



**CONESTOGA-ROVERS
& ASSOCIATES**

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TRANSMITTAL

DATE: May 24, 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
 4:23 pm, May 24, 2012
 Alameda County
 Environmental Health

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 Prints
 Sent via: Mail Same Day Courier
 Overnight Courier Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Subsurface Investigation Report

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
 R. Jackson Pope, Regal Cinemas, Inc. (adjacent property owner), 7231 Mike Campbell Drive, Knoxville, TN 37918
 Thomas P. Sullivan, Brown and Sullivan, LLP (adjacent property owner's representative), 1051 Pacific Marina, Suite 101, Alameda, CA 94501

Completed by: Peter Schaefer Signed: *Peter Schaefer*

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



SUBSURFACE INVESTIGATION REPORT

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

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

MAY 24, 2012
REF. NO. 240695 (7)
This report is printed on recycled paper.

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

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web: <http://www.CRAworld.com>

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EXECUTIVE SUMMARY

- Four CPT borings were advanced during this investigation to evaluate groundwater conditions on site and down gradient from the site.
- Grab groundwater samples were collected at various depths from borings CPT-1 and CPT-4.
- Groundwater analytical data indicate TPHd (up to 110 µg/L), TPHg (up to 310 µg/L), and MTBE (up to 410 µg/L) were present in grab groundwater samples collected from some of the borings. No other COCs were detected.
- The TPHd detections in grab groundwater samples from CPT-1 and the TPHg and MTBE detections in shallow samples from CPT-4 equal or exceed the RWQCB ESLs for groundwater where groundwater is a potential drinking water source.
- The findings of this investigation indicate that groundwater impacted with MTBE is limited to shallow groundwater on site and down gradient from the site. Grab groundwater data from this investigation adequately define the vertical extent of COCs, and COCs are adequately defined horizontally in all directions except south of the site near boring CPT-4. MTBE concentrations in samples from CPT-4 at 20.5 to 24.5 fbg and 31 to 34 fbg indicate that further investigation is needed to delineate the extent of the MTBE plume down gradient.
- CRA recommends drilling two additional down-gradient CPT borings and two additional cross-gradient CPT borings to further assess the extent of the MTBE plume.

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent investigation activities at the referenced site. The purpose of the investigation was to investigate groundwater on site and down gradient from the site. CRA followed the scope of work and procedures presented in our May 27, 2011 *Revised Subsurface Investigation Work Plan*, which was approved by Alameda County Environmental Health (ACEH) in their June 20, 2011 letter. ACEH's December 12, 2011 and March 12, 2012 electronic correspondence extended the due date for this report to May 24, 2012.

The subject site is an active Shell-branded Service Station located on the northeastern corner of Hacienda Drive and Martinelli Way in a primarily commercial area of Dublin, California (Figure 1). The site layout includes a fuel underground storage tank complex, four dispensers, a car wash, and a station building (Figure 2).

A summary of previous work performed at the site and additional background information is presented in CRA's May 27, 2011 revised work plan and is not repeated herein.

2.0 INVESTIGATION ACTIVITIES

2.1 PERMIT

CRA obtained a drilling permit from Zone 7 Water Agency (Appendix A).

2.2 DRILLING DATES

March 13 through 16, 2012.

2.3 DRILLING COMPANY

Gregg Drilling & Testing, Inc. (Gregg)

2.4 CRA PERSONNEL

Staff scientist Scott Lewis directed the drilling activities under the supervision of California Professional Geologist Peter Schaefer.

2.5 DRILLING METHOD

Cone penetration test (CPT).

2.6 NUMBER OF BORINGS

Gregg advanced four CPT borings (CPT-1 through CPT-4) during this investigation. Due to interference with underground utilities, a CPT boring proposed on the northwest corner of the 4775 Hacienda Drive, Dublin property could not be drilled and CPT boring CPT-4 had to be relocated approximately 150 feet to the southwest.

The boring specifications and soil types encountered are described on the CPT logs contained in Appendix B. The boring locations are shown on Figure 2.

2.7 BORING DEPTHS

60.0 to 60.2 feet below grade (fbg).

2.8 GROUNDWATER DEPTHS

Based on pore pressure dissipation tests, first-encountered groundwater ranges from approximately 20 to 23 fbg.

2.9 WASTE DISPOSAL

Sludge was generated during field activities, stored in 55-gallon drums on site, sampled, and profiled for disposal. The laboratory analytical report is presented in Appendix C. Waste disposal confirmation documentation is pending and will be provided by CRA upon request.

3.0 FINDINGS

3.1 GRAB GROUNDWATER

CRA summarizes the grab groundwater chemical analytical data in Table 1, presents total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg), benzene, and methyl tertiary-butyl ether (MTBE) analytical results on Figure 2, and includes the laboratory analytical reports in Appendix C.

4.0 DISCUSSION

The purpose of the investigation was to investigate groundwater on site and down gradient from the site. Two CPT borings were advanced on site, two CPT borings were drilled off site down gradient from the site, and CRA collected grab groundwater samples at various depths from borings CPT-1 and CPT-4.

Grab groundwater analytical data indicate TPHd, TPHg, and MTBE were present in grab groundwater samples collected from some of the borings. No other constituents of concern (COCs) were detected. Up to 110 micrograms per liter ($\mu\text{g}/\text{L}$) TPHd were detected in all grab groundwater samples collected during this investigation, with the exception of the sample from boring CPT-4 at 20.5 to 24.5 fbg. TPHg and MTBE were only detected in the shallow grab groundwater samples from boring CPT-4 at up to 310 and 410 $\mu\text{g}/\text{L}$, respectively.

The TPHd detections in grab groundwater samples from CPT-1 and the TPHg and MTBE detections in shallow grab groundwater samples from CPT-4 equal or exceed the San Francisco Bay Regional Water Quality Control Board environmental screening levels (ESLs) for groundwater where groundwater is a current or potential drinking water source.¹ It should be noted that the ESL document states that "TPH ESLs must be used in conjunction with ESLs for related chemicals," in this case benzene, toluene, ethylbenzene, and total xylenes (BTEX), fuel oxygenates, and lead scavengers. Of these, only MTBE concentrations in grab groundwater samples from CPT-4 at 20.5 to 24.5 fbg and 31 to 34 fbg equal or exceed the ESLs.

¹ *Screening for Environmental Concerns at Site With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]*

5.0 CONCLUSIONS

The findings of this investigation indicate that groundwater impacted with MTBE is limited to shallow groundwater on site and down gradient from the site. Grab groundwater data from CPT-1 and CPT-2 adequately define the on-site vertical extent of TPHg, BTEX, fuel oxygenates, and lead scavengers to below ESLs. Grab groundwater data from CPT-3 adequately define the extent of all COCs down gradient from the site to the southeast to below ESLs. Grab groundwater data from CPT-4 adequately define the vertical extent of all COCs to below ESLs down gradient from the site to the south. MTBE concentrations in samples from CPT-4 at 20.5 to 24.5 fbg and 31 to 34 fbg indicate that further investigation is needed to delineate the extent of the MTBE plume down gradient.

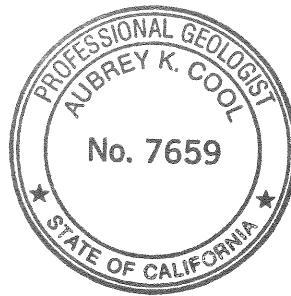
6.0 RECOMMENDATIONS

CRA recommends drilling and sampling two additional CPT borings down gradient from CPT-4 and drilling and sampling two additional CPT borings in cross gradient locations to further assess the extent of the MTBE plume. The locations of these proposed borings are shown on Figure 3, and CRA recommends following the CPT boring protocol used for CPT-4 as detailed in our May 27, 2011 *Revised Subsurface Investigation Work Plan* in lieu of submitting an additional work plan.

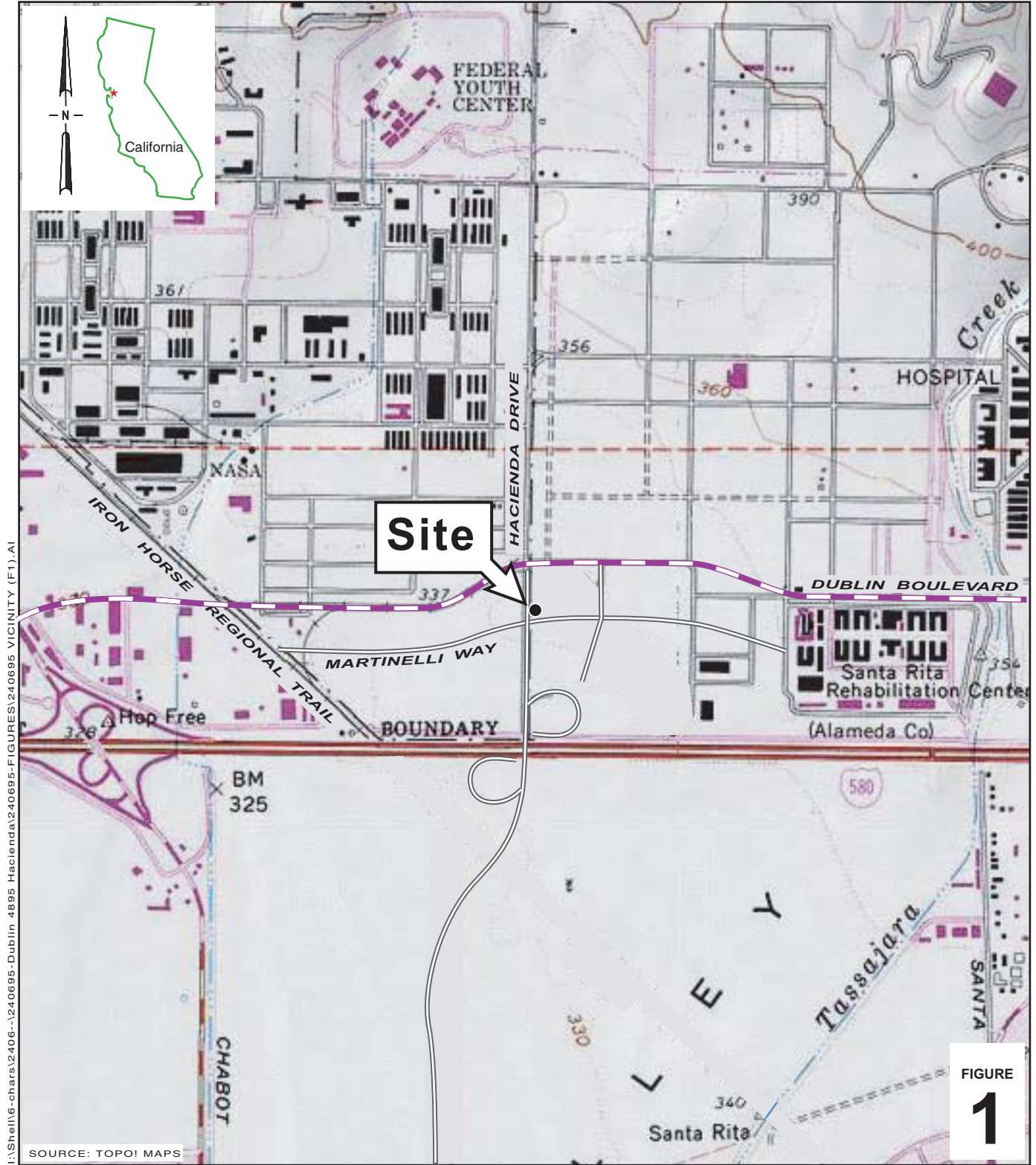
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer
Peter Schaefer, CEG, CHG

Aubrey K. Cool
Aubrey K. Cool, PG



FIGURES



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

SOURCE: TOPOI MAPS



SCALE : 1" = 1/4 MILE

FIGURE
1

Shell-branded Service Station




4895 Hacienda Drive
Dublin, California











**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map

EXPLANATION

- CPT-1**  CPT location (CRA, 2012)
- MW-1**  Monitoring well location
- B-1**  Soil boring location (Delta, 2008)

-  Electrical line (E)
-  Telecommunication line (T)
-  Gas line (G)
-  Storm drain line (STM)
-  Sanitary sewer line (SAN)
-  Water line (W)
-  Catch basin
-  Fire hydrant

Sample ID	Sample Date	Sample Depth	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	MTBE (µg/L)
CPT-1	03/14/2012	45-49	100	<50	<0.50	<0.50
CPT-1	03/14/2012	56-59	110	<50	<0.50	<0.50

Notes:
 Grab groundwater sample ID, date, depth in feet below grade, and concentrations in micrograms per liter (µg/L)
TPHd = Total petroleum hydrocarbons as diesel
TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tertiary-butyl ether
<X = Not detected at reporting limit X
 Results in **bold** equal or exceed ESLs

Sample ID	Sample Date	Sample Depth	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	MTBE (µg/L)
CPT-1	03/14/2012	45-49	100	<50	<0.50	<0.50
CPT-1	03/14/2012	56-59	110	<50	<0.50	<0.50

Sample ID	Sample Date	Sample Depth	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	MTBE (µg/L)
CPT-2	03/15/2012	56-60	86	<50	<0.50	<0.50

Sample ID	Sample Date	Sample Depth	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	MTBE (µg/L)
CPT-3	03/15/2012	29-32	53	<50	<0.50	<0.50

Sample ID	Sample Date	Sample Depth	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	MTBE (µg/L)
CPT-4	03/16/2012	20.5-24.5	<47	310	<2.5	410
CPT-4	03/16/2012	31-34	53	180	<1.3	240
CPT-4	03/16/2012	54.57	88	<50	<0.50	<0.50

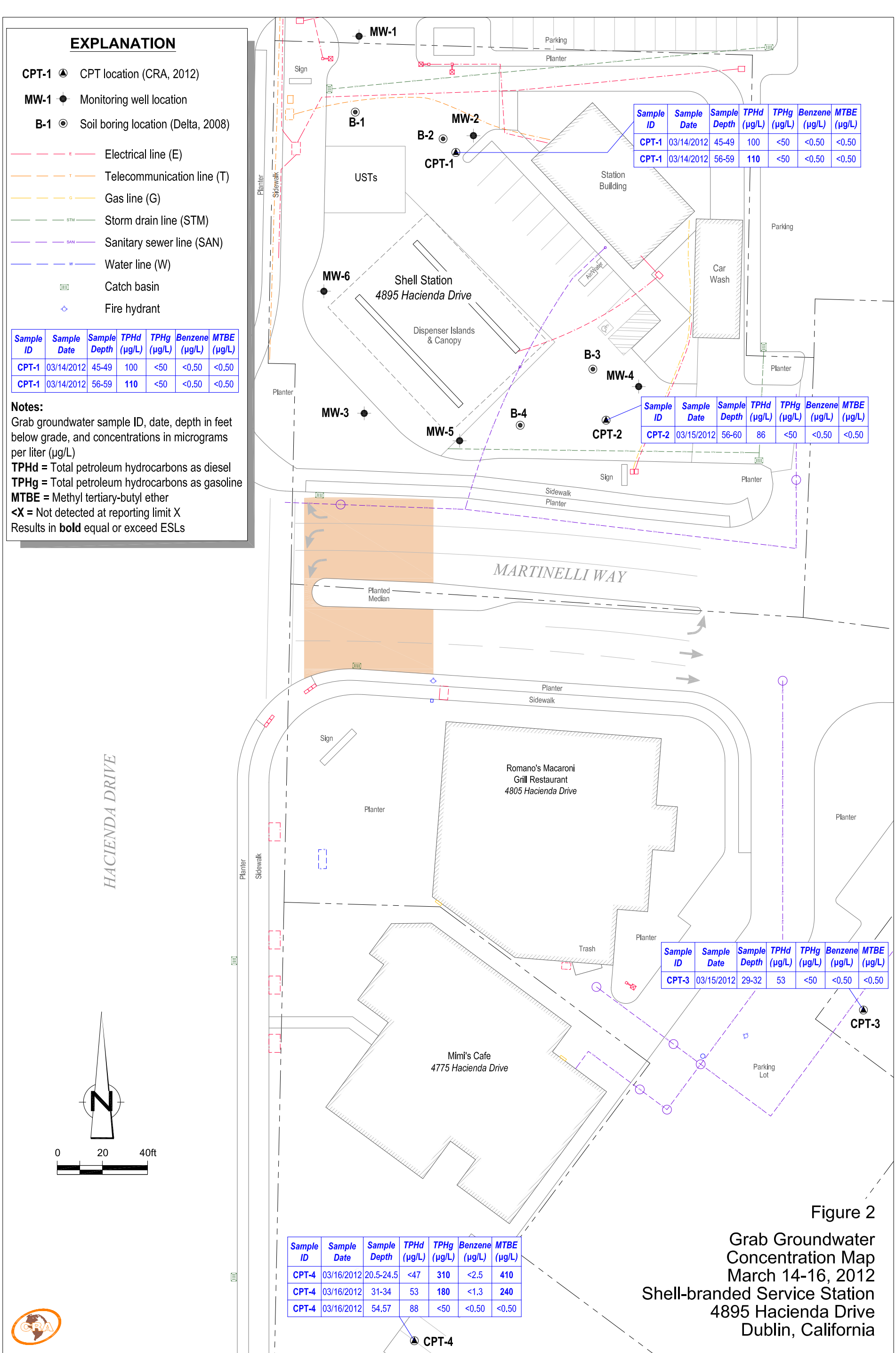














Figure 2
 Grab Groundwater Concentration Map
 March 14-16, 2012
 Shell-branded Service Station
 4895 Hacienda Drive
 Dublin, California



EXPLANATION

- CPT-5**  Proposed CPT location
- CPT-1**  CPT location (CRA, 2012)
- MW-1**  Monitoring well location
- B-1**  Soil boring location (Delta, 2008)
-  Electrical line (E)
-  Telecommunication line (T)
-  Gas line (G)
-  Storm drain line (STM)
-  Sanitary sewer line (SAN)
-  Water line (W)
-  Catch basin
-  Fire hydrant

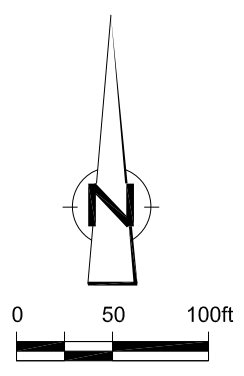
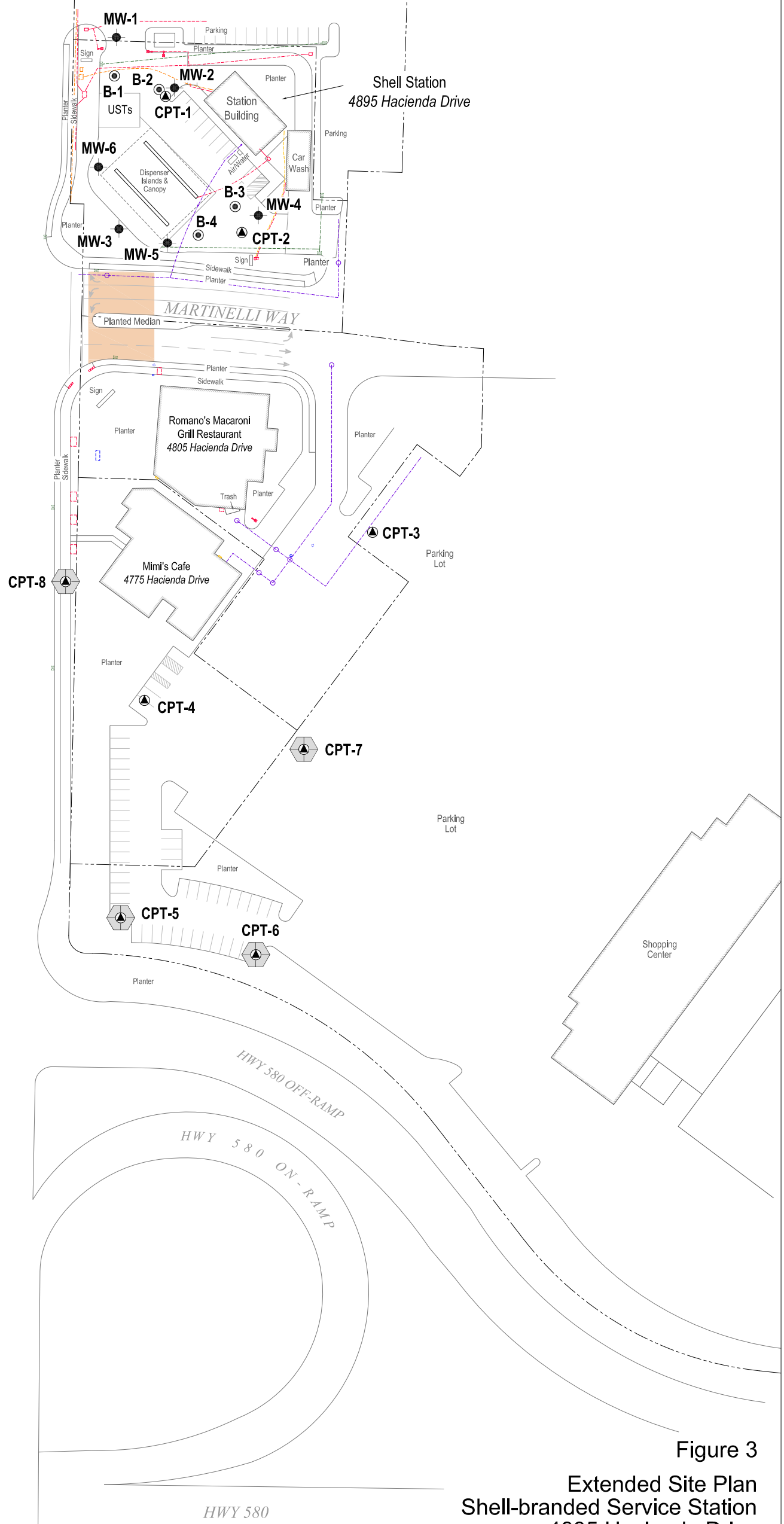


Figure 3
 Extended Site Plan
 Shell-branded Service Station
 4895 Hacienda Drive
 Dublin, California



TABLE

TABLE 1

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

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHd (µg/L)</i>	<i>TPHg (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>	<i>EDB (µg/L)</i>	<i>1,2-DCA (µg/L)</i>	<i>Ethanol (µg/L)</i>
B-1	8/20/2008	20	---	<50	<0.50	<1.0	<1.0	<2.0	2.3	<10	<2.0	<2.0	<2.0	<1.0	<0.50	<100
B-2	8/20/2008	20	---	320	<2.5	<5.0	<5.0	<10	370	<50	<10	<10	<10	<5.0	<2.5	<500
MW-5	2/17/2010	42	55	<50	<0.50	<1.0	<1.0	<1.0	1.2	<10	<2.0	<2.0	<2.0	<1.0	<0.50	<100
CPT-1	3/14/2012	45-49	100	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	---
CPT-1	3/14/2012	56-59	110	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	---
CPT-2	3/15/2012	56-60	86	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	---
CPT-3	3/15/2012	29-32	53	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	---
CPT-4	3/16/2012	20.5-24.5	<47	310	<2.5	<2.5	<2.5	<5.0	410	<50	<2.5	<2.5	<2.5	<2.5	<2.5	---
CPT-4	3/16/2012	31-34	53	180	<1.3	<1.3	<1.3	<2.5	240	<25	<1.3	<1.3	<1.3	<1.3	<1.3	---
CPT-4	3/16/2012	54-57	88	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	---
<i>Groundwater ESL^a:</i>			100	100	1.0	40	30	20	5.0	12	NA	NA	NA	0.050	0.50	NA

Notes:

TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015M

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

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

EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B

Ethanol analyzed by EPA Method 8260B

fbg = Feet below grade

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE, DUBLIN, CALIFORNIA

µg/L = Micrograms per liter

<x = Not detected at reporting limit x

--- = Not analyzed

ESL = Environmental screening level

Results in **bold** equal or exceed applicable ESL

a = San Francisco Bay Regional Water Quality Control Board ESL for groundwater where groundwater is a potential source of drinking water (Tables A and C of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

APPENDIX A

PERMIT



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Shell-branded Service Station
4895 Hacienda Drive

Dublin, CA

Coordinates Source _____ ft. Accuracy V _____ ft.
LAT: _____ ft. LONG: _____ ft.
APN 986-8-13

CLIENT
Name Shell Oil Products US
Address 22945 South Hillway Phone 707-865-0251
City Carson, CA Zip 90810

APPLICANT
Name Corcoran-Rovers & Associates
Email slouis@crworld.com Fax 707-935-6649
Address 17449 Riverside Drive, Suite 230 Phone 707-933-2369
City Sanoma, CA Zip 95976

TYPE OF PROJECT:
Well Construction Geotechnical Investigation
Well Destruction Contamination Investigation
Cathodic Protection Other _____

PROPOSED WELL USE:
Domestic Irrigation
Municipal Remediation
Industrial Groundwater Monitoring
Dewatering Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Hollow Stem Auger
Cable Tool Direct Push Other CPT

DRILLING COMPANY Force Drilling
950 Howe Road, Martinez, CA 94553
DRILLER'S LICENSE NO. 425145

WELL SPECIFICATIONS:
Drill Hole Diameter _____ in. Maximum
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

SOIL BORINGS:
Number of Borings 5 Maximum
Hole Diameter 2 in. Depth ~60 ft.

ESTIMATED STARTING DATE 1/23/12
ESTIMATED COMPLETION DATE 1/30/12

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Scott Lewis Date 12-23-11

ATTACH SITE PLAN OR SKETCH

PERMIT NUMBER 2011140
WELL NUMBER _____
APN 986-0008-013-00

PERMIT CONDITIONS (Circled Permit Requirements Apply)

- A. GENERAL
 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.
 3. Permit is void if project not begun within 90 days of approval date.
 4. Notify Zone 7 at least 24 hours before the start of work.
- B. WATER SUPPLY WELLS
 1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.
- D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION. See attached.
- G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

Approved Wyman Hong Date 12/30/11
Wyman Hong

APPENDIX B

GREGG DRILLING & TESTING, INC. - CPT SITE INVESTIGATION



GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

March 19, 2012

Conestoga-Rovers & Associates
Attn: Scott Lewis

Subject: CPT Site Investigation
Shell-branded Service Station, 4895 Hacienda
Dublin, California
GREGG Project Number: 12-035MA

Dear Mr. Lewis:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	<input checked="" type="checkbox"/>
2	Pore Pressure Dissipation Tests	(PPD)	<input checked="" type="checkbox"/>
3	Seismic Cone Penetration Tests	(SCPTU)	<input type="checkbox"/>
4	UVOST Laser Induced Fluorescence	(UVOST)	<input type="checkbox"/>
5	Groundwater Sampling	(GWS)	<input checked="" type="checkbox"/>
6	Soil Sampling	(SS)	<input checked="" type="checkbox"/>
7	Vapor Sampling	(VS)	<input type="checkbox"/>
8	Pressuremeter Testing	(PMT)	<input type="checkbox"/>
9	Vane Shear Testing	(VST)	<input type="checkbox"/>
10	Dilatometer Testing	(DMT)	<input type="checkbox"/>

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager



Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice"
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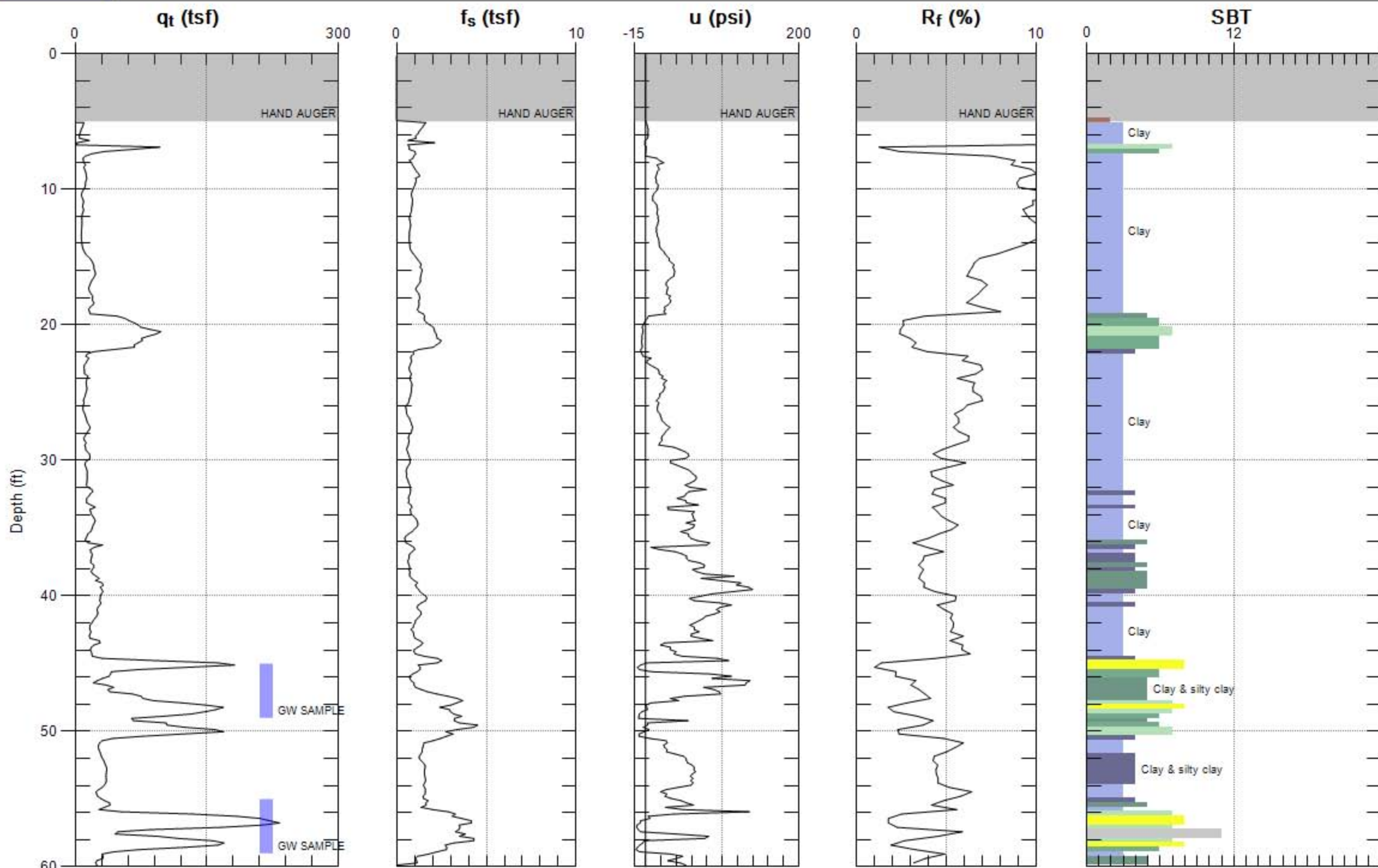
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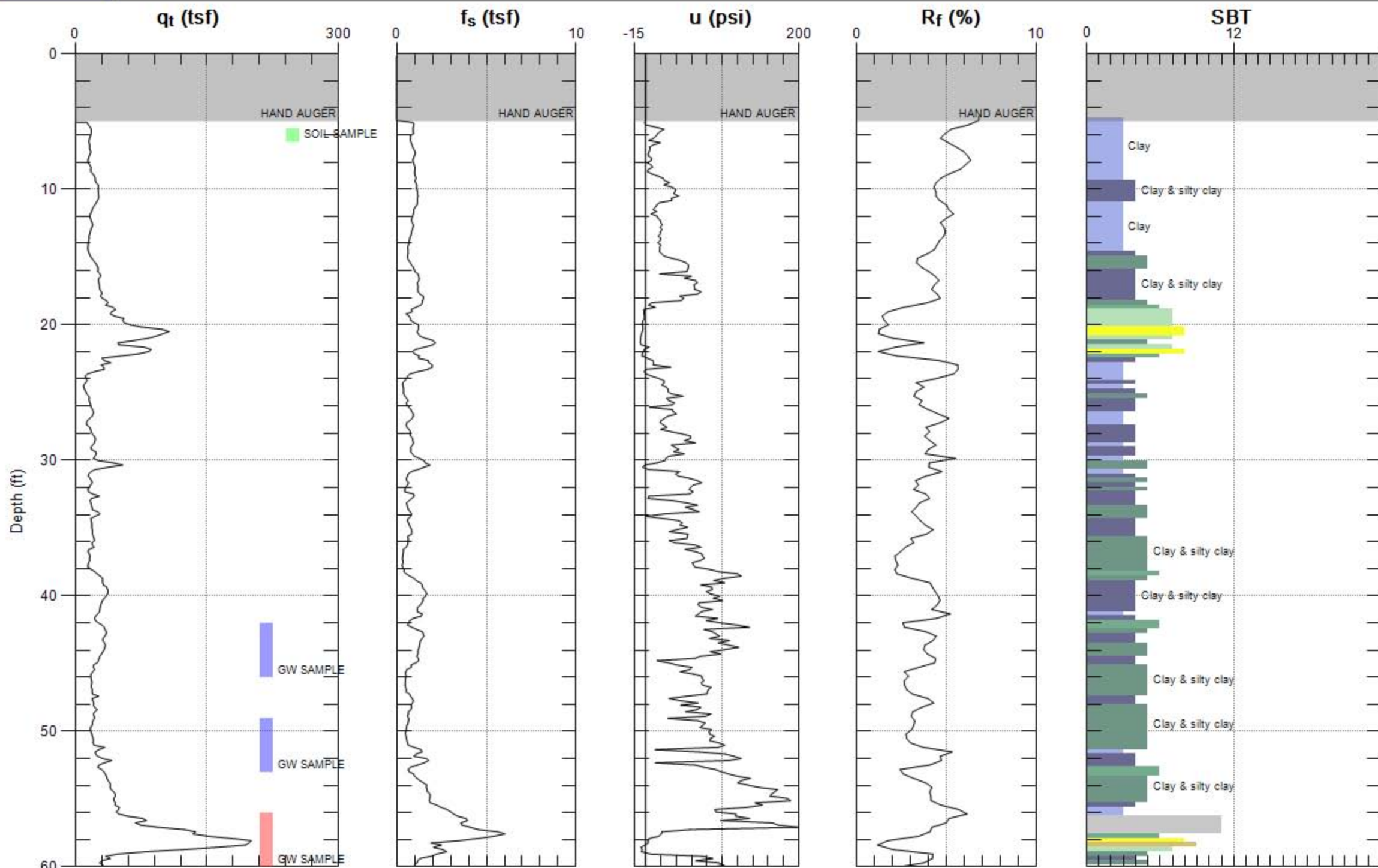
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Copies of ASTM Standards are available through www.astm.org



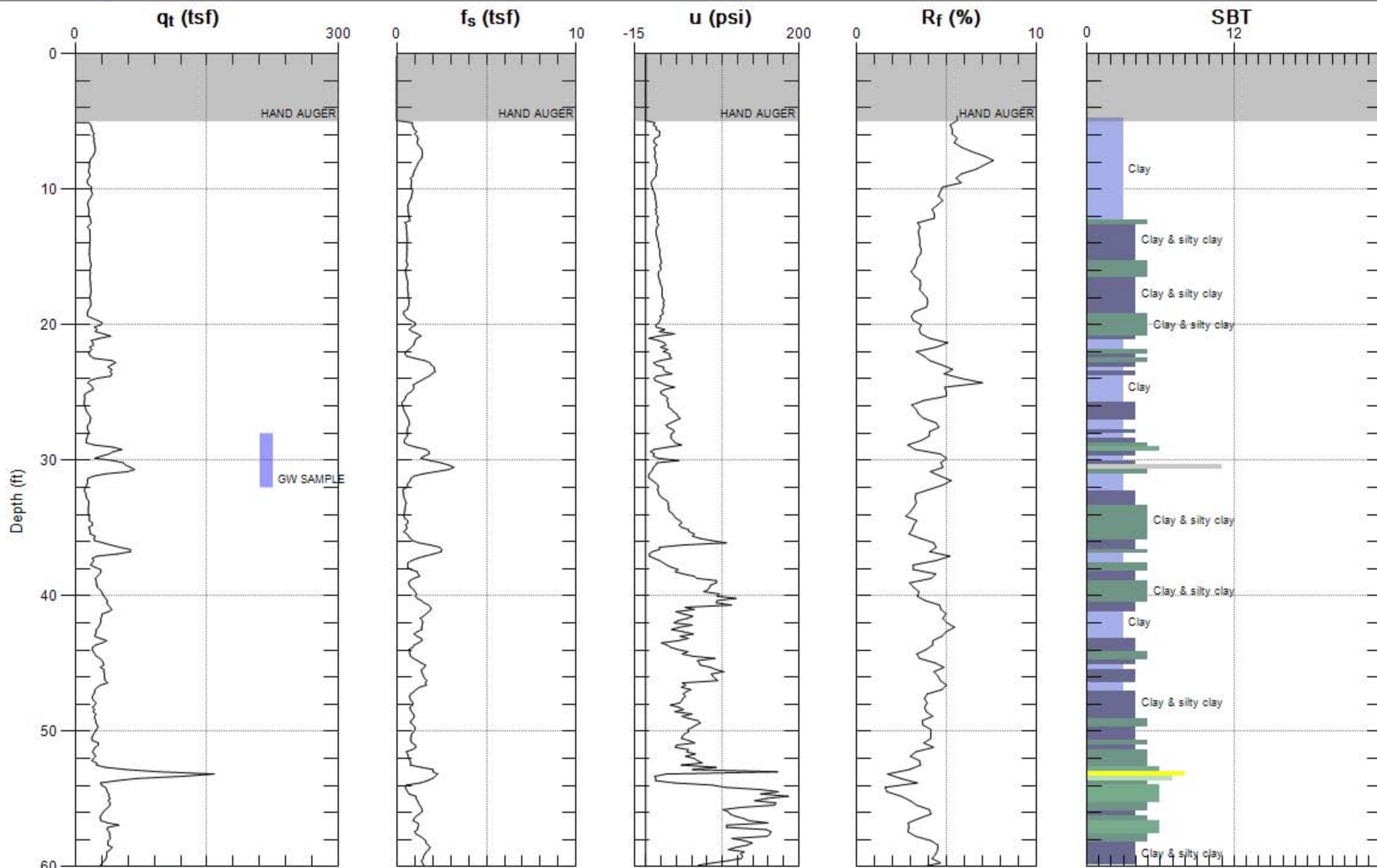
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Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



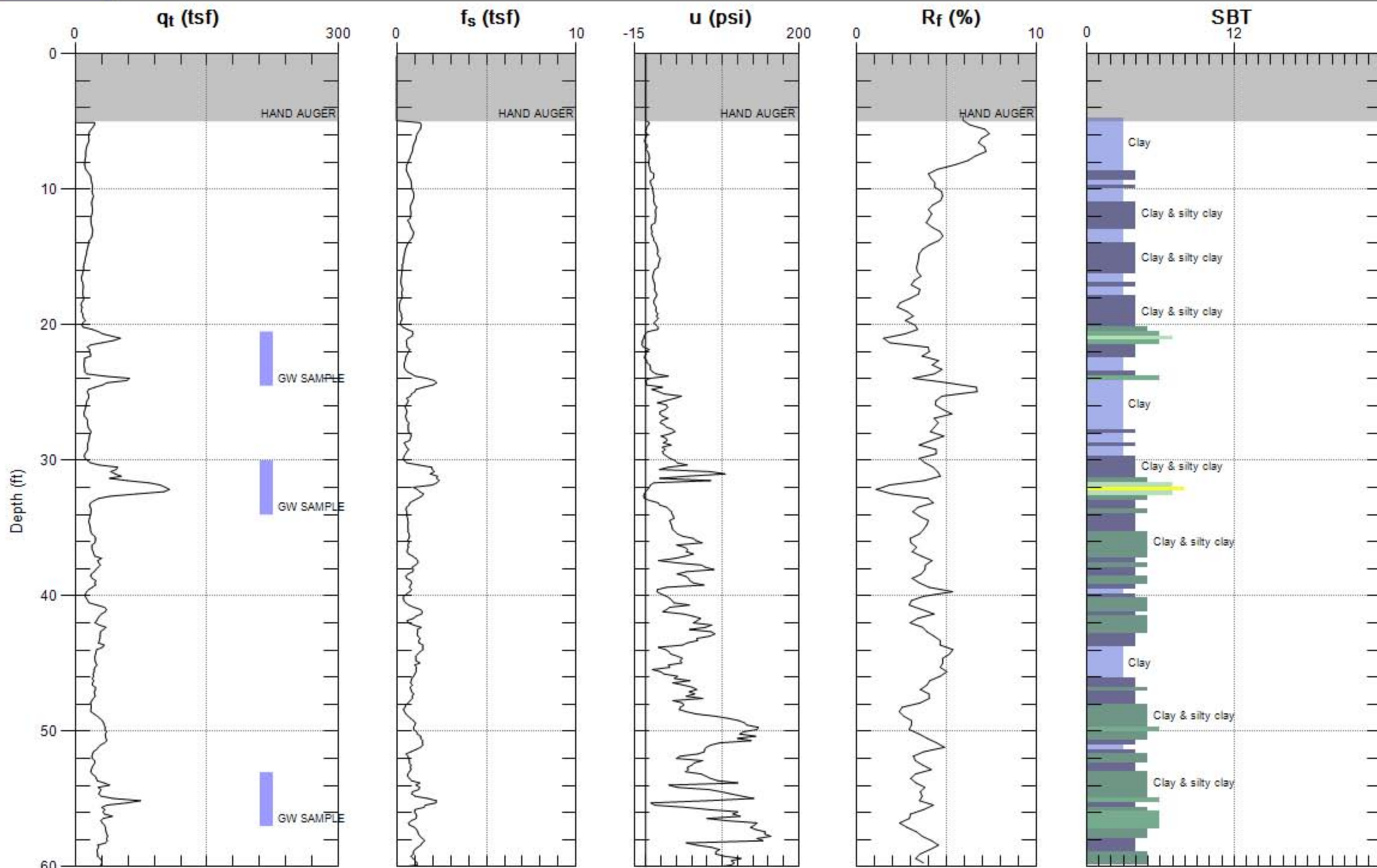
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Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 60.203 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 60.039 (ft)
Avg. Interval: 0.328 (ft)

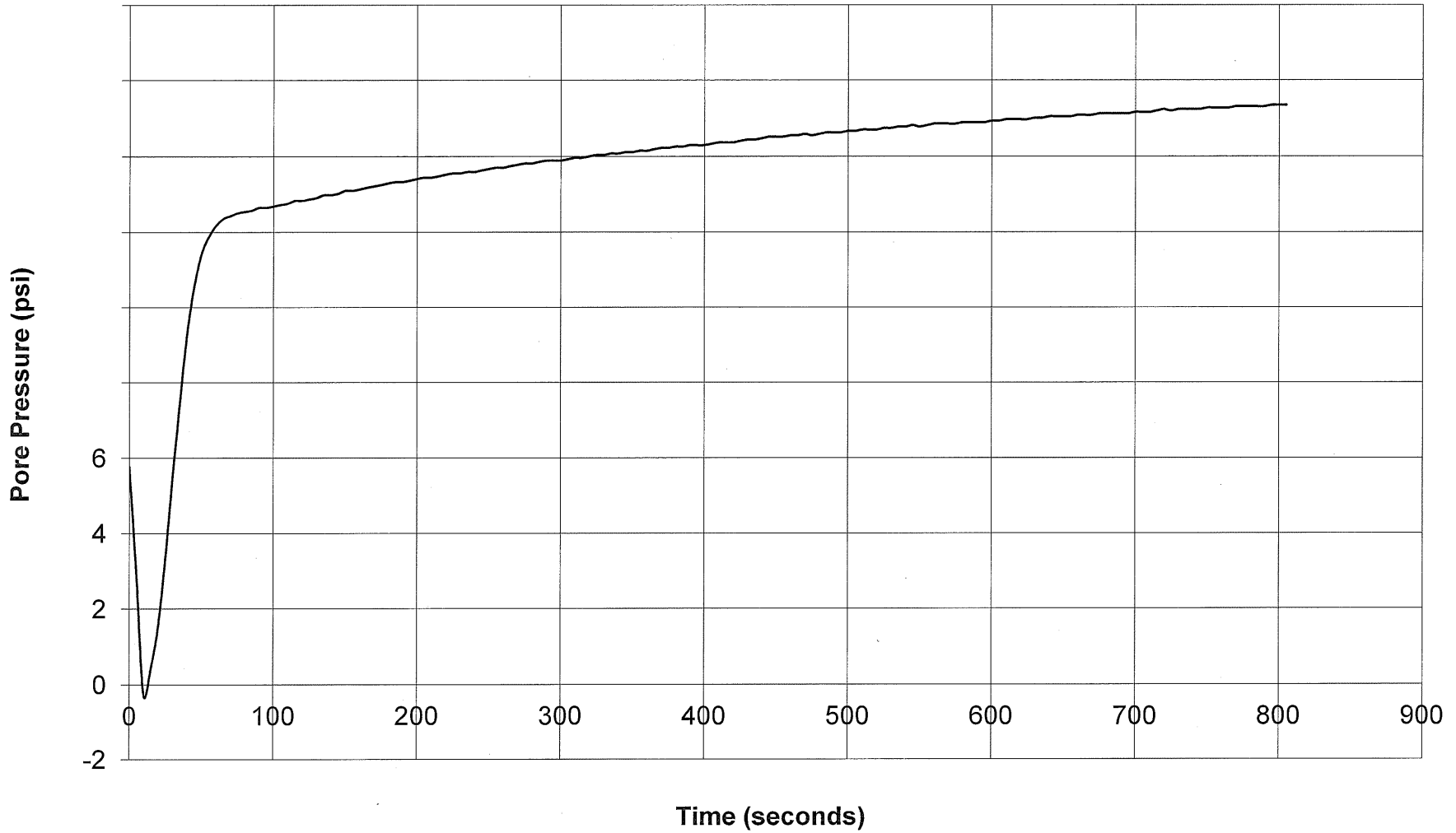
SBT: Soil Behavior Type (Robertson 1990)

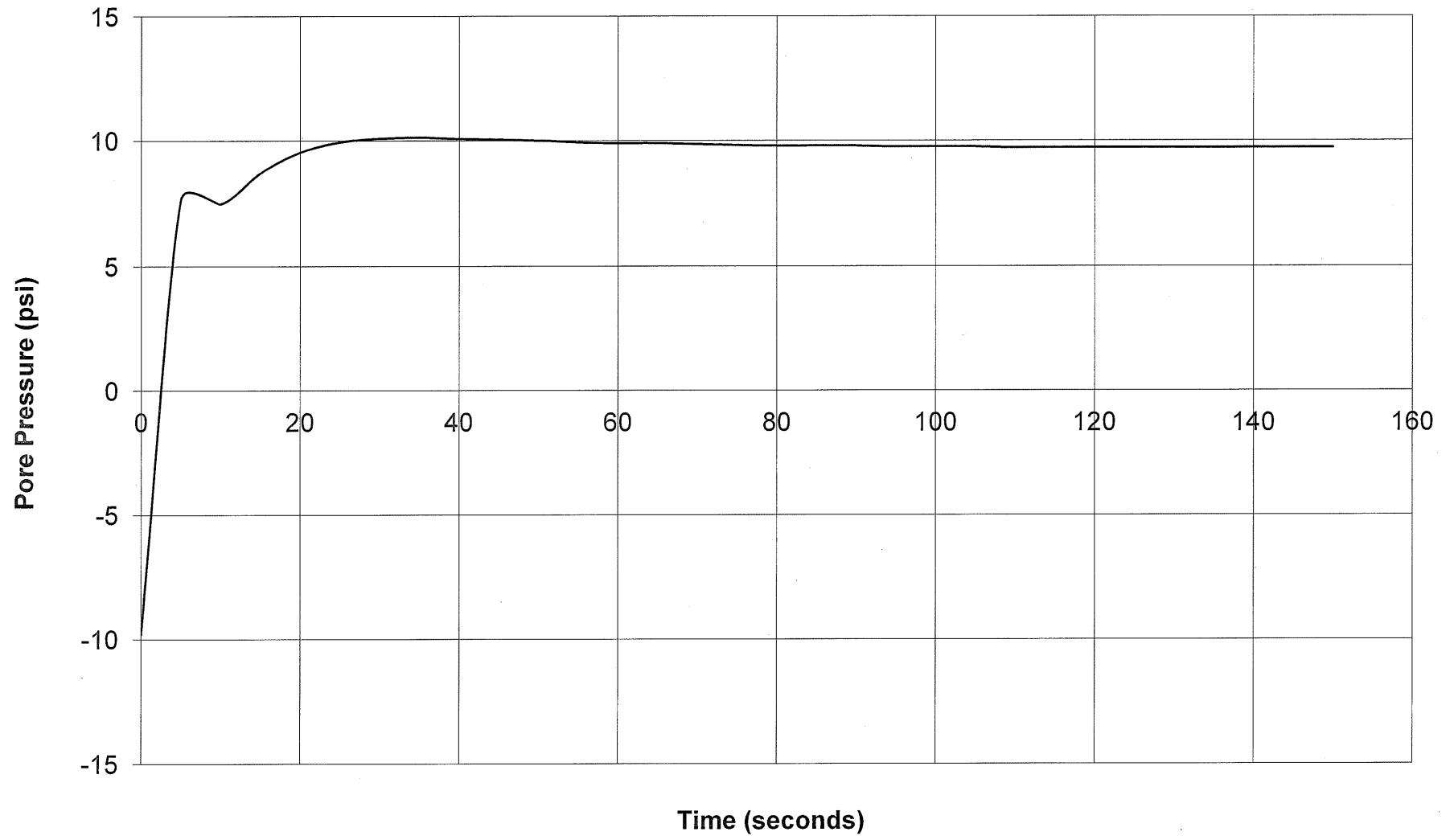


GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: CPT-02
Depth: 58.398774
Site: 4895 HACIENDA
Engineer: S.LEWIS



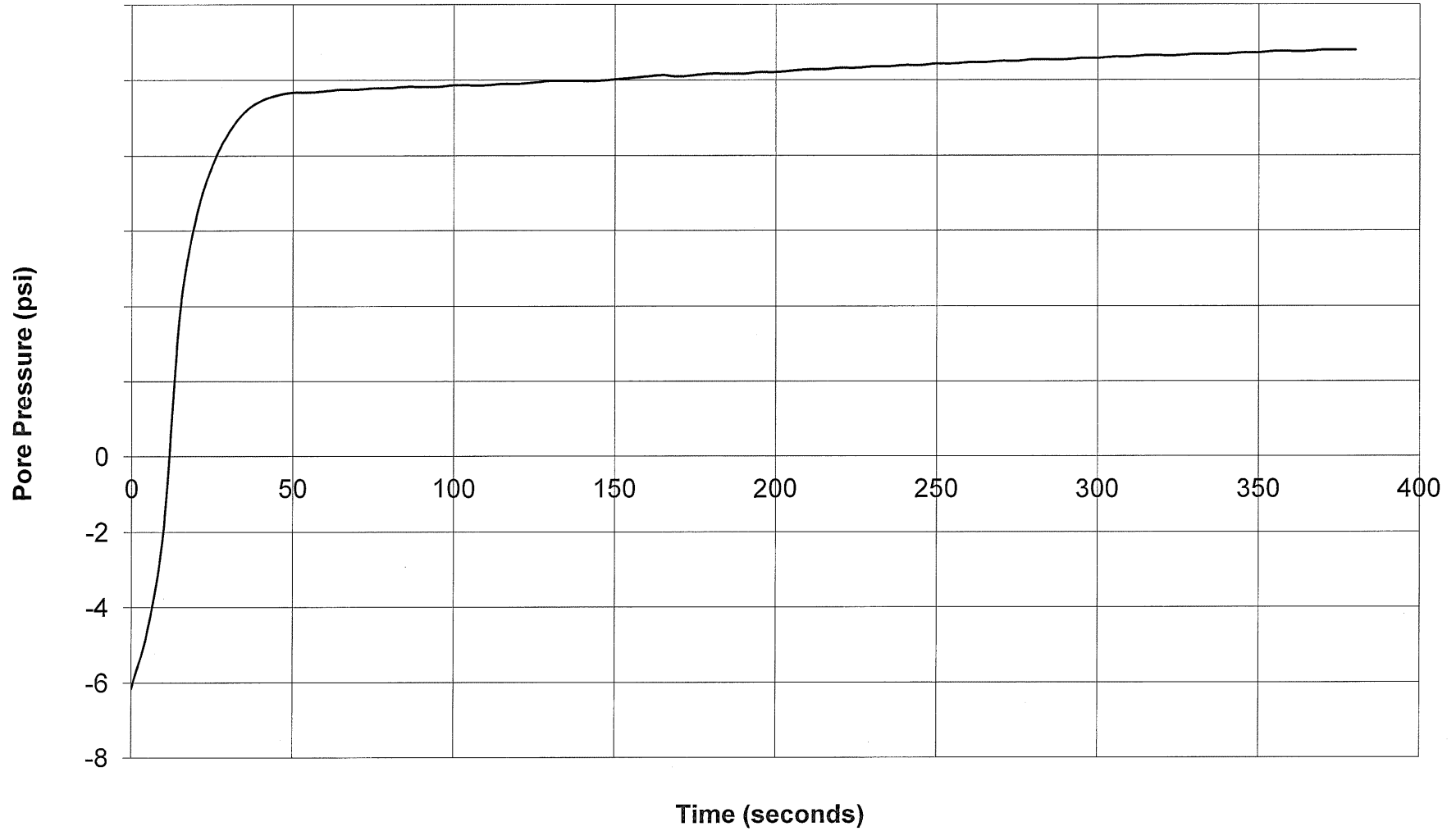




GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: CPT-01
Depth: 48.3922425
Site: 4895 HACIENDA
Engineer: S.LEWIS

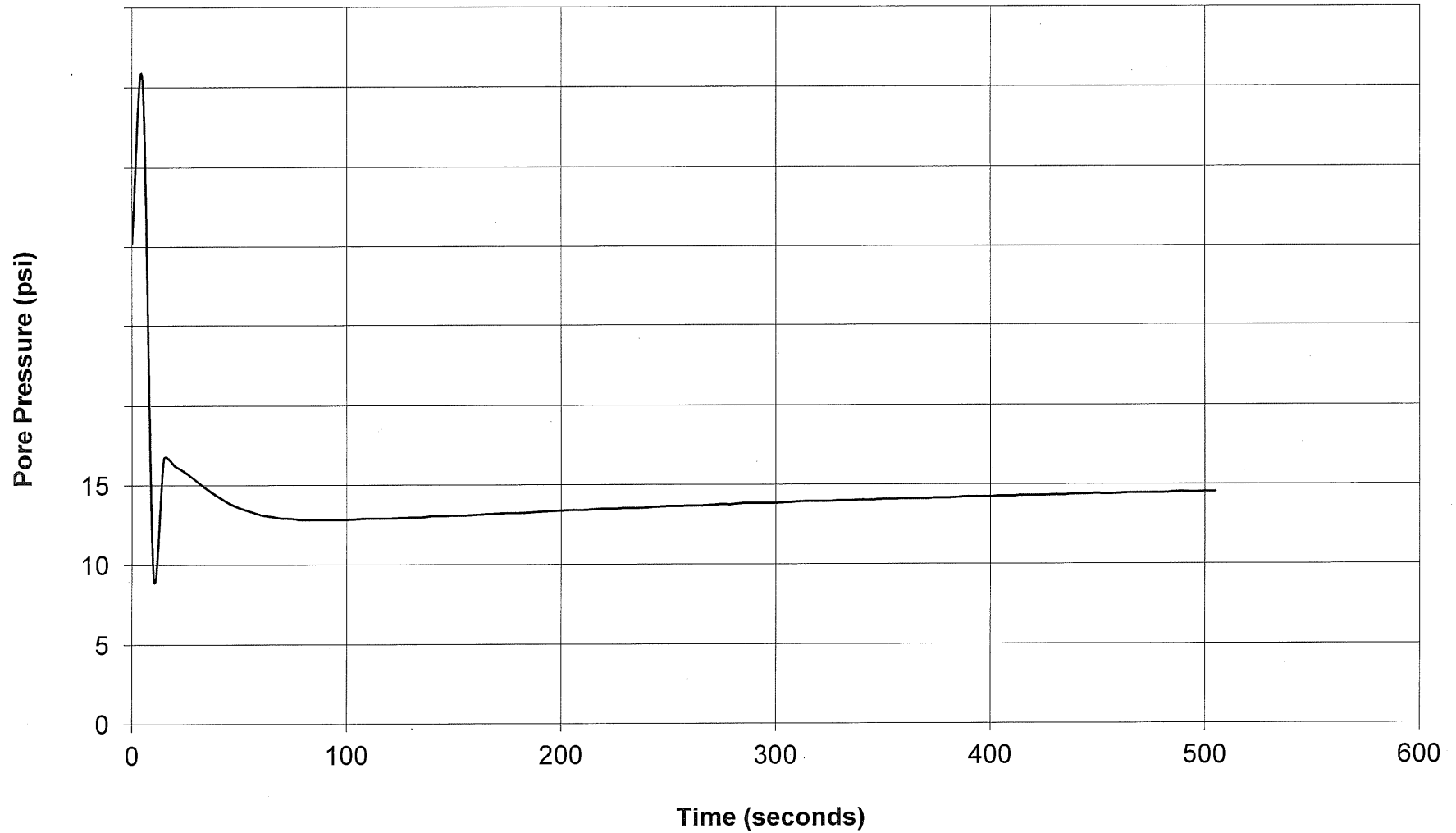




GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: CPT-01
Depth: 56.430276
Site: 4895 HACIENDA
Engineer: S.LEWIS

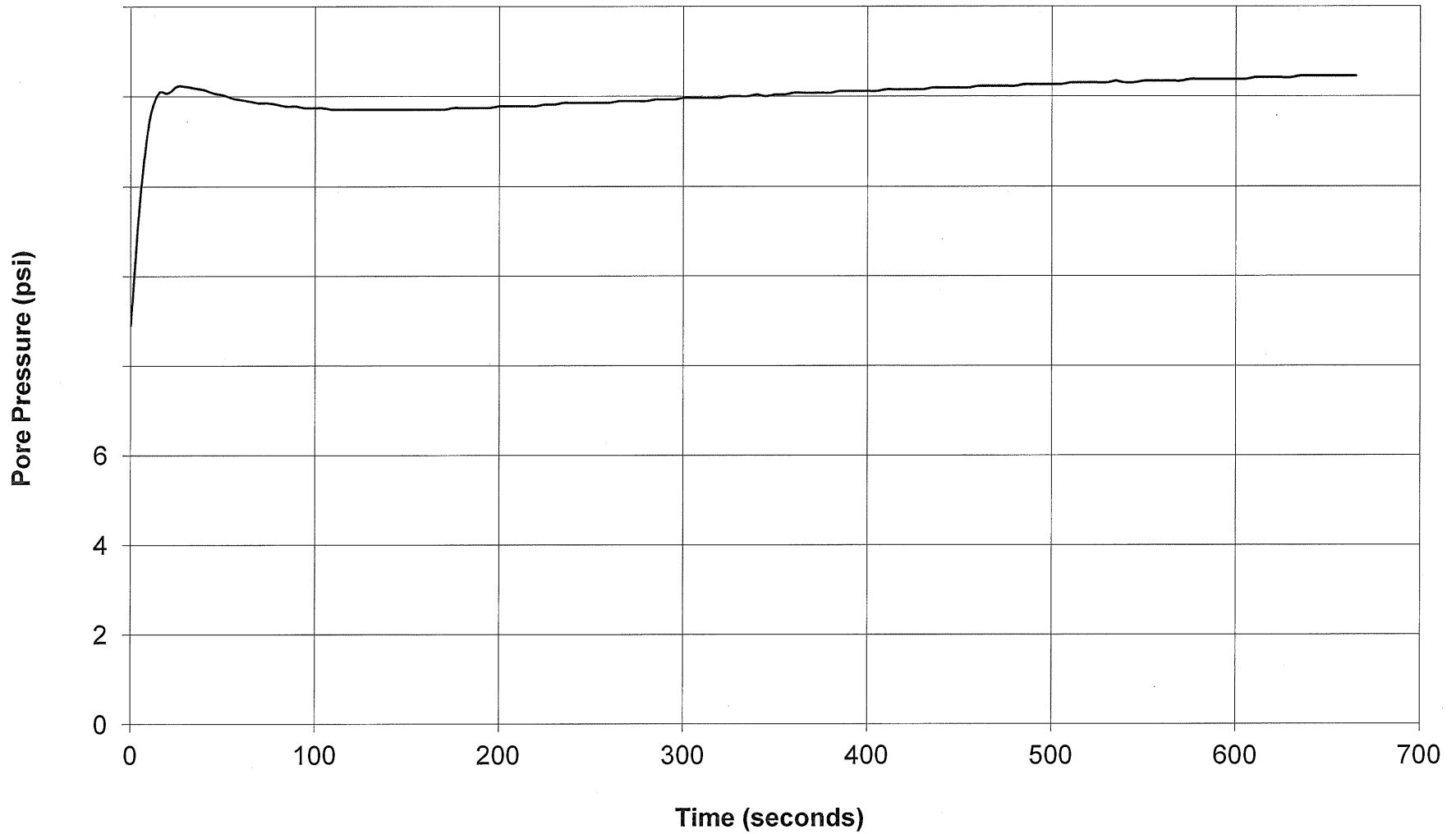




GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: CPT-03
Depth: 53.3134875
Site: 4895 HACIENDA
Engineer: S.LEWIS



APPENDIX C
CERTIFIED ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 440-5782-1
Client Project/Site: 4895 Hacienda Dr., Dublin

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer

Philip Sanelle

Authorized for release by:
4/4/2012 3:56:24 PM

Philip Sanelle
Project Manager I
philip.sanelle@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-5782-1	CPT-1-45'-49'	Water	03/14/12 11:30	03/17/12 09:35
440-5782-2	CPT-1-56'-59'	Water	03/14/12 12:51	03/17/12 09:35
440-5782-3	CPT-2-56'-60'	Water	03/15/12 10:10	03/17/12 09:35
440-5782-4	CPT-3-29'-32'	Water	03/15/12 14:09	03/17/12 09:35
440-5782-5	CPT-4-20.5'-24.5'	Water	03/16/12 08:55	03/17/12 09:35
440-5782-6	CPT-4-31'-34'	Water	03/16/12 09:35	03/17/12 09:35
440-5782-7	CPT-4-54'-57'	Water	03/16/12 10:25	03/17/12 09:35

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Job ID: 440-5782-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-5782-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC Semi VOA

Method(s) 8015B: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 14328. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Client Sample ID: CPT-1-45'-49'

Lab Sample ID: 440-5782-1

Date Collected: 03/14/12 11:30

Matrix: Water

Date Received: 03/17/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			03/27/12 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		80 - 120		03/27/12 23:03	1
4-Bromofluorobenzene (Surr)	89		80 - 120		03/27/12 23:03	1
Toluene-d8 (Surr)	98		80 - 120		03/27/12 23:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/27/12 23:03	1
Ethylbenzene	ND		0.50		ug/L			03/27/12 23:03	1
Toluene	ND		0.50		ug/L			03/27/12 23:03	1
Xylenes, Total	ND		1.0		ug/L			03/27/12 23:03	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			03/27/12 23:03	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			03/27/12 23:03	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/27/12 23:03	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			03/27/12 23:03	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/27/12 23:03	1
1,2-Dichloroethane	ND		0.50		ug/L			03/27/12 23:03	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/27/12 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120		03/27/12 23:03	1
Dibromofluoromethane (Surr)	89		80 - 120		03/27/12 23:03	1
Toluene-d8 (Surr)	98		80 - 120		03/27/12 23:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	100		47		ug/L		03/20/12 11:06	03/20/12 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	83		45 - 120		03/20/12 11:06	1

Client Sample ID: CPT-1-56'-59'

Lab Sample ID: 440-5782-2

Date Collected: 03/14/12 12:51

Matrix: Water

Date Received: 03/17/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			03/28/12 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	87		80 - 120		03/28/12 01:04	1
4-Bromofluorobenzene (Surr)	87		80 - 120		03/28/12 01:04	1
Toluene-d8 (Surr)	99		80 - 120		03/28/12 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/12 01:04	1
Ethylbenzene	ND		0.50		ug/L			03/28/12 01:04	1
Toluene	ND		0.50		ug/L			03/28/12 01:04	1
Xylenes, Total	ND		1.0		ug/L			03/28/12 01:04	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			03/28/12 01:04	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Client Sample ID: CPT-1-56'-59'

Lab Sample ID: 440-5782-2

Date Collected: 03/14/12 12:51

Matrix: Water

Date Received: 03/17/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			03/28/12 01:04	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/28/12 01:04	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			03/28/12 01:04	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/28/12 01:04	1
1,2-Dichloroethane	ND		0.50		ug/L			03/28/12 01:04	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/28/12 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		80 - 120					03/28/12 01:04	1
Dibromofluoromethane (Surr)	87		80 - 120					03/28/12 01:04	1
Toluene-d8 (Surr)	99		80 - 120					03/28/12 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		47		ug/L		03/20/12 11:06	03/20/12 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	89		45 - 120				03/20/12 11:06	03/20/12 20:06	1

Client Sample ID: CPT-2-56'-60'

Lab Sample ID: 440-5782-3

Date Collected: 03/15/12 10:10

Matrix: Water

Date Received: 03/17/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			03/28/12 01:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		80 - 120					03/28/12 01:34	1
4-Bromofluorobenzene (Surr)	88		80 - 120					03/28/12 01:34	1
Toluene-d8 (Surr)	98		80 - 120					03/28/12 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/12 01:34	1
Ethylbenzene	ND		0.50		ug/L			03/28/12 01:34	1
Toluene	ND		0.50		ug/L			03/28/12 01:34	1
Xylenes, Total	ND		1.0		ug/L			03/28/12 01:34	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			03/28/12 01:34	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			03/28/12 01:34	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/28/12 01:34	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			03/28/12 01:34	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/28/12 01:34	1
1,2-Dichloroethane	ND		0.50		ug/L			03/28/12 01:34	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/28/12 01:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120					03/28/12 01:34	1
Dibromofluoromethane (Surr)	89		80 - 120					03/28/12 01:34	1
Toluene-d8 (Surr)	98		80 - 120					03/28/12 01:34	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Client Sample ID: CPT-2-56'-60'

Lab Sample ID: 440-5782-3

Date Collected: 03/15/12 10:10

Matrix: Water

Date Received: 03/17/12 09:35

Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	86		47		ug/L		03/21/12 11:50	03/22/12 02:58	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
n-Octacosane	83		45 - 120				03/21/12 11:50	03/22/12 02:58	1	

Client Sample ID: CPT-3-29'-32'

Lab Sample ID: 440-5782-4

Date Collected: 03/15/12 14:09

Matrix: Water

Date Received: 03/17/12 09:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			03/28/12 02:04	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Dibromofluoromethane (Surr)	89		80 - 120					03/28/12 02:04	1	
4-Bromofluorobenzene (Surr)	90		80 - 120					03/28/12 02:04	1	
Toluene-d8 (Surr)	98		80 - 120					03/28/12 02:04	1	

Method: 8260B - Volatile Organic Compounds (GC/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.50		ug/L			03/28/12 02:04	1	
Ethylbenzene	ND		0.50		ug/L			03/28/12 02:04	1	
Toluene	ND		0.50		ug/L			03/28/12 02:04	1	
Xylenes, Total	ND		1.0		ug/L			03/28/12 02:04	1	
Isopropyl Ether (DIPE)	ND		0.50		ug/L			03/28/12 02:04	1	
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			03/28/12 02:04	1	
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/28/12 02:04	1	
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			03/28/12 02:04	1	
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/28/12 02:04	1	
1,2-Dichloroethane	ND		0.50		ug/L			03/28/12 02:04	1	
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/28/12 02:04	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	90		80 - 120					03/28/12 02:04	1	
Dibromofluoromethane (Surr)	89		80 - 120					03/28/12 02:04	1	
Toluene-d8 (Surr)	98		80 - 120					03/28/12 02:04	1	

Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	53		47		ug/L		03/21/12 11:50	03/22/12 03:18	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
n-Octacosane	78		45 - 120				03/21/12 11:50	03/22/12 03:18	1	

Client Sample ID: CPT-4-20.5'-24.5'

Lab Sample ID: 440-5782-5

Date Collected: 03/16/12 08:55

Matrix: Water

Date Received: 03/17/12 09:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Volatile Fuel Hydrocarbons (C4-C12)	310		250		ug/L			03/28/12 02:34	5	

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Client Sample ID: CPT-4-20.5'-24.5'

Lab Sample ID: 440-5782-5

Date Collected: 03/16/12 08:55

Matrix: Water

Date Received: 03/17/12 09:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		80 - 120		03/28/12 02:34	5
4-Bromofluorobenzene (Surr)	88		80 - 120		03/28/12 02:34	5
Toluene-d8 (Surr)	99		80 - 120		03/28/12 02:34	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.5		ug/L			03/28/12 02:34	5
Ethylbenzene	ND		2.5		ug/L			03/28/12 02:34	5
Toluene	ND		2.5		ug/L			03/28/12 02:34	5
Xylenes, Total	ND		5.0		ug/L			03/28/12 02:34	5
Isopropyl Ether (DIPE)	ND		2.5		ug/L			03/28/12 02:34	5
Ethyl-t-butyl ether (ETBE)	ND		2.5		ug/L			03/28/12 02:34	5
Methyl-t-Butyl Ether (MTBE)	410		2.5		ug/L			03/28/12 02:34	5
Tert-amyl-methyl ether (TAME)	ND		2.5		ug/L			03/28/12 02:34	5
tert-Butyl alcohol (TBA)	ND		50		ug/L			03/28/12 02:34	5
1,2-Dichloroethane	ND		2.5		ug/L			03/28/12 02:34	5
1,2-Dibromoethane (EDB)	ND		2.5		ug/L			03/28/12 02:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		03/28/12 02:34	5
Dibromofluoromethane (Surr)	93		80 - 120		03/28/12 02:34	5
Toluene-d8 (Surr)	99		80 - 120		03/28/12 02:34	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		47		ug/L		03/22/12 16:56	03/22/12 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	82		45 - 120		03/22/12 16:56	1

Client Sample ID: CPT-4-31'-34'

Lab Sample ID: 440-5782-6

Date Collected: 03/16/12 09:35

Matrix: Water

Date Received: 03/17/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	180		130		ug/L			03/28/12 03:03	2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	90		80 - 120		03/28/12 03:03	2.5
4-Bromofluorobenzene (Surr)	87		80 - 120		03/28/12 03:03	2.5
Toluene-d8 (Surr)	98		80 - 120		03/28/12 03:03	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.3		ug/L			03/28/12 03:03	2.5
Ethylbenzene	ND		1.3		ug/L			03/28/12 03:03	2.5
Toluene	ND		1.3		ug/L			03/28/12 03:03	2.5
Xylenes, Total	ND		2.5		ug/L			03/28/12 03:03	2.5
Isopropyl Ether (DIPE)	ND		1.3		ug/L			03/28/12 03:03	2.5
Ethyl-t-butyl ether (ETBE)	ND		1.3		ug/L			03/28/12 03:03	2.5
Methyl-t-Butyl Ether (MTBE)	240		1.3		ug/L			03/28/12 03:03	2.5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Client Sample ID: CPT-4-31'-34'

Lab Sample ID: 440-5782-6

Date Collected: 03/16/12 09:35

Matrix: Water

Date Received: 03/17/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	ND		1.3		ug/L			03/28/12 03:03	2.5
tert-Butyl alcohol (TBA)	ND		25		ug/L			03/28/12 03:03	2.5
1,2-Dichloroethane	ND		1.3		ug/L			03/28/12 03:03	2.5
1,2-Dibromoethane (EDB)	ND		1.3		ug/L			03/28/12 03:03	2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		80 - 120		03/28/12 03:03	2.5
Dibromofluoromethane (Surr)	90		80 - 120		03/28/12 03:03	2.5
Toluene-d8 (Surr)	98		80 - 120		03/28/12 03:03	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	53		47		ug/L		03/22/12 16:56	03/22/12 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	90		45 - 120		03/22/12 16:56	03/22/12 23:16

Client Sample ID: CPT-4-54'-57'

Lab Sample ID: 440-5782-7

Date Collected: 03/16/12 10:25

Matrix: Water

Date Received: 03/17/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			03/28/12 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 120		03/28/12 03:33	1
4-Bromofluorobenzene (Surr)	88		80 - 120		03/28/12 03:33	1
Toluene-d8 (Surr)	98		80 - 120		03/28/12 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/12 03:33	1
Ethylbenzene	ND		0.50		ug/L			03/28/12 03:33	1
Toluene	ND		0.50		ug/L			03/28/12 03:33	1
Xylenes, Total	ND		1.0		ug/L			03/28/12 03:33	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			03/28/12 03:33	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			03/28/12 03:33	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/28/12 03:33	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			03/28/12 03:33	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/28/12 03:33	1
1,2-Dichloroethane	ND		0.50		ug/L			03/28/12 03:33	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/28/12 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		03/28/12 03:33	1
Dibromofluoromethane (Surr)	94		80 - 120		03/28/12 03:33	1
Toluene-d8 (Surr)	98		80 - 120		03/28/12 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	88		47		ug/L		03/22/12 16:56	03/22/12 23:36	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Client Sample ID: CPT-4-54'-57'

Lab Sample ID: 440-5782-7

Date Collected: 03/16/12 10:25

Matrix: Water

Date Received: 03/17/12 09:35

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>n-Octacosane</i>	89		45 - 120	03/22/12 16:56	03/22/12 23:36	1

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Client Sample ID: CPT-1-45'-49'

Lab Sample ID: 440-5782-1

Date Collected: 03/14/12 11:30

Matrix: Water

Date Received: 03/17/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	15907	03/27/12 23:03	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	15908	03/27/12 23:03	YK	TAL IRV
Total/NA	Prep	3510C			1060 mL	1 mL	14328	03/20/12 11:06	AV	TAL IRV
Total/NA	Analysis	8015B		1			14379	03/20/12 20:26	CP	TAL IRV

Client Sample ID: CPT-1-56'-59'

Lab Sample ID: 440-5782-2

Date Collected: 03/14/12 12:51

Matrix: Water

Date Received: 03/17/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	15907	03/28/12 01:04	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	15908	03/28/12 01:04	YK	TAL IRV
Total/NA	Prep	3510C			1060 mL	1 mL	14328	03/20/12 11:06	AV	TAL IRV
Total/NA	Analysis	8015B		1			14379	03/20/12 20:06	CP	TAL IRV

Client Sample ID: CPT-2-56'-60'

Lab Sample ID: 440-5782-3

Date Collected: 03/15/12 10:10

Matrix: Water

Date Received: 03/17/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	15907	03/28/12 01:34	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	15908	03/28/12 01:34	YK	TAL IRV
Total/NA	Prep	3510C			1060 mL	1 mL	14624	03/21/12 11:50	AV	TAL IRV
Total/NA	Analysis	8015B		1			14811	03/22/12 02:58	ES	TAL IRV

Client Sample ID: CPT-3-29'-32'

Lab Sample ID: 440-5782-4

Date Collected: 03/15/12 14:09

Matrix: Water

Date Received: 03/17/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	15907	03/28/12 02:04	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	15908	03/28/12 02:04	YK	TAL IRV
Total/NA	Prep	3510C			1060 mL	1 mL	14624	03/21/12 11:50	AV	TAL IRV
Total/NA	Analysis	8015B		1			14811	03/22/12 03:18	ES	TAL IRV

Client Sample ID: CPT-4-20.5'-24.5'

Lab Sample ID: 440-5782-5

Date Collected: 03/16/12 08:55

Matrix: Water

Date Received: 03/17/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	15907	03/28/12 02:34	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	10 mL	10 mL	15908	03/28/12 02:34	YK	TAL IRV
Total/NA	Prep	3510C			1060 mL	1 mL	15005	03/22/12 16:56	AV	TAL IRV

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Client Sample ID: CPT-4-20.5'-24.5'

Lab Sample ID: 440-5782-5

Date Collected: 03/16/12 08:55

Matrix: Water

Date Received: 03/17/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1			14959	03/22/12 22:55	CP	TAL IRV

Client Sample ID: CPT-4-31'-34'

Lab Sample ID: 440-5782-6

Date Collected: 03/16/12 09:35

Matrix: Water

Date Received: 03/17/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	10 mL	10 mL	15907	03/28/12 03:03	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		2.5	10 mL	10 mL	15908	03/28/12 03:03	YK	TAL IRV
Total/NA	Prep	3510C			1060 mL	1 mL	15005	03/22/12 16:56	AV	TAL IRV
Total/NA	Analysis	8015B		1			14959	03/22/12 23:16	CP	TAL IRV

Client Sample ID: CPT-4-54'-57'

Lab Sample ID: 440-5782-7

Date Collected: 03/16/12 10:25

Matrix: Water

Date Received: 03/17/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	15907	03/28/12 03:33	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	15908	03/28/12 03:33	YK	TAL IRV
Total/NA	Prep	3510C			1060 mL	1 mL	15005	03/22/12 16:56	AV	TAL IRV
Total/NA	Analysis	8015B		1			14959	03/22/12 23:36	CP	TAL IRV

Laboratory References:

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

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

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

Lab Sample ID: MB 440-15907/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 15907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/27/12 19:58	1
Ethylbenzene	ND		0.50		ug/L			03/27/12 19:58	1
Toluene	ND		0.50		ug/L			03/27/12 19:58	1
Xylenes, Total	ND		1.0		ug/L			03/27/12 19:58	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			03/27/12 19:58	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			03/27/12 19:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/27/12 19:58	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			03/27/12 19:58	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/27/12 19:58	1
1,2-Dichloroethane	ND		0.50		ug/L			03/27/12 19:58	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/27/12 19:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		03/27/12 19:58	1
Dibromofluoromethane (Surr)	89		80 - 120		03/27/12 19:58	1
Toluene-d8 (Surr)	99		80 - 120		03/27/12 19:58	1

Lab Sample ID: LCS 440-15907/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 15907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.7		ug/L		95	70 - 120
Ethylbenzene	25.0	23.3		ug/L		93	75 - 125
Toluene	25.0	24.5		ug/L		98	70 - 120
Isopropyl Ether (DIPE)	25.0	22.8		ug/L		91	60 - 135
Ethyl-t-butyl ether (ETBE)	25.0	20.1		ug/L		80	65 - 135
Methyl-t-Butyl Ether (MTBE)	25.0	19.8		ug/L		79	60 - 135
Tert-amyl-methyl ether (TAME)	25.0	19.5		ug/L		78	60 - 135
tert-Butyl alcohol (TBA)	125	137		ug/L		109	70 - 135
1,2-Dichloroethane	25.0	23.2		ug/L		93	60 - 140
1,2-Dibromoethane (EDB)	25.0	22.2		ug/L		89	75 - 125
m,p-Xylene	50.0	48.8		ug/L		98	75 - 125
o-Xylene	25.0	24.3		ug/L		97	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	90		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 440-5782-1 MS

Client Sample ID: CPT-1-45'-49'

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 15907

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	24.0		ug/L		96	65 - 125
Ethylbenzene	ND		25.0	23.5		ug/L		94	65 - 130
Toluene	ND		25.0	25.1		ug/L		99	70 - 125
Isopropyl Ether (DIPE)	ND		25.0	24.0		ug/L		96	60 - 140

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

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

Lab Sample ID: 440-5782-1 MS

Matrix: Water

Analysis Batch: 15907

Client Sample ID: CPT-1-45'-49'

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier					Limits
Ethyl-t-butyl ether (ETBE)	ND		25.0	22.2		ug/L		89	60 - 135	
Methyl-t-Butyl Ether (MTBE)	ND		25.0	21.9		ug/L		88	55 - 145	
Tert-amyl-methyl ether (TAME)	ND		25.0	21.7		ug/L		87	60 - 140	
tert-Butyl alcohol (TBA)	ND		125	157		ug/L		126	65 - 140	
1,2-Dichloroethane	ND		25.0	24.1		ug/L		96	60 - 140	
1,2-Dibromoethane (EDB)	ND		25.0	23.4		ug/L		94	70 - 130	
m,p-Xylene	ND		50.0	50.4		ug/L		101	65 - 130	
o-Xylene	ND		25.0	25.2		ug/L		101	65 - 125	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	90		80 - 120							
Dibromofluoromethane (Surr)	92		80 - 120							
Toluene-d8 (Surr)	98		80 - 120							

Lab Sample ID: 440-5782-1 MSD

Matrix: Water

Analysis Batch: 15907

Client Sample ID: CPT-1-45'-49'

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	ND		25.0	24.7		ug/L		99	65 - 125	3	20
Ethylbenzene	ND		25.0	24.6		ug/L		98	65 - 130	5	20
Toluene	ND		25.0	26.1		ug/L		103	70 - 125	4	20
Isopropyl Ether (DIPE)	ND		25.0	24.9		ug/L		100	60 - 140	4	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	22.7		ug/L		91	60 - 135	2	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	21.6		ug/L		86	55 - 145	1	25
Tert-amyl-methyl ether (TAME)	ND		25.0	22.3		ug/L		89	60 - 140	3	30
tert-Butyl alcohol (TBA)	ND		125	158		ug/L		126	65 - 140	1	25
1,2-Dichloroethane	ND		25.0	24.9		ug/L		100	60 - 140	3	20
1,2-Dibromoethane (EDB)	ND		25.0	24.2		ug/L		97	70 - 130	3	25
m,p-Xylene	ND		50.0	52.6		ug/L		105	65 - 130	4	25
o-Xylene	ND		25.0	26.4		ug/L		106	65 - 125	5	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		80 - 120								
Dibromofluoromethane (Surr)	92		80 - 120								
Toluene-d8 (Surr)	100		80 - 120								

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

Lab Sample ID: MB 440-15908/4

Matrix: Water

Analysis Batch: 15908

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			03/27/12 19:58	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Dibromofluoromethane (Surr)	89		80 - 120		03/27/12 19:58	1			

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

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

Lab Sample ID: MB 440-15908/4
Matrix: Water
Analysis Batch: 15908

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	88		80 - 120		03/27/12 19:58	1
Toluene-d8 (Surr)	99		80 - 120		03/27/12 19:58	1

Lab Sample ID: LCS 440-15908/6
Matrix: Water
Analysis Batch: 15908

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	460		ug/L		92	55 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	86		80 - 120
4-Bromofluorobenzene (Surr)	90		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 440-5782-1 MS
Matrix: Water
Analysis Batch: 15908

Client Sample ID: CPT-1-45'-49'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1220		ug/L		70	50 - 145

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	90		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 440-5782-1 MSD
Matrix: Water
Analysis Batch: 15908

Client Sample ID: CPT-1-45'-49'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1250		ug/L		73	50 - 145	3	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120
Toluene-d8 (Surr)	100		80 - 120

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

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

Lab Sample ID: MB 440-14328/1-A						Client Sample ID: Method Blank				
Matrix: Water						Prep Type: Total/NA				
Analysis Batch: 14379						Prep Batch: 14328				
		MB MB								
Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]		ND		50		ug/L		03/20/12 11:06	03/20/12 14:51	1
		MB MB								
Surrogate		%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane		86		45 - 120				03/20/12 11:06	03/20/12 14:51	1

Lab Sample ID: LCS 440-14328/2-A						Client Sample ID: Lab Control Sample				
Matrix: Water						Prep Type: Total/NA				
Analysis Batch: 14380						Prep Batch: 14328				
				Spike						
Analyte				Added	LCS	LCS		%Rec	Limits	
Diesel Range Organics [C10-C28]				1000	808			81	40 - 115	
					LCS	LCS				
Surrogate		%Recovery	Qualifier	Limits						
n-Octacosane		87		45 - 120						

Lab Sample ID: LCSD 440-14328/3-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Water						Prep Type: Total/NA				
Analysis Batch: 14380						Prep Batch: 14328				
				Spike						
Analyte				Added	LCSD	LCSD		%Rec	Limits	RPD
Diesel Range Organics [C10-C28]				1000	835			83	40 - 115	3 25
					LCSD	LCSD				
Surrogate		%Recovery	Qualifier	Limits						
n-Octacosane		92		45 - 120						

Lab Sample ID: MB 440-14624/1-A						Client Sample ID: Method Blank				
Matrix: Water						Prep Type: Total/NA				
Analysis Batch: 14811						Prep Batch: 14624				
		MB MB								
Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]		ND		50		ug/L		03/21/12 11:50	03/21/12 21:34	1
		MB MB								
Surrogate		%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane		81		45 - 120				03/21/12 11:50	03/21/12 21:34	1

Lab Sample ID: LCS 440-14624/2-A						Client Sample ID: Lab Control Sample				
Matrix: Water						Prep Type: Total/NA				
Analysis Batch: 14811						Prep Batch: 14624				
				Spike						
Analyte				Added	LCS	LCS		%Rec	Limits	
Diesel Range Organics [C10-C28]				1000	773			77	40 - 115	
					LCS	LCS				
Surrogate		%Recovery	Qualifier	Limits						
n-Octacosane		81		45 - 120						

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

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

Lab Sample ID: LCSD 440-14624/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 14811				Prep Batch: 14624						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Diesel Range Organics [C10-C28]	1000	750		ug/L	-	75	40 - 115	3	25	
		LCSD %Recovery	LCSD Qualifier							
<i>Surrogate</i> <i>n-Octacosane</i>		80								

Lab Sample ID: MB 440-15005/1-A				Client Sample ID: Method Blank						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 14959				Prep Batch: 15005						
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		50		ug/L	-	03/22/12 16:56	03/22/12 21:55	1	
		MB %Recovery	MB Qualifier					Prepared	Analyzed	Dil Fac
<i>Surrogate</i> <i>n-Octacosane</i>		83						03/22/12 16:56	03/22/12 21:55	1

Lab Sample ID: LCS 440-15005/2-A				Client Sample ID: Lab Control Sample						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 14959				Prep Batch: 15005						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits			
Diesel Range Organics [C10-C28]	1000	808		ug/L	-	81	40 - 115			
		LCS %Recovery	LCS Qualifier							
<i>Surrogate</i> <i>n-Octacosane</i>		89								

Lab Sample ID: LCSD 440-15005/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 14959				Prep Batch: 15005						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Diesel Range Organics [C10-C28]	1000	769		ug/L	-	77	40 - 115	5	25	
		LCSD %Recovery	LCSD Qualifier							
<i>Surrogate</i> <i>n-Octacosane</i>		83								

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

GC/MS VOA

Analysis Batch: 15907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5782-1	CPT-1-45'-49'	Total/NA	Water	8260B	
440-5782-1 MS	CPT-1-45'-49'	Total/NA	Water	8260B	
440-5782-1 MSD	CPT-1-45'-49'	Total/NA	Water	8260B	
440-5782-2	CPT-1-56'-59'	Total/NA	Water	8260B	
440-5782-3	CPT-2-56'-60'	Total/NA	Water	8260B	
440-5782-4	CPT-3-29'-32'	Total/NA	Water	8260B	
440-5782-5	CPT-4-20.5'-24.5'	Total/NA	Water	8260B	
440-5782-6	CPT-4-31'-34'	Total/NA	Water	8260B	
440-5782-7	CPT-4-54'-57'	Total/NA	Water	8260B	
LCS 440-15907/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-15907/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 15908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5782-1	CPT-1-45'-49'	Total/NA	Water	8260B/CA_LUFT MS	
440-5782-1 MS	CPT-1-45'-49'	Total/NA	Water	8260B/CA_LUFT MS	
440-5782-1 MSD	CPT-1-45'-49'	Total/NA	Water	8260B/CA_LUFT MS	
440-5782-2	CPT-1-56'-59'	Total/NA	Water	8260B/CA_LUFT MS	
440-5782-3	CPT-2-56'-60'	Total/NA	Water	8260B/CA_LUFT MS	
440-5782-4	CPT-3-29'-32'	Total/NA	Water	8260B/CA_LUFT MS	
440-5782-5	CPT-4-20.5'-24.5'	Total/NA	Water	8260B/CA_LUFT MS	
440-5782-6	CPT-4-31'-34'	Total/NA	Water	8260B/CA_LUFT MS	
440-5782-7	CPT-4-54'-57'	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-15908/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-15908/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 14328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5782-1	CPT-1-45'-49'	Total/NA	Water	3510C	
440-5782-2	CPT-1-56'-59'	Total/NA	Water	3510C	
LCS 440-14328/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-14328/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 440-14328/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 14379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5782-1	CPT-1-45'-49'	Total/NA	Water	8015B	14328
440-5782-2	CPT-1-56'-59'	Total/NA	Water	8015B	14328
MB 440-14328/1-A	Method Blank	Total/NA	Water	8015B	14328

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

GC Semi VOA (Continued)

Analysis Batch: 14380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-14328/2-A	Lab Control Sample	Total/NA	Water	8015B	14328
LCSD 440-14328/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	14328

Prep Batch: 14624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5782-3	CPT-2-56'-60'	Total/NA	Water	3510C	
440-5782-4	CPT-3-29'-32'	Total/NA	Water	3510C	
LCS 440-14624/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-14624/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 440-14624/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 14811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5782-3	CPT-2-56'-60'	Total/NA	Water	8015B	14624
440-5782-4	CPT-3-29'-32'	Total/NA	Water	8015B	14624
LCS 440-14624/2-A	Lab Control Sample	Total/NA	Water	8015B	14624
LCSD 440-14624/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	14624
MB 440-14624/1-A	Method Blank	Total/NA	Water	8015B	14624

Analysis Batch: 14959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5782-5	CPT-4-20.5'-24.5'	Total/NA	Water	8015B	15005
440-5782-6	CPT-4-31'-34'	Total/NA	Water	8015B	15005
440-5782-7	CPT-4-54'-57'	Total/NA	Water	8015B	15005
LCS 440-15005/2-A	Lab Control Sample	Total/NA	Water	8015B	15005
LCSD 440-15005/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	15005
MB 440-15005/1-A	Method Blank	Total/NA	Water	8015B	15005

Prep Batch: 15005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5782-5	CPT-4-20.5'-24.5'	Total/NA	Water	3510C	
440-5782-6	CPT-4-31'-34'	Total/NA	Water	3510C	
440-5782-7	CPT-4-54'-57'	Total/NA	Water	3510C	
LCS 440-15005/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-15005/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 440-15005/1-A	Method Blank	Total/NA	Water	3510C	

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☆	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5782-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	California	State Program	9	2706
TestAmerica Irvine	Guam	State Program	9	Cert. No. 10.001r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

440-5782

LAB (LOCATION)



Shell Oil Products Chain Of Custody Record

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

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SDBCM	<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 240695**

INCIDENT # (ENV SERVICES): _____

PO #: _____ SAP #: _____

CHECK IF NO INCIDENT # APPLIES:

DATE: **3-16-12**

PAGE: **1** of **1**

SAMPLING COMPANY: Conestoga-Rovers & Associates		LOG CODE: CRAW	SITE ADDRESS: Street and City 4895 Hacienda Drive, Dublin,		State CA	GLOBAL ID NO.: T10000000423
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608			EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville		PHONE NO.: 510-420-3343	E-MAIL: shell.em.edf@croworld.com
PROJECT CONTACT (Handcopy or PDF Report to): Peter Schaefer			SAMPLER NAME(S) (Print): Scott Lewis		CONSULTANT PROJECT NO.: 240695-95-	
TELEPHONE: 510-420-3319	FAX: 510-420-9170	E-MAIL: pschaefer@croworld.com	LAB USE ONLY			

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS													TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes				
	DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPH (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAIME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)						
CPT-1-45'-49'	3/4	1130	GL	X			X		5	X	X							X	X									
CPT-1-56'-59'	3/4	1251	GL	X			X		5	X	X							X	X									
CPT-2-56'-60'	3/15	1010	GL	X			X		5	X	X							X	X									
CPT-3-29'-32'	3/15	1409	GL	X			X		5	X	X							X	X									
CPT-4-20.5'-24.5'	3/16	0955	GL	X			X		5	X	X							X	X									
CPT-4-31'-34'	3/16	0735	GL	X			X		5	X	X							X	X									
CPT-4-31'-34'																												
CPT-4-54'-57'	3/16	1025	GL	X			X		5	X	X							X	X									

Relinquished by: (Signature) <i>Scott Lewis</i>	Received by: (Signature) <i>Heath Taylor</i>	Date: 3-16-12	Time: 11:45
Relinquished by: (Signature) <i>Heath Taylor</i> 3-16-12 10:00	Received by: (Signature) <i>Maggett-Sales</i>	Date: 3/17/12	Time: 9:35

2.6cc / 1.9cc

Page 22 of 23

4/4/2012

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-5782-1

Login Number: 5782

List Source: TestAmerica Irvine

List Number: 1

Creator: Salas, Margarita

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

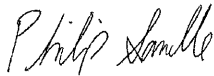
ANALYTICAL REPORT

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

TestAmerica Job ID: 440-5783-1
Client Project/Site: 4895 Hacienda Dr., Dublin

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:
3/30/2012 7:12:54 PM

Philip Sanelle
Project Manager I
philip.sanelle@testamericainc.com

LINKS

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results through
TotalAccess

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The
Expert**

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-5783-1	CRA-1A	Solid	03/15/12 08:40	03/17/12 09:35

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

Job ID: 440-5783-1

Laboratory: TestAmerica Irvine

Narrative

**Job Narrative
440-5783-1**

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC Semi VOA

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries associated with batch 15216 were below acceptance limits: (440-6337-1 MS), (440-6337-1 MSD). Matrix interference is suspected.

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 15216 was outside control limits due to sample matrix effects.

No other analytical or quality issues were noted.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

Client Sample ID: CRA-1A

Lab Sample ID: 440-5783-1

Date Collected: 03/15/12 08:40

Matrix: Solid

Date Received: 03/17/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			03/22/12 10:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		80 - 125					03/22/12 10:30	1
4-Bromofluorobenzene (Surr)	105		75 - 120					03/22/12 10:30	1
Toluene-d8 (Surr)	106		80 - 120					03/22/12 10:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			03/22/12 10:30	1
Ethylbenzene	ND		0.00099		mg/Kg			03/22/12 10:30	1
Toluene	ND		0.00099		mg/Kg			03/22/12 10:30	1
Xylenes, Total	ND		0.0020		mg/Kg			03/22/12 10:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120					03/22/12 10:30	1
Dibromofluoromethane (Surr)	117		80 - 125					03/22/12 10:30	1
Toluene-d8 (Surr)	106		80 - 120					03/22/12 10:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		5.0		mg/Kg		03/23/12 14:05	03/24/12 01:27	1
ORO (C29-C40)	ND		5.0		mg/Kg		03/23/12 14:05	03/24/12 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	78		40 - 140				03/23/12 14:05	03/24/12 01:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Arsenic	3.6		2.0		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Barium	170		0.98		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Beryllium	ND		0.49		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Cadmium	ND		0.49		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Chromium	32		0.98		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Cobalt	9.8		0.98		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Copper	20		2.0		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Lead	6.6		2.0		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Molybdenum	ND		2.0		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Nickel	30		2.0		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Selenium	ND		2.0		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Thallium	ND		9.8		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Vanadium	35		0.98		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Zinc	41		4.9		mg/Kg		03/20/12 10:34	03/21/12 16:19	5
Silver	ND		0.98		mg/Kg		03/20/12 10:34	03/21/12 16:19	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020		mg/Kg		03/21/12 14:48	03/22/12 15:27	1

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

Client Sample ID: CRA-1A

Lab Sample ID: 440-5783-1

Date Collected: 03/15/12 08:40

Matrix: Solid

Date Received: 03/17/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	14842	03/22/12 10:30	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	14843	03/22/12 10:30	WC	TAL IRV
Total/NA	Prep	CA LUFT			30.05 g	1 mL	15216	03/23/12 14:05	AG	TAL IRV
Total/NA	Analysis	8015B		1			15235	03/24/12 01:27	ES	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	14321	03/20/12 10:34	MP	TAL IRV
Total/NA	Analysis	6010B		5			14759	03/21/12 16:19	TK	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	14674	03/21/12 14:48	SN	TAL IRV
Total/NA	Analysis	7471A		1			14988	03/22/12 15:27	DB	TAL IRV

Laboratory References:

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

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

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

Lab Sample ID: MB 440-14842/4

Matrix: Solid

Analysis Batch: 14842

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.0010		mg/Kg			03/22/12 08:51	1
Ethylbenzene	ND		0.0010		mg/Kg			03/22/12 08:51	1
Toluene	ND		0.0010		mg/Kg			03/22/12 08:51	1
Xylenes, Total	ND		0.0020		mg/Kg			03/22/12 08:51	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		80 - 120		03/22/12 08:51	1
Dibromofluoromethane (Surr)	106		80 - 125		03/22/12 08:51	1
Toluene-d8 (Surr)	104		80 - 120		03/22/12 08:51	1

Lab Sample ID: LCS 440-14842/5

Matrix: Solid

Analysis Batch: 14842

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.0490		mg/Kg		98	65 - 120
Ethylbenzene	0.0500	0.0454		mg/Kg		91	70 - 125
m,p-Xylene	0.100	0.0920		mg/Kg		92	70 - 125
o-Xylene	0.0500	0.0476		mg/Kg		95	70 - 125
Toluene	0.0500	0.0484		mg/Kg		97	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	105		80 - 125
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 440-5783-1 MS

Matrix: Solid

Analysis Batch: 14842

Client Sample ID: CRA-1A

Prep Type: Total/NA

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.0498	0.0520		mg/Kg		104	65 - 130
Ethylbenzene	ND		0.0498	0.0468		mg/Kg		94	70 - 135
m,p-Xylene	ND		0.0996	0.0954		mg/Kg		96	70 - 130
o-Xylene	ND		0.0498	0.0506		mg/Kg		102	65 - 130
Toluene	ND		0.0498	0.0522		mg/Kg		105	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	119		80 - 125
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 440-5783-1 MSD

Matrix: Solid

Analysis Batch: 14842

Client Sample ID: CRA-1A

Prep Type: Total/NA

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	ND		0.0499	0.0469		mg/Kg		94	65 - 130	10	20
Ethylbenzene	ND		0.0499	0.0431		mg/Kg		86	70 - 135	8	25

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

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

Lab Sample ID: 440-5783-1 MSD

Matrix: Solid

Analysis Batch: 14842

Client Sample ID: CRA-1A

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
m,p-Xylene	ND		0.0998	0.0856		mg/Kg		86	70 - 130	11		25
o-Xylene	ND		0.0499	0.0463		mg/Kg		93	65 - 130	9		25
Toluene	ND		0.0499	0.0469		mg/Kg		94	70 - 130	11		20
Surrogate	%Recovery	MSD Qualifier	Limits									
4-Bromofluorobenzene (Surr)	101		80 - 120									
Dibromofluoromethane (Surr)	116		80 - 125									
Toluene-d8 (Surr)	104		80 - 120									

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

Lab Sample ID: MB 440-14843/4

Matrix: Solid

Analysis Batch: 14843

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			03/22/12 08:51	1
Surrogate	%Recovery	MB Qualifier	Limits						
Dibromofluoromethane (Surr)	106		80 - 125						
4-Bromofluorobenzene (Surr)	105		75 - 120						
Toluene-d8 (Surr)	104		80 - 120						

Lab Sample ID: LCS 440-14843/6

Matrix: Solid

Analysis Batch: 14843

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
							Result
Volatile Fuel Hydrocarbons (C4-C12)	1.00	1.32		mg/Kg		132	60 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	104		80 - 125				
4-Bromofluorobenzene (Surr)	106		75 - 120				
Toluene-d8 (Surr)	107		80 - 120				

Lab Sample ID: 440-5783-1 MS

Matrix: Solid

Analysis Batch: 14843

Client Sample ID: CRA-1A

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	2.76		mg/Kg		80	55 - 140
Surrogate	%Recovery	MS Qualifier	Limits						
Dibromofluoromethane (Surr)	119		80 - 125						
4-Bromofluorobenzene (Surr)	100		75 - 120						
Toluene-d8 (Surr)	105		80 - 120						

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

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

Lab Sample ID: 440-5783-1 MSD

Matrix: Solid

Analysis Batch: 14843

Client Sample ID: CRA-1A

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	2.38		mg/Kg		69	55 - 140	15	25
Surrogate	%Recovery	Qualifier	Limits								
Dibromofluoromethane (Surr)	116		80 - 125								
4-Bromofluorobenzene (Surr)	101		75 - 120								
Toluene-d8 (Surr)	104		80 - 120								

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

Lab Sample ID: MB 440-15216/1-A

Matrix: Solid

Analysis Batch: 15234

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15216

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
DRO (C10-C28)	ND		5.0		mg/Kg		03/23/12 14:05	03/24/12 00:20	1	
ORO (C29-C40)	ND		5.0		mg/Kg		03/23/12 14:05	03/24/12 00:20	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
n-Octacosane	83		40 - 140				03/23/12 14:05	03/24/12 00:20	1	

Lab Sample ID: LCS 440-15216/2-A

Matrix: Solid

Analysis Batch: 15234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15216

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
DRO (C10-C28)	33.3	26.7		mg/Kg		80	45 - 115	
Surrogate	%Recovery	Qualifier	Limits					
n-Octacosane	83		40 - 140					

Lab Sample ID: 440-6337-A-1-A MS

Matrix: Solid

Analysis Batch: 15234

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15216

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
DRO (C10-C28)	65		33.3	36.8	F	mg/Kg		-85	40 - 120	
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane	83		40 - 140							

Lab Sample ID: 440-6337-A-1-B MSD

Matrix: Solid

Analysis Batch: 15234

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15216

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
DRO (C10-C28)	65		33.3	56.6	F	mg/Kg		-25	40 - 120	42	30

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

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

Lab Sample ID: 440-6337-A-1-B MSD
Matrix: Solid
Analysis Batch: 15234

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15216

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	82		40 - 140

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-14321/1-A ^5
Matrix: Solid
Analysis Batch: 14759

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Arsenic	ND		2.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Barium	ND		1.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Beryllium	ND		0.50		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Cadmium	ND		0.50		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Chromium	ND		1.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Cobalt	ND		1.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Copper	ND		2.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Lead	ND		2.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Molybdenum	ND		2.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Nickel	ND		2.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Selenium	ND		2.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Thallium	ND		10		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Vanadium	ND		1.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Zinc	ND		5.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5
Silver	ND		1.0		mg/Kg		03/20/12 10:34	03/21/12 15:36	5

Lab Sample ID: LCS 440-14321/2-A ^5
Matrix: Solid
Analysis Batch: 14759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.8	48.7		mg/Kg		96	80 - 120
Arsenic	50.8	46.7		mg/Kg		92	80 - 120
Barium	50.8	49.1		mg/Kg		97	80 - 120
Beryllium	50.8	46.8		mg/Kg		92	80 - 120
Cadmium	50.8	46.9		mg/Kg		92	80 - 120
Chromium	50.8	50.6		mg/Kg		100	80 - 120
Cobalt	50.8	47.8		mg/Kg		94	80 - 120
Copper	50.8	47.0		mg/Kg		93	80 - 120
Lead	50.8	49.6		mg/Kg		98	80 - 120
Molybdenum	50.8	51.5		mg/Kg		101	80 - 120
Nickel	50.8	48.1		mg/Kg		95	80 - 120
Selenium	50.8	46.5		mg/Kg		92	80 - 120
Thallium	50.8	49.0		mg/Kg		97	80 - 120
Vanadium	50.8	47.3		mg/Kg		93	80 - 120
Zinc	50.8	46.3		mg/Kg		91	80 - 120
Silver	25.4	24.3		mg/Kg		96	80 - 120

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

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

Lab Sample ID: 440-5783-1 MS
 Matrix: Solid
 Analysis Batch: 14759

Client Sample ID: CRA-1A
 Prep Type: Total/NA
 Prep Batch: 14321

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Antimony	ND		49.3	32.9	F	mg/Kg		67	75 - 125	
Arsenic	3.6		49.3	47.8		mg/Kg		90	75 - 125	
Barium	170		49.3	234		mg/Kg		125	75 - 125	
Beryllium	ND		49.3	45.7		mg/Kg		92	75 - 125	
Cadmium	ND		49.3	43.8		mg/Kg		89	75 - 125	
Chromium	32		49.3	81.5		mg/Kg		100	75 - 125	
Cobalt	9.8		49.3	55.0		mg/Kg		92	75 - 125	
Copper	20		49.3	66.6		mg/Kg		95	75 - 125	
Lead	6.6		49.3	52.0		mg/Kg		92	75 - 125	
Molybdenum	ND		49.3	42.5		mg/Kg		86	75 - 125	
Nickel	30		49.3	77.9		mg/Kg		96	75 - 125	
Selenium	ND		49.3	43.2		mg/Kg		88	75 - 125	
Thallium	ND		49.3	43.1		mg/Kg		88	75 - 125	
Vanadium	35		49.3	89.4		mg/Kg		110	75 - 125	
Zinc	41		49.3	88.0		mg/Kg		96	75 - 125	
Silver	ND		24.6	22.7		mg/Kg		92	75 - 125	

Lab Sample ID: 440-5783-1 MSD
 Matrix: Solid
 Analysis Batch: 14759

Client Sample ID: CRA-1A
 Prep Type: Total/NA
 Prep Batch: 14321

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Antimony	ND		50.0	33.1	F	mg/Kg		66	75 - 125	1	20	
Arsenic	3.6		50.0	49.4		mg/Kg		92	75 - 125	3	20	
Barium	170		50.0	284	F	mg/Kg		221	75 - 125	19	20	
Beryllium	ND		50.0	47.9		mg/Kg		95	75 - 125	5	20	
Cadmium	ND		50.0	46.0		mg/Kg		92	75 - 125	5	20	
Chromium	32		50.0	86.5		mg/Kg		108	75 - 125	6	20	
Cobalt	9.8		50.0	55.1		mg/Kg		91	75 - 125	0	20	
Copper	20		50.0	69.3		mg/Kg		99	75 - 125	4	20	
Lead	6.6		50.0	53.7		mg/Kg		94	75 - 125	3	20	
Molybdenum	ND		50.0	44.6		mg/Kg		89	75 - 125	5	20	
Nickel	30		50.0	79.5		mg/Kg		98	75 - 125	2	20	
Selenium	ND		50.0	44.5		mg/Kg		89	75 - 125	3	20	
Thallium	ND		50.0	45.2		mg/Kg		90	75 - 125	5	20	
Vanadium	35		50.0	97.0		mg/Kg		123	75 - 125	8	20	
Zinc	41		50.0	92.1		mg/Kg		103	75 - 125	5	20	
Silver	ND		25.0	23.7		mg/Kg		95	75 - 125	4	20	

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-14674/1-A
 Matrix: Solid
 Analysis Batch: 14988

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 14674

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.020		mg/Kg		03/21/12 14:48	03/22/12 14:57	1

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

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

Lab Sample ID: LCS 440-14674/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 14988				Prep Batch: 14674						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits			
Mercury	0.800	0.817		mg/Kg	-	102	80 - 120			

Lab Sample ID: 440-5959-B-1-B MS				Client Sample ID: Matrix Spike						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 14988				Prep Batch: 14674						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Mercury	0.023		0.784	0.801		mg/Kg	-	99	70 - 130	

Lab Sample ID: 440-5959-B-1-C MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 14988				Prep Batch: 14674							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.023		0.784	0.813		mg/Kg	-	101	70 - 130	1	20

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

GC/MS VOA

Analysis Batch: 14842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5783-1	CRA-1A	Total/NA	Solid	8260B	
440-5783-1 MS	CRA-1A	Total/NA	Solid	8260B	
440-5783-1 MSD	CRA-1A	Total/NA	Solid	8260B	
LCS 440-14842/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-14842/4	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 14843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5783-1	CRA-1A	Total/NA	Solid	8260B/CA_LUFT MS	
440-5783-1 MS	CRA-1A	Total/NA	Solid	8260B/CA_LUFT MS	
440-5783-1 MSD	CRA-1A	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-14843/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-14843/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 15216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5783-1	CRA-1A	Total/NA	Solid	CA LUFT	
440-6337-A-1-A MS	Matrix Spike	Total/NA	Solid	CA LUFT	
440-6337-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	CA LUFT	
LCS 440-15216/2-A	Lab Control Sample	Total/NA	Solid	CA LUFT	
MB 440-15216/1-A	Method Blank	Total/NA	Solid	CA LUFT	

Analysis Batch: 15234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-6337-A-1-A MS	Matrix Spike	Total/NA	Solid	8015B	15216
440-6337-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	15216
LCS 440-15216/2-A	Lab Control Sample	Total/NA	Solid	8015B	15216
MB 440-15216/1-A	Method Blank	Total/NA	Solid	8015B	15216

Analysis Batch: 15235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5783-1	CRA-1A	Total/NA	Solid	8015B	15216

Metals

Prep Batch: 14321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5783-1	CRA-1A	Total/NA	Solid	3050B	
440-5783-1 MS	CRA-1A	Total/NA	Solid	3050B	
440-5783-1 MSD	CRA-1A	Total/NA	Solid	3050B	
LCS 440-14321/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-14321/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 14674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5783-1	CRA-1A	Total/NA	Solid	7471A	

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

Metals (Continued)

Prep Batch: 14674 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5959-B-1-B MS	Matrix Spike	Total/NA	Solid	7471A	
440-5959-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
LCS 440-14674/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-14674/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 14759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5783-1	CRA-1A	Total/NA	Solid	6010B	14321
440-5783-1 MS	CRA-1A	Total/NA	Solid	6010B	14321
440-5783-1 MSD	CRA-1A	Total/NA	Solid	6010B	14321
LCS 440-14321/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	14321
MB 440-14321/1-A ^5	Method Blank	Total/NA	Solid	6010B	14321

Analysis Batch: 14988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-5783-1	CRA-1A	Total/NA	Solid	7471A	14674
440-5959-B-1-B MS	Matrix Spike	Total/NA	Solid	7471A	14674
440-5959-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	14674
LCS 440-14674/2-A	Lab Control Sample	Total/NA	Solid	7471A	14674
MB 440-14674/1-A	Method Blank	Total/NA	Solid	7471A	14674

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard; Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4895 Hacienda Dr., Dublin

TestAmerica Job ID: 440-5783-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	California	State Program	9	2706
TestAmerica Irvine	Guam	State Program	9	Cert. No. 10.001r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

440-5783



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

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

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 240695

INCIDENT # (ENV SERVICES): _____

PO #: _____ **SAP #:** _____

CHECK IF NO INCIDENT # APPLIES:

DATE: 3-15-12

PAGE: 1 of 2

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer

TELEPHONE: 510-420-3339 **FAX:** 510-420-9170 **E-MAIL:** pschaefer@croworld.com

SITE ADDRESS: Street and City: 4895 Hacienda Drive, 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.: 240695-95-11.05

SAMPLER NAME(S) (Print): Scott Lewis

LAB USE ONLY: _____

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS

RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

cc: Derek Eisman, DEisman@croworld.com and Shell.Lab.Billing@croworld.com

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

Call composite sample ID and field point name: CRA-A

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECEIPT C°	REQUESTED ANALYSIS															Container PID Readings or Laboratory Notes				
	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)		SVOCs (8270C)	VOCs (8260)	PCBs (8082)	
	X	X	X											X	X					Please call composite sample CRA-A

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.
	DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER	
CRA-1A	3/15	0840	SO						1

Relinquished by: (Signature) <i>Scott Lewis</i>	Received by: (Signature) <i>Heidi Mayla</i>	Date: 3-16-12	Time: 11:45
Relinquished by: (Signature) <i>Heidi Mayla</i>	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) <i>Margaret Saler</i>	Date: 3/17/12	Time: 9:35

3/30/2012

2.62 / 1.90

(CS)

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-5783-1

Login Number: 5783

List Source: TestAmerica Irvine

List Number: 1

Creator: Salas, Margarita

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