/2011	11/5/2011	
				87 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								

TestAmerica Irvine

Philip Sanelle
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

Blaine Tech San Jose/CRA Shell 1680 Rogers Avenue San Jose, CA 95112-1105 Attention: Lorin King	Project ID: 4895 Hacienda Dr., Dublin, CA Report Number: IUK0456	Sampled: 10/31/11 Received: 11/03/11
--	---	---

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: IUK0456-01 (MW-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K1608	50	ND	1	11/11/2011	11/11/2011	
Surrogate: Dibromofluoromethane (80-120%)				104 %				
Surrogate: Toluene-d8 (80-120%)				100 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				99 %				
Sample ID: IUK0456-02 (MW-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K1608	50	ND	1	11/11/2011	11/11/2011	
Surrogate: Dibromofluoromethane (80-120%)				106 %				
Surrogate: Toluene-d8 (80-120%)				99 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				99 %				
Sample ID: IUK0456-03 (MW-3 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K1608	50	ND	1	11/11/2011	11/11/2011	
Surrogate: Dibromofluoromethane (80-120%)				108 %				
Surrogate: Toluene-d8 (80-120%)				101 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				99 %				
Sample ID: IUK0456-04 (MW-4 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K1608	50	ND	1	11/11/2011	11/12/2011	
Surrogate: Dibromofluoromethane (80-120%)				106 %				
Surrogate: Toluene-d8 (80-120%)				100 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				98 %				
Sample ID: IUK0456-05 (MW-5 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K1608	100	100	2	11/11/2011	11/12/2011	
Surrogate: Dibromofluoromethane (80-120%)				104 %				
Surrogate: Toluene-d8 (80-120%)				102 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				98 %				
Sample ID: IUK0456-06 (MW-6 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K1608	50	ND	1	11/11/2011	11/12/2011	
Surrogate: Dibromofluoromethane (80-120%)				107 %				
Surrogate: Toluene-d8 (80-120%)				101 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				99 %				

TestAmerica Irvine

Philip Sanelle
Project Manager

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

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUK0456

Sampled: 10/31/11

Received: 11/03/11

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: IUK0456-01 (MW-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/11/2011	
Ethylbenzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/11/2011	
Toluene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/11/2011	
Xylenes, Total	EPA 8260B	11K1608	1.0	ND	1	11/11/2011	11/11/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K1608	1.0	ND	1	11/11/2011	11/11/2011	
tert-Butanol (TBA)	EPA 8260B	11K1608	10	ND	1	11/11/2011	11/11/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				99 %				
Surrogate: Dibromofluoromethane (80-120%)				104 %				
Surrogate: Toluene-d8 (80-120%)				100 %				
Sample ID: IUK0456-02 (MW-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/11/2011	
Ethylbenzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/11/2011	
Toluene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/11/2011	
Xylenes, Total	EPA 8260B	11K1608	1.0	ND	1	11/11/2011	11/11/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K1608	1.0	1.0	1	11/11/2011	11/11/2011	
tert-Butanol (TBA)	EPA 8260B	11K1608	10	ND	1	11/11/2011	11/11/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				99 %				
Surrogate: Dibromofluoromethane (80-120%)				106 %				
Surrogate: Toluene-d8 (80-120%)				99 %				
Sample ID: IUK0456-03 (MW-3 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/11/2011	
Ethylbenzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/11/2011	
Toluene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/11/2011	
Xylenes, Total	EPA 8260B	11K1608	1.0	ND	1	11/11/2011	11/11/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K1608	1.0	32	1	11/11/2011	11/11/2011	
tert-Butanol (TBA)	EPA 8260B	11K1608	10	ND	1	11/11/2011	11/11/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				99 %				
Surrogate: Dibromofluoromethane (80-120%)				108 %				
Surrogate: Toluene-d8 (80-120%)				101 %				

TestAmerica Irvine

Philip Sanelle
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IUK0456 <Page 4 of 11>

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

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUK0456

Sampled: 10/31/11

Received: 11/03/11

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: IUK0456-04 (MW-4 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/12/2011	
Ethylbenzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/12/2011	
Toluene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/12/2011	
Xylenes, Total	EPA 8260B	11K1608	1.0	ND	1	11/11/2011	11/12/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K1608	1.0	2.8	1	11/11/2011	11/12/2011	
tert-Butanol (TBA)	EPA 8260B	11K1608	10	ND	1	11/11/2011	11/12/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				98 %				
Surrogate: Dibromofluoromethane (80-120%)				106 %				
Surrogate: Toluene-d8 (80-120%)				100 %				
Sample ID: IUK0456-05 (MW-5 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K1608	1.0	ND	2	11/11/2011	11/12/2011	
Ethylbenzene	EPA 8260B	11K1608	1.0	ND	2	11/11/2011	11/12/2011	
Toluene	EPA 8260B	11K1608	1.0	ND	2	11/11/2011	11/12/2011	
Xylenes, Total	EPA 8260B	11K1608	2.0	ND	2	11/11/2011	11/12/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K1608	2.0	130	2	11/11/2011	11/12/2011	
tert-Butanol (TBA)	EPA 8260B	11K1608	20	ND	2	11/11/2011	11/12/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				98 %				
Surrogate: Dibromofluoromethane (80-120%)				104 %				
Surrogate: Toluene-d8 (80-120%)				102 %				
Sample ID: IUK0456-06 (MW-6 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/12/2011	
Ethylbenzene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/12/2011	
Toluene	EPA 8260B	11K1608	0.50	ND	1	11/11/2011	11/12/2011	
Xylenes, Total	EPA 8260B	11K1608	1.0	ND	1	11/11/2011	11/12/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K1608	1.0	17	1	11/11/2011	11/12/2011	
tert-Butanol (TBA)	EPA 8260B	11K1608	10	ND	1	11/11/2011	11/12/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				99 %				
Surrogate: Dibromofluoromethane (80-120%)				107 %				
Surrogate: Toluene-d8 (80-120%)				101 %				

TestAmerica Irvine

Philip Sanelle
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IUK0456 <Page 5 of 11>

Blaine Tech San Jose/CRA Shell 1680 Rogers Avenue San Jose, CA 95112-1105 Attention: Lorin King	Project ID: 4895 Hacienda Dr., Dublin, CA Report Number: IUK0456	Sampled: 10/31/11 Received: 11/03/11
--	---	---

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0698 Extracted: 11/04/11										
Blank Analyzed: 11/05/2011 (11K0698-BLK1)										
DRO (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	161		ug/l	200		81	45-120			
LCS Analyzed: 11/05/2011 (11K0698-BS1)										
DRO (C10-C28)	759	50	ug/l	1000		76	40-115			MNR1
Surrogate: n-Octacosane	169		ug/l	200		84	45-120			
LCS Dup Analyzed: 11/05/2011 (11K0698-BSD1)										
DRO (C10-C28)	832	50	ug/l	1000		83	40-115	9	25	
Surrogate: n-Octacosane	192		ug/l	200		96	45-120			

TestAmerica Irvine
Philip Sanelle
Project Manager

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

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUK0456

Sampled: 10/31/11

Received: 11/03/11

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: 11K1608 Extracted: 11/11/11										
Blank Analyzed: 11/11/2011 (11K1608-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	24.5		ug/l	25.0		98	80-120			
LCS Analyzed: 11/11/2011 (11K1608-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	447	50	ug/l	500		89	55-130			
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	25.1		ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	25.0		ug/l	25.0		100	80-120			
Matrix Spike Analyzed: 11/11/2011 (11K1608-MS1) Source: IUK0456-01										
Volatile Fuel Hydrocarbons (C4-C12)	1410	50	ug/l	1720	ND	82	50-145			
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	80-120			
Surrogate: Toluene-d8	25.1		ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	25.1		ug/l	25.0		100	80-120			
Matrix Spike Dup Analyzed: 11/11/2011 (11K1608-MSD1) Source: IUK0456-01										
Volatile Fuel Hydrocarbons (C4-C12)	1370	50	ug/l	1720	ND	79	50-145	3	20	
Surrogate: Dibromofluoromethane	25.4		ug/l	25.0		102	80-120			
Surrogate: Toluene-d8	25.3		ug/l	25.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	80-120			

TestAmerica Irvine

Philip Sanelle
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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

Project ID: 4895 Hacienda Dr., Dublin, CA
Report Number: IUK0456

Sampled: 10/31/11
Received: 11/03/11

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: 11K1608 Extracted: 11/11/11									
Blank Analyzed: 11/11/2011 (11K1608-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						
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l						
tert-Butanol (TBA)	ND	10	ug/l						
Surrogate: 4-Bromofluorobenzene	24.5		ug/l	25.0		98	80-120		
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	80-120		
Surrogate: Toluene-d8	25.4		ug/l	25.0		101	80-120		
LCS Analyzed: 11/11/2011 (11K1608-BS1)									
Benzene	23.7	0.50	ug/l	25.0		95	70-120		
Ethylbenzene	27.1	0.50	ug/l	25.0		108	75-125		
Toluene	23.4	0.50	ug/l	25.0		94	70-120		
m,p-Xylenes	54.8	1.0	ug/l	50.0		110	75-125		
o-Xylene	28.1	0.50	ug/l	25.0		113	75-125		
Xylenes, Total	82.9	1.0	ug/l	75.0		111	70-125		
Methyl-tert-butyl Ether (MTBE)	23.3	1.0	ug/l	25.0		93	60-135		
tert-Butanol (TBA)	158	10	ug/l	125		126	70-135		
Surrogate: 4-Bromofluorobenzene	24.9		ug/l	25.0		100	80-120		
Surrogate: Dibromofluoromethane	25.3		ug/l	25.0		101	80-120		
Surrogate: Toluene-d8	25.1		ug/l	25.0		100	80-120		
Matrix Spike Analyzed: 11/11/2011 (11K1608-MS1)					Source: IUK0456-01				
Benzene	24.1	0.50	ug/l	25.0	ND	96	65-125		
Ethylbenzene	27.3	0.50	ug/l	25.0	ND	109	65-130		
Toluene	23.9	0.50	ug/l	25.0	ND	96	70-125		
m,p-Xylenes	55.0	1.0	ug/l	50.0	ND	110	65-130		
o-Xylene	28.6	0.50	ug/l	25.0	ND	115	65-125		
Xylenes, Total	83.6	1.0	ug/l	75.0	ND	112	60-130		
Methyl-tert-butyl Ether (MTBE)	24.2	1.0	ug/l	25.0	ND	97	55-145		
tert-Butanol (TBA)	152	10	ug/l	125	ND	122	65-140		
Surrogate: 4-Bromofluorobenzene	25.1		ug/l	25.0		100	80-120		
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	80-120		
Surrogate: Toluene-d8	25.1		ug/l	25.0		100	80-120		

TestAmerica Irvine

Philip Sanelle
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUK0456

Sampled: 10/31/11

Received: 11/03/11

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: 11K1608 Extracted: 11/11/11										
Matrix Spike Dup Analyzed: 11/11/2011 (11K1608-MSD1)					Source: IUK0456-01					
Benzene	24.0	0.50	ug/l	25.0	ND	96	65-125	0.5	20	
Ethylbenzene	26.9	0.50	ug/l	25.0	ND	108	65-130	2	20	
Toluene	23.7	0.50	ug/l	25.0	ND	95	70-125	0.8	20	
m,p-Xylenes	53.9	1.0	ug/l	50.0	ND	108	65-130	2	25	
o-Xylene	27.6	0.50	ug/l	25.0	ND	111	65-125	4	20	
Xylenes, Total	81.6	1.0	ug/l	75.0	ND	109	60-130	3	20	
Methyl-tert-butyl Ether (MTBE)	24.2	1.0	ug/l	25.0	ND	97	55-145	0.3	25	
tert-Butanol (TBA)	155	10	ug/l	125	ND	124	65-140	1	25	
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	80-120			
Surrogate: Dibromofluoromethane	25.4		ug/l	25.0		102	80-120			
Surrogate: Toluene-d8	25.3		ug/l	25.0		101	80-120			

TestAmerica Irvine

Philip Sanelle
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUK0456

Sampled: 10/31/11

Received: 11/03/11

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

ADDITIONAL COMMENTS

For 8260 analyses:

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

For Volatile Fuel Hydrocarbons (C4-C12):

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

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

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IUK0456 <Page 10 of 11>

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

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUK0456

Sampled: 10/31/11

Received: 11/03/11

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
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

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IUK0456 <Page 11 of 11>

LAB (LOCATION)

- CALSCIENCE ()
- SPL ()
- XENCO ()
- TEST AMERICA (IRVINE)
- OTHER ()



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: Peter Schaefer 165112

INCIDENT # (ENV SERVICES) 9 7 7 9 5 8 9 3

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

SAP #

DATE: 10/31/2011

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

ADDRESS: 1680 Rogers Avenue, San Jose, CA

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

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:

SITE ADDRESS: Street and City: 4895 Hacienda Dr., Dublin

State: CA

GLOBAL ID NO.: T10000000423

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

PHONE NO.: 510-420-3343

E-MAIL: shelledf@croworld.com

CONSULTANT PROJECT NO.: 111031-GR1

SAMPLER NAME(S) (P/N): Gregory Roberts

LAB USE ONLY: EUK0456

SPECIAL INSTRUCTIONS OR NOTES:

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

Run TPH-D with Silica Gel Clean Up

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB. USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					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)	TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																
	MW-1	10/21/11	1035	GW	X			X		5	X	X			X									29	
	MW-2	10/21/11	1305	GW	X			X		5	X	X			X										
	MW-3	10/21/11	1335	GW	X			X		5	X	X			X										
	MW-4	10/21/11	1110	GW	X			X		5	X	X			X										
	MW-5	10/21/11	1410	GW	X			X		5	X	X			X										
	MW-6	10/21/11	1140	GW	X			X		5	X	X			X										

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	<i>[Signature]</i> (sample custodian)	10/31/2011	1545
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	<i>[Signature]</i>	11/2/11	1150
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i> 11/2/11 17:00	<i>[Signature]</i>	11/3/11	0950

0/5