



**CONESTOGA-ROVERS
& ASSOCIATES**

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TRANSMITTAL

DATE: May 5, 2011 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

RECEIVED
4:18 pm, May 09, 2011
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 - First 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, 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: *Peter Schaefer*

Filing: **Correspondence File**



Mr. 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 located below the "Sincerely," text.

Denis L. Brown
Senior Program Manager



GROUNDWATER MONITORING REPORT - FIRST QUARTER 2011

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

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

**MAY 5, 2011
REF. NO. 240695 (2)**

This report is printed on recycled paper.

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

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1.0 INTRODUCTION

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

1.1 SITE INFORMATION

Site Address	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 February 14, 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 established monitoring program for this site.

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

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Generally southerly to southeasterly
----------------------------	--------------------------------------

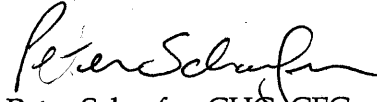
Hydraulic Gradient	Variable
Depth to Water	13.04 to 14.45 feet below top of well casing

2.3 PROPOSED ACTIVITIES

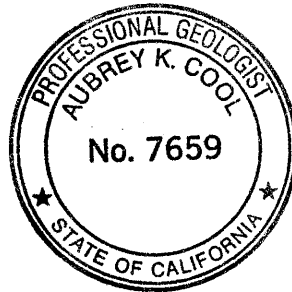
Blaine will gauge and sample wells according to the modified monitoring program described in CRA's *Groundwater Monitoring Report - Fourth Quarter 2010*. This site will be monitored semiannually during the second and fourth quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

As discussed in our February 17, 2011 meeting with Alameda County Environmental Health (ACEH), Delta Consultants' September 10, 2010 *Additional Site Assessment Work Plan* proposed drilling two on-site soil borings to assess the vertical extent of groundwater impacts and installing one down-gradient well to assess the horizontal extent of groundwater impacts. We propose to complete the on-site borings as proposed by Delta; however, due to off-site access issues, we propose drilling three off-site soil borings at the locations shown on Figure 2 instead of installing a down-gradient well. We will submit a revised work plan detailing our proposal. ACEH's February 14, 2011 letter granted an extension for the investigation report to June 18, 2011.

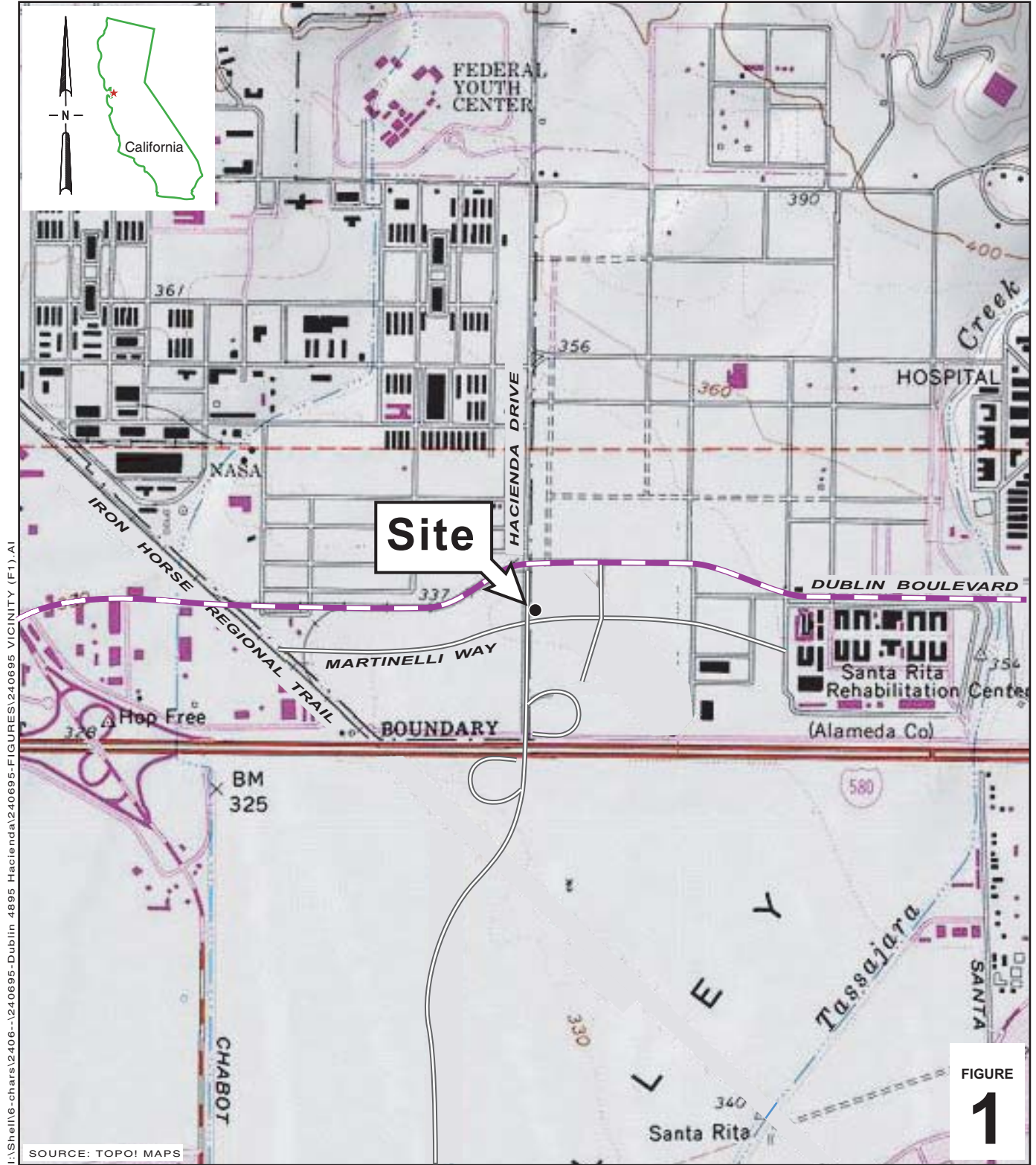
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES


Peter Schaefer, CHG, CEG


Aubrey K. Cool, PG



FIGURES



I:\Shell\6-charts\2406--\240695-Dublin_4895-Hacienda\240695-FIGURES\240695 VICINITY (F1).AI

FIGURE 1

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	336.29	ND	ND
MW-2	336.21	ND	42
MW-3	336.10	ND	16
MW-4	336.08	ND	1.7
MW-5	336.03	ND	140
MW-6	336.24	ND	18

Notes:
ND = Not detected

HACIENDA DRIVE

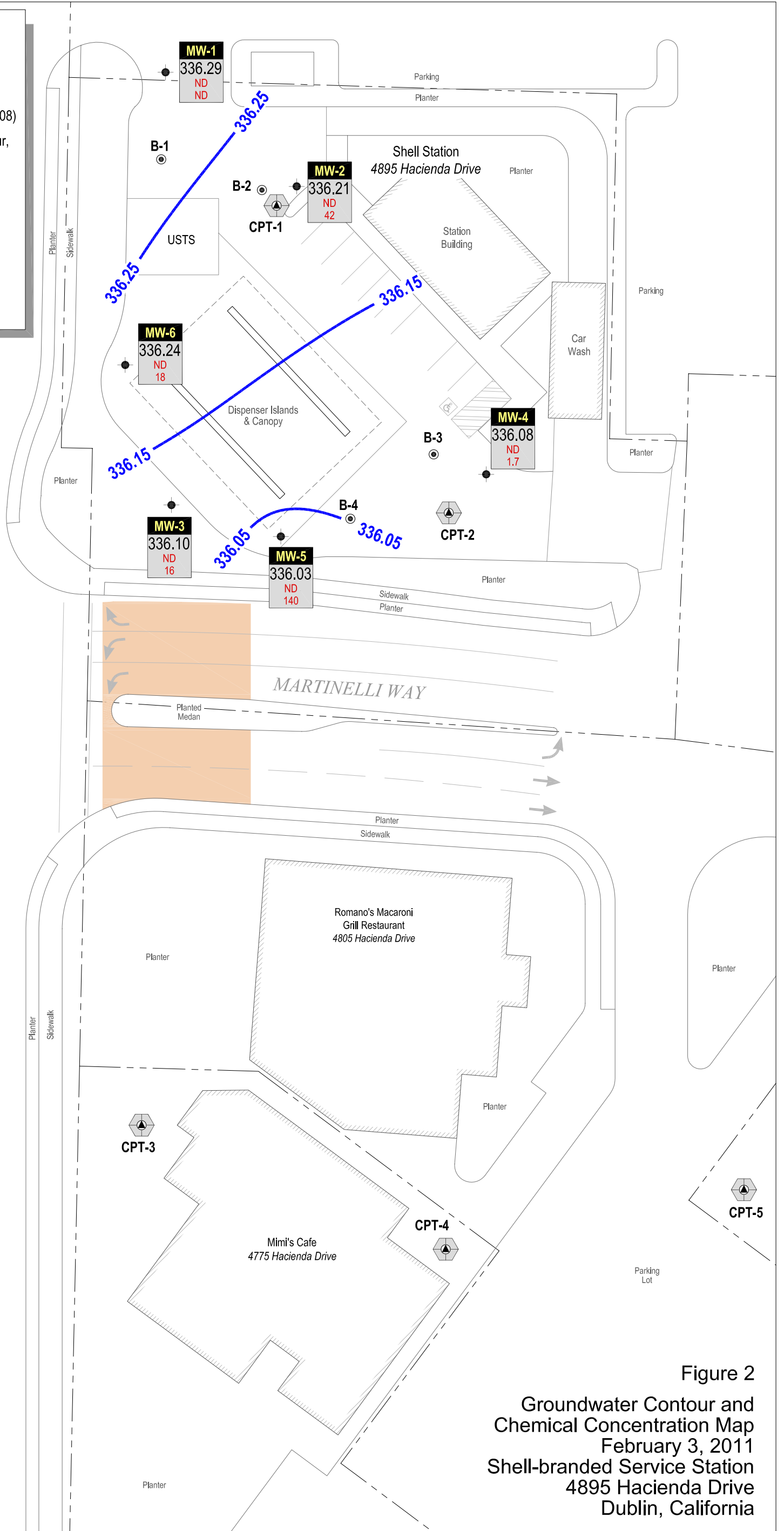
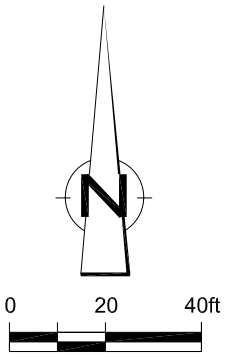


Figure 2
Groundwater Contour and
Chemical Concentration Map
February 3, 2011
Shell-branded Service Station
4895 Hacienda Drive
Dublin, California



TABLE

TABLE 1

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

<i>Well ID</i>	<i>Date</i>	<i>TOC (msl)</i>	<i>DTW (msl)</i>	<i>GWE (msl)</i>	<i>TPPH (µg/L)</i>	<i>TEPH (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>
MW-1	03/15/2010	349.33	11.65	337.68	---	---	---	---	---	---	---	---	---	---	---
MW-1	03/19/2010	349.33	11.75	337.58	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0
MW-1	05/06/2010	349.33	11.99	337.34	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0
MW-1	08/05/2010	349.33	12.98	336.35	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0
MW-1	11/08/2010	349.33	13.50	335.83	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0
MW-1	02/03/2011	349.33	13.04	336.29	<50	<47 a	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-2	03/15/2010	350.66	12.95	337.71	---	---	---	---	---	---	---	---	---	---	---
MW-2	03/19/2010	350.66	13.16	337.50	230	<50 a	<0.50	<1.0	<1.0	<1.0	180	<10	<2.0	<2.0	<2.0
MW-2	05/06/2010	350.66	13.32	337.34	100	<50 a	<0.50	<1.0	<1.0	<1.0	130	<10	<2.0	<2.0	<2.0
MW-2	08/05/2010	350.66	14.34	336.32	<50	<50 a	<0.50	<1.0	<1.0	<1.0	11	<10	<2.0	<2.0	<2.0
MW-2	11/08/2010	350.66	14.28	336.38	<50	<50 a	<0.50	<1.0	<1.0	<1.0	7.9	<10	<2.0	<2.0	<2.0
MW-2	02/03/2011	350.66	14.45	336.21	50	<47 a	<0.50	<0.50	<0.50	<1.0	42	24	<1.0	<1.0	<1.0
MW-3	03/15/2010	350.18	12.62	337.56	---	---	---	---	---	---	---	---	---	---	---
MW-3	03/19/2010	350.18	12.84	337.34	<50	<50 a	<0.50	<1.0	<1.0	<1.0	11	<10	<2.0	<2.0	<2.0
MW-3	05/06/2010	350.18	13.51	336.67	<50	<50 a	<0.50	<1.0	<1.0	<1.0	6.9	<10	<2.0	<2.0	<2.0
MW-3	08/05/2010	350.18	14.28	335.90	<50	<50 a	<0.50	<1.0	<1.0	<1.0	9.6	<10	<2.0	<2.0	<2.0
MW-3	11/08/2010	350.18	14.41	335.77	<50	<50 a	<0.50	<1.0	<1.0	<1.0	20	<10	<2.0	<2.0	<2.0
MW-3	02/03/2011	350.18	14.08	336.10	<50	<47 a	<0.50	<0.50	<0.50	<1.0	16	<10	<1.0	<1.0	<1.0
MW-4	03/15/2010	350.32	12.85	337.47	---	---	---	---	---	---	---	---	---	---	---
MW-4	03/19/2010	350.32	12.98	337.34	<50	<50 a	<0.50	<1.0	<1.0	<1.0	3.3	<10	<2.0	<2.0	<2.0
MW-4	05/06/2010	350.32	13.35	336.97	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0
MW-4	08/05/2010	350.32	14.23	336.09	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0
MW-4	11/08/2010	350.32	14.24	336.08	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0
MW-4	02/03/2011	350.32	14.24	336.08	<50	<47 a	<0.50	<0.50	<0.50	<1.0	1.7	<10	<1.0	<1.0	<1.0
MW-5	03/15/2010	350.31	12.80	337.51	---	---	---	---	---	---	---	---	---	---	---
MW-5	03/19/2010	350.31	12.99	337.32	410	<50 a	<0.50	<1.0	<1.0	<1.0	310	<10	<2.0	<2.0	<2.0

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

<i>Well ID</i>	<i>Date</i>	<i>TOC (msl)</i>	<i>DTW (msl)</i>	<i>GWE (msl)</i>	<i>TPPH (µg/L)</i>	<i>TEPH (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>
MW-5	05/06/2010	350.31	13.21	337.10	160	<50 a	<1.0	<2.0	<2.0	<2.0	210	<20	<4.0	<4.0	<4.0
MW-5	08/05/2010	350.31	14.25	336.06	310	<50 a	<1.0	<2.0	<2.0	<2.0	250	39	<4.0	<4.0	<4.0
MW-5	11/08/2010	350.31	14.20	336.11	210	<50 a	<1.0	<2.0	<2.0	<2.0	210	<20	<4.0	<4.0	<4.0
MW-5	02/03/2011	350.31	14.28	336.03	79 b	<47 a	<0.50	<0.50	<0.50	<1.0	140	<10	<1.0	<1.0	<1.0
MW-6	03/15/2010	350.29	12.79	337.50	---	---	---	---	---	---	---	---	---	---	---
MW-6	03/19/2010	350.29	12.84	337.45	<50	<50 a	<0.50	<1.0	<1.0	<1.0	18	<10	<2.0	<2.0	<2.0
MW-6	05/06/2010	350.29	13.14	337.15	<50	<50 a	<0.50	<1.0	<1.0	<1.0	7.4	<10	<2.0	<2.0	<2.0
MW-6	08/05/2010	350.29	14.12	336.17	53	<50 a	<0.50	<1.0	<1.0	<1.0	4	<10	<2.0	<2.0	<2.0
MW-6	11/08/2010	350.29	14.12	336.17	<50	<50 a	<0.50	<1.0	<1.0	<1.0	7.8	<10	<2.0	<2.0	<2.0
MW-6	02/03/2011	350.29	14.05	336.24	<50	<47 a	<0.50	<0.50	<0.50	<1.0	18	<10	<1.0	<1.0	<1.0

Abbreviations:

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

DTW = Depth to water, in feet relative, to msl

GWE = Groundwater elevation, in feet relative, to msl

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

TEPH = Total petroleum hydrocarbons as diesel, analyzed by EPA 8015

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

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

µg/L = Micrograms per liter

--- = Not applicable

Notes:

a = The sample extract was subjected to Silica Gel treatment prior to analysis

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

Site surveyed March 19, 2010 by Mid Coast Engineers, California

APPENDIX A

BLAINE TECH SERVICES, INC. -
FIELD NOTES

WELL GAUGING DATA

Project # 110203 PH1 Date 2/3/11 Client Shell

Site 4895 Hacienda Dr, Dublin

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	1254	4					13.04	30.20	↓	
MW-2	1258	4				14.45	29.96			
MW-3	1245	4				14.08	25.06			
MW-4	1302	4				14.24	27.33			
MW-5	1307	4				14.28	29.55			
MW-6	1250	4				14.05	25.27			

SHELL WELL MONITORING DATA SHEET

BTS #: 110203-P11	Site: 97795893
Sampler: PA	Date: 2/3/11
Well I.D.: MW-3	Well Diameter: 2 3 ④ 6 8
Total Well Depth (TD): 25.06	Depth to Water (DTW): 14.08
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]: 16.27	

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

7.1 (Gals.) X 3 = 21.4 Gals. I Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1342	65.6	7.3	2962	268	7.5	
1343	65.3	7.2	3142	591	14.5	
1345	65.4	7.2	3227	527	21.5	

Did well dewater? Yes <input checked="" type="radio"/> NO	Gallons actually evacuated: 21.5	
Sampling Date: 2/3/11	Sampling Time: 1350	Depth to Water: 15.42
Sample I.D.: MW-3	Laboratory: Test America	Other: _____
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5)	Other: _____	
EB I.D. (if applicable): @ _____ Time	Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5)	Other: _____	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L	
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV	

SHELL WELL MONITORING DATA SHEET

BTS #: <u>110203-PH1</u>	Site: <u>97795893</u>
Sampler: <u>PA</u>	Date: <u>2/3/11</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth (TD): <u>29.55</u>	Depth to Water (DTW): <u>14.28</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>VVO</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>17.33</u>	

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

$\underline{9.9} \text{ (Gals.)} \times \underline{3} = \underline{29.7} \text{ Gals.}$ I Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1451	66.0	7.5	1860	649	10	
1453	67.0	7.5	1853	>1000	20	
1455	67.6	7.4	1833	>1000	30	

Did well dewater? Yes No Gallons actually evacuated: 30

Sampling Date: 2/3/11 Sampling Time: 1500 Depth to Water: 14.71

Sample I.D.: MW-5 Laboratory: Test America Other _____

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

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

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

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

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 -
Shell
165112
Sampled: 02/03/11
Received: 02/07/11
Issued: 02/22/11 15:45

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

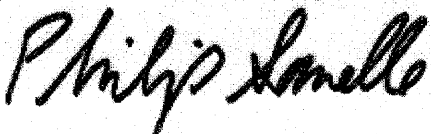
The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. 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
IUB0653-01	MW-1	Water
IUB0653-02	MW-2	Water
IUB0653-03	MW-3	Water
IUB0653-04	MW-4	Water
IUB0653-05	MW-5	Water
IUB0653-06	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 - Shell
 165112
 Report Number: IUB0653

Sampled: 02/03/11
 Received: 02/07/11

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: IUB0653-01 (MW-1 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11B1310	47	ND	0.943	2/10/2011	2/10/2011	
<i>Surrogate: n-Octacosane (45-120%)</i>				81 %				
Sample ID: IUB0653-02 (MW-2 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11B1310	47	ND	0.943	2/10/2011	2/10/2011	
<i>Surrogate: n-Octacosane (45-120%)</i>				84 %				
Sample ID: IUB0653-03 (MW-3 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11B1310	47	ND	0.943	2/10/2011	2/10/2011	
<i>Surrogate: n-Octacosane (45-120%)</i>				80 %				
Sample ID: IUB0653-04 (MW-4 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11B1310	47	ND	0.943	2/10/2011	2/11/2011	
<i>Surrogate: n-Octacosane (45-120%)</i>				77 %				
Sample ID: IUB0653-05 (MW-5 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11B1310	47	ND	0.943	2/10/2011	2/10/2011	
<i>Surrogate: n-Octacosane (45-120%)</i>				66 %				
Sample ID: IUB0653-06 (MW-6 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11B1310	47	ND	0.943	2/10/2011	2/11/2011	
<i>Surrogate: n-Octacosane (45-120%)</i>				69 %				

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165112
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Sampled: 02/03/11
Received: 02/07/11

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: IUB0653-01 (MW-1 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B1645	50	ND	1	2/14/2011	2/14/2011	
Surrogate: Dibromofluoromethane (80-120%)				100 %				
Surrogate: Toluene-d8 (80-120%)				101 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				94 %				
Sample ID: IUB0653-02 (MW-2 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B1645	50	50	1	2/14/2011	2/14/2011	
Surrogate: Dibromofluoromethane (80-120%)				102 %				
Surrogate: Toluene-d8 (80-120%)				104 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				94 %				
Sample ID: IUB0653-03 (MW-3 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B1645	50	ND	1	2/14/2011	2/14/2011	
Surrogate: Dibromofluoromethane (80-120%)				106 %				
Surrogate: Toluene-d8 (80-120%)				100 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				89 %				
Sample ID: IUB0653-04 (MW-4 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B1645	50	ND	1	2/14/2011	2/14/2011	
Surrogate: Dibromofluoromethane (80-120%)				111 %				
Surrogate: Toluene-d8 (80-120%)				102 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				97 %				
Sample ID: IUB0653-05 (MW-5 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B1594	50	79	1	2/13/2011	2/13/2011	QP1
Surrogate: Dibromofluoromethane (80-120%)				106 %				
Surrogate: Toluene-d8 (80-120%)				103 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				95 %				
Sample ID: IUB0653-06 (MW-6 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11B1594	50	ND	1	2/13/2011	2/13/2011	
Surrogate: Dibromofluoromethane (80-120%)				106 %				
Surrogate: Toluene-d8 (80-120%)				102 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				96 %				

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Project ID: 4895 Hacienda Dr., Dublin, CA - Shell
 165112
 Report Number: IUB0653

Sampled: 02/03/11
 Received: 02/07/11

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUB0653-01 (MW-1 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Benzene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Ethylbenzene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Toluene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Xylenes, Total	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
tert-Butanol (TBA)	EPA 8260B	11B1645	10	ND	1	2/14/2011	2/14/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				94 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				100 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				101 %				

Sample ID: IUB0653-02 (MW-2 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Benzene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Ethylbenzene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Toluene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Xylenes, Total	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B1645	1.0	42	1	2/14/2011	2/14/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
tert-Butanol (TBA)	EPA 8260B	11B1645	10	24	1	2/14/2011	2/14/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				94 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				102 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				104 %				

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IUB0653 <Page 4 of 15>

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Project ID: 4895 Hacienda Dr., Dublin, CA - Shell
 165112
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Sampled: 02/03/11
 Received: 02/07/11

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUB0653-03 (MW-3 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Benzene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Ethylbenzene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Toluene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Xylenes, Total	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B1645	1.0	16	1	2/14/2011	2/14/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
tert-Butanol (TBA)	EPA 8260B	11B1645	10	ND	1	2/14/2011	2/14/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								89 %
<i>Surrogate: Dibromofluoromethane (80-120%)</i>								106 %
<i>Surrogate: Toluene-d8 (80-120%)</i>								100 %
Sample ID: IUB0653-04 (MW-4 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Benzene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Ethylbenzene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Toluene	EPA 8260B	11B1645	0.50	ND	1	2/14/2011	2/14/2011	
Xylenes, Total	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B1645	1.0	1.7	1	2/14/2011	2/14/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11B1645	1.0	ND	1	2/14/2011	2/14/2011	
tert-Butanol (TBA)	EPA 8260B	11B1645	10	ND	1	2/14/2011	2/14/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								97 %
<i>Surrogate: Dibromofluoromethane (80-120%)</i>								111 %
<i>Surrogate: Toluene-d8 (80-120%)</i>								102 %

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Sampled: 02/03/11
 Received: 02/07/11

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUB0653-05 (MW-5 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Benzene	EPA 8260B	11B1594	0.50	ND	1	2/13/2011	2/13/2011	
Ethylbenzene	EPA 8260B	11B1594	0.50	ND	1	2/13/2011	2/13/2011	
Toluene	EPA 8260B	11B1594	0.50	ND	1	2/13/2011	2/13/2011	
Xylenes, Total	EPA 8260B	11B1594	1.0	ND	1	2/13/2011	2/13/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11B1594	1.0	ND	1	2/13/2011	2/13/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11B1594	1.0	ND	1	2/13/2011	2/13/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B1594	1.0	140	1	2/13/2011	2/13/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11B1594	1.0	ND	1	2/13/2011	2/13/2011	
tert-Butanol (TBA)	EPA 8260B	11B1594	10	ND	1	2/13/2011	2/13/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								95 %
<i>Surrogate: Dibromofluoromethane (80-120%)</i>								106 %
<i>Surrogate: Toluene-d8 (80-120%)</i>								103 %
Sample ID: IUB0653-06 (MW-6 - Water)				Sampled: 02/03/11				
Reporting Units: ug/l								
Benzene	EPA 8260B	11B1594	0.50	ND	1	2/13/2011	2/13/2011	
Ethylbenzene	EPA 8260B	11B1594	0.50	ND	1	2/13/2011	2/13/2011	
Toluene	EPA 8260B	11B1594	0.50	ND	1	2/13/2011	2/13/2011	
Xylenes, Total	EPA 8260B	11B1594	1.0	ND	1	2/13/2011	2/13/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11B1594	1.0	ND	1	2/13/2011	2/13/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11B1594	1.0	ND	1	2/13/2011	2/13/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11B1594	1.0	18	1	2/13/2011	2/13/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11B1594	1.0	ND	1	2/13/2011	2/13/2011	
tert-Butanol (TBA)	EPA 8260B	11B1594	10	ND	1	2/13/2011	2/13/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								96 %
<i>Surrogate: Dibromofluoromethane (80-120%)</i>								106 %
<i>Surrogate: Toluene-d8 (80-120%)</i>								102 %

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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: 11B1310 Extracted: 02/10/11										
Blank Analyzed: 02/10/2011 (11B1310-BLK1)										
DRO (C10-C28)	ND	50	ug/l							
EFH (C10 - C28)	ND	50	ug/l							
Surrogate: n-Octacosane	169		ug/l	200		85	45-120			
LCS Analyzed: 02/10/2011 (11B1310-BS1)										
EFH (C10 - C28)	711	50	ug/l	1000		71	40-115			MNRI
Surrogate: n-Octacosane	177		ug/l	200		89	45-120			
LCS Dup Analyzed: 02/10/2011 (11B1310-BSD1)										
EFH (C10 - C28)	667	50	ug/l	1000		67	40-115	6	25	
Surrogate: n-Octacosane	167		ug/l	200		83	45-120			

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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B1594 Extracted: 02/13/11										
Blank Analyzed: 02/13/2011 (11B1594-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	25.5		ug/l	25.0		102	80-120			
Surrogate: Toluene-d8	25.7		ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	80-120			
LCS Analyzed: 02/13/2011 (11B1594-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	361	50	ug/l	500		72	55-130			
Surrogate: Dibromofluoromethane	24.9		ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	25.5		ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	24.2		ug/l	25.0		97	80-120			
Matrix Spike Analyzed: 02/13/2011 (11B1594-MS1)										
Volatile Fuel Hydrocarbons (C4-C12)	1040	50	ug/l	1720	ND	60	50-145			
Surrogate: Dibromofluoromethane	24.5		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	25.8		ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	80-120			
Matrix Spike Dup Analyzed: 02/13/2011 (11B1594-MSD1)										
Volatile Fuel Hydrocarbons (C4-C12)	1040	50	ug/l	1720	ND	60	50-145	0.4	20	
Surrogate: Dibromofluoromethane	24.6		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	25.9		ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	80-120			
Batch: 11B1645 Extracted: 02/14/11										
Blank Analyzed: 02/14/2011 (11B1645-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	24.6		ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	26.3		ug/l	25.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	23.6		ug/l	25.0		95	80-120			

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 165112
 Report Number: IUB0653

Sampled: 02/03/11
 Received: 02/07/11

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11B1645 Extracted: 02/14/11										
LCS Analyzed: 02/14/2011 (11B1645-BS2)										
Volatiles Fuel Hydrocarbons (C4-C12)	450	50	ug/l	500		90	55-130			
Surrogate: Dibromofluoromethane	27.4		ug/l	25.0		109	80-120			
Surrogate: Toluene-d8	26.7		ug/l	25.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	24.4		ug/l	25.0		98	80-120			
Matrix Spike Analyzed: 02/14/2011 (11B1645-MS1)										
Source: IUB0653-01										
Volatiles Fuel Hydrocarbons (C4-C12)	1340	50	ug/l	1720	ND	78	50-145			
Surrogate: Dibromofluoromethane	27.0		ug/l	25.0		108	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			
Matrix Spike Dup Analyzed: 02/14/2011 (11B1645-MSD1)										
Source: IUB0653-01										
Volatiles Fuel Hydrocarbons (C4-C12)	1340	50	ug/l	1720	ND	78	50-145	0.09	20	
Surrogate: Dibromofluoromethane	24.6		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	26.6		ug/l	25.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	22.8		ug/l	25.0		91	80-120			

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 165112
 Report Number: IUB0653

Sampled: 02/03/11
 Received: 02/07/11

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B1594 Extracted: 02/13/11										
Blank Analyzed: 02/13/2011 (11B1594-BLK1)										
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/l							
tert-Butanol (TBA)	ND	10	ug/l							
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	80-120			
Surrogate: Dibromofluoromethane	25.5		ug/l	25.0		102	80-120			
Surrogate: Toluene-d8	25.7		ug/l	25.0		103	80-120			
LCS Analyzed: 02/13/2011 (11B1594-BS1)										
Benzene	22.0	0.50	ug/l	25.0		88	70-120			
Ethylbenzene	23.5	0.50	ug/l	25.0		94	75-125			
Toluene	22.8	0.50	ug/l	25.0		91	70-120			
m,p-Xylenes	44.7	1.0	ug/l	50.0		89	75-125			
o-Xylene	23.0	0.50	ug/l	25.0		92	75-125			
Xylenes, Total	67.7	1.0	ug/l	75.0		90	70-125			
Di-isopropyl Ether (DIPE)	21.5	1.0	ug/l	25.0		86	60-135			
Ethyl tert-Butyl Ether (ETBE)	22.9	1.0	ug/l	25.0		92	65-135			
Methyl-tert-butyl Ether (MTBE)	23.4	1.0	ug/l	25.0		94	60-135			
tert-Amyl Methyl Ether (TAME)	24.5	1.0	ug/l	25.0		98	60-135			
tert-Butanol (TBA)	132	10	ug/l	125		106	70-135			
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	80-120			
Surrogate: Dibromofluoromethane	25.0		ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	25.5		ug/l	25.0		102	80-120			

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Philip Sanelle
 Project Manager

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

Project ID: 4895 Hacienda Dr., Dublin, CA - Shell
 165112
 Report Number: IUB0653

Sampled: 02/03/11
 Received: 02/07/11

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B1594 Extracted: 02/13/11										
Matrix Spike Analyzed: 02/13/2011 (11B1594-MS1)					Source: IUB0583-01					
Benzene	22.6	0.50	ug/l	25.0	ND	90	65-125			
Ethylbenzene	24.1	0.50	ug/l	25.0	ND	96	65-130			
Toluene	23.5	0.50	ug/l	25.0	ND	94	70-125			
m,p-Xylenes	45.8	1.0	ug/l	50.0	ND	92	65-130			
o-Xylene	23.4	0.50	ug/l	25.0	ND	94	65-125			
Xylenes, Total	69.3	1.0	ug/l	75.0	ND	92	60-130			
Di-isopropyl Ether (DIPE)	21.1	1.0	ug/l	25.0	ND	85	60-140			
Ethyl tert-Butyl Ether (ETBE)	23.0	1.0	ug/l	25.0	ND	92	60-135			
Methyl-tert-butyl Ether (MTBE)	23.9	1.0	ug/l	25.0	ND	96	55-145			
tert-Amyl Methyl Ether (TAME)	24.6	1.0	ug/l	25.0	0.330	97	60-140			
tert-Butanol (TBA)	133	10	ug/l	125	ND	106	65-140			
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	80-120			
Surrogate: Dibromofluoromethane	24.5		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	25.8		ug/l	25.0		103	80-120			
Matrix Spike Dup Analyzed: 02/13/2011 (11B1594-MSD1)					Source: IUB0583-01					
Benzene	22.5	0.50	ug/l	25.0	ND	90	65-125	0.2	20	
Ethylbenzene	24.2	0.50	ug/l	25.0	ND	97	65-130	0.6	20	
Toluene	23.4	0.50	ug/l	25.0	ND	93	70-125	0.5	20	
m,p-Xylenes	46.4	1.0	ug/l	50.0	ND	93	65-130	1	25	
o-Xylene	23.5	0.50	ug/l	25.0	ND	94	65-125	0.04	20	
Xylenes, Total	69.8	1.0	ug/l	75.0	ND	93	60-130	0.7	20	
Di-isopropyl Ether (DIPE)	21.0	1.0	ug/l	25.0	ND	84	60-140	0.5	25	
Ethyl tert-Butyl Ether (ETBE)	23.1	1.0	ug/l	25.0	ND	92	60-135	0.1	25	
Methyl-tert-butyl Ether (MTBE)	23.4	1.0	ug/l	25.0	ND	94	55-145	2	25	
tert-Amyl Methyl Ether (TAME)	24.6	1.0	ug/l	25.0	0.330	97	60-140	0.3	30	
tert-Butanol (TBA)	138	10	ug/l	125	ND	110	65-140	4	25	
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	80-120			
Surrogate: Dibromofluoromethane	24.6		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	25.9		ug/l	25.0		103	80-120			

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 165112
 Report Number: IUB0653

Sampled: 02/03/11
 Received: 02/07/11

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B1645 Extracted: 02/14/11										
Blank Analyzed: 02/14/2011 (11B1645-BLK1)										
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/l							
tert-Butanol (TBA)	ND	10	ug/l							
Surrogate: 4-Bromofluorobenzene	23.6		ug/l	25.0		95	80-120			
Surrogate: Dibromofluoromethane	24.6		ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	26.3		ug/l	25.0		105	80-120			
LCS Analyzed: 02/14/2011 (11B1645-BS1)										
Benzene	24.1	0.50	ug/l	25.0		97	70-120			
Ethylbenzene	24.9	0.50	ug/l	25.0		100	75-125			
Toluene	25.1	0.50	ug/l	25.0		100	70-120			
m,p-Xylenes	48.2	1.0	ug/l	50.0		96	75-125			
o-Xylene	27.3	0.50	ug/l	25.0		109	75-125			
Xylenes, Total	75.6	1.0	ug/l	75.0		101	70-125			
Di-isopropyl Ether (DIPE)	21.5	1.0	ug/l	25.0		86	60-135			
Ethyl tert-Butyl Ether (ETBE)	24.7	1.0	ug/l	25.0		99	65-135			
Methyl-tert-butyl Ether (MTBE)	26.0	1.0	ug/l	25.0		104	60-135			
tert-Amyl Methyl Ether (TAME)	22.9	1.0	ug/l	25.0		92	60-135			
tert-Butanol (TBA)	146	10	ug/l	125		117	70-135			
Surrogate: 4-Bromofluorobenzene	24.6		ug/l	25.0		98	80-120			
Surrogate: Dibromofluoromethane	27.8		ug/l	25.0		111	80-120			
Surrogate: Toluene-d8	26.2		ug/l	25.0		105	80-120			

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

Project ID: 4895 Hacienda Dr., Dublin, CA - Shell
 165112
 Report Number: IUB0653

Sampled: 02/03/11
 Received: 02/07/11

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B1645 Extracted: 02/14/11										
Matrix Spike Analyzed: 02/14/2011 (11B1645-MS1)					Source: IUB0653-01					
Benzene	24.2	0.50	ug/l	25.0	ND	97	65-125			
Ethylbenzene	25.0	0.50	ug/l	25.0	ND	100	65-130			
Toluene	25.9	0.50	ug/l	25.0	ND	104	70-125			
m,p-Xylenes	47.4	1.0	ug/l	50.0	ND	95	65-130			
o-Xylene	26.6	0.50	ug/l	25.0	ND	106	65-125			
Xylenes, Total	73.9	1.0	ug/l	75.0	ND	99	60-130			
Di-isopropyl Ether (DIPE)	21.4	1.0	ug/l	25.0	ND	86	60-140			
Ethyl tert-Butyl Ether (ETBE)	26.0	1.0	ug/l	25.0	ND	104	60-135			
Methyl-tert-butyl Ether (MTBE)	26.1	1.0	ug/l	25.0	ND	104	55-145			
tert-Amyl Methyl Ether (TAME)	24.4	1.0	ug/l	25.0	ND	98	60-140			
tert-Butanol (TBA)	145	10	ug/l	125	ND	116	65-140			
Surrogate: 4-Bromofluorobenzene	25.7		ug/l	25.0		103	80-120			
Surrogate: Dibromofluoromethane	27.0		ug/l	25.0		108	80-120			
Surrogate: Toluene-d8	26.3		ug/l	25.0		105	80-120			
Matrix Spike Dup Analyzed: 02/14/2011 (11B1645-MSD1)					Source: IUB0653-01					
Benzene	24.3	0.50	ug/l	25.0	ND	97	65-125	0.5	20	
Ethylbenzene	25.2	0.50	ug/l	25.0	ND	101	65-130	0.4	20	
Toluene	26.4	0.50	ug/l	25.0	ND	105	70-125	2	20	
m,p-Xylenes	46.0	1.0	ug/l	50.0	ND	92	65-130	3	25	
o-Xylene	27.3	0.50	ug/l	25.0	ND	109	65-125	3	20	
Xylenes, Total	73.2	1.0	ug/l	75.0	ND	98	60-130	0.9	20	
Di-isopropyl Ether (DIPE)	21.8	1.0	ug/l	25.0	ND	87	60-140	2	25	
Ethyl tert-Butyl Ether (ETBE)	25.6	1.0	ug/l	25.0	ND	102	60-135	2	25	
Methyl-tert-butyl Ether (MTBE)	27.6	1.0	ug/l	25.0	ND	110	55-145	6	25	
tert-Amyl Methyl Ether (TAME)	24.4	1.0	ug/l	25.0	ND	97	60-140	0.4	30	
tert-Butanol (TBA)	166	10	ug/l	125	ND	133	65-140	14	25	
Surrogate: 4-Bromofluorobenzene	22.8		ug/l	25.0		91	80-120			
Surrogate: Dibromofluoromethane	24.6		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	26.6		ug/l	25.0		107	80-120			

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San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4895 Hacienda Dr., Dublin, CA - Shell
165112
Report Number: IUB0653

Sampled: 02/03/11
Received: 02/07/11

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.
- QPI** Hydrocarbon result partly due to individual peak(s) in quantitation range.
- 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.

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Project Manager

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165112
Report Number: IUB0653

Sampled: 02/03/11
Received: 02/07/11

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

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