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DATE:	Decem	ber 21, 2	012	Refe	RENCE No.:	060364 3750 International Boulevard,
				Proj	ECT NAME:	Oakland
То:	Jerry W	/ickham				
	Alame	da Coun	ty Environment	al Health		
	1131 H	arbor Ba	y Parkway, Sui	te 250		RECEIVED
_			ornia 94502-657			By Alameda County Environmental Health at 3:40 pm, Jan 17, 2013
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COMMEN If you have (510) 420-3	e any qu	uestions	regarding the co	ontents of t	his docume	nt, please call Peter Schaefer at
Copy to:		Denis Bı	own, Shell Oil I	Products US	6 (electronic	copy)
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		Clint Me	ercer, SC Fuels (lessee), 1800	0 West Kate	lla Avenue, Orange, CA 92863
			athews, Oaklan Suite 3341, Oak		rnia 94612-	\wedge
Completed	ł by: _	Peter Scl	naefer		_ Signed:	Jehn Schafe
Filing: C	Correspo	ndence F	ile			



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.1.brown@shell.com

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

Re:

Shell-branded Service Station 3750 International Boulevard

Oakland, California SAP Code 135682

Dear Mr. Wickham:

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

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

Sincerely,

Denis L. Brown

Senior Program Manager



DISPENSER OVER-EXCAVATION REPORT

SHELL-BRANDED SERVICE STATION 3750 INTERNATIONAL BOULEVARD OAKLAND, CALIFORNIA

SAP CODE

135675

Prepared by: Conestoga-Rovers & Associates

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EXECUTIVE SUMMARY

- One dispenser over-excavation was conducted following receipt of analytical results from fuel-system replacement activities conducted by the property owner.
- No TPHg or BTEX was detected in soil samples collected from the dispenser over-excavation pit.
- Based on the data from the fuel system replacement investigation and historical soil data, CRA believes that no further environmental investigation is warranted.

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 dispenser over-excavation at the referenced site. The dispenser over-excavation was conducted following receipt of analytical results from fuel-system replacement activities conducted by the property owner.

2.0 SITE DESCRIPTION

The subject site is a Shell-branded service station located on the northern corner of International Boulevard and 38th Avenue in Oakland, California (Figure 1). The area surrounding the site is both commercial and residential. The service station layout included four dispensers, three gasoline underground storage tanks (USTs), and a station building (Figure 2).

A summary of previous work performed at the site and additional background information is contained in Appendix A.

3.0 SAMPLING ACTIVITIES AND SAMPLE ANALYSES

On August 9, 2012, Musco Excavators, Inc. of Santa Rosa, California over-excavated beneath a product dispenser (Figure 2).

3.1 PERSONNEL PRESENT

Cristina Arganbright, Staff Scientist, CRA

3.2 SAMPLING DATE

August 9, 2012

3.3 <u>DISPENSER OVER-EXCAVATION SOIL SAMPLING</u>

CRA collected four soil samples from the sidewalls of the dispenser over-excavation pit and one soil sample from the center of the pit at a depth of 4 feet below grade (fbg) using

a backhoe. Figure 2 shows the sampling locations. The soil was removed from the backhoe and packed into clean stainless steel sample tubes; the tube ends were covered with Teflon® tape and plastic end caps. Soil samples were labeled, placed into a cooler with ice, entered onto a chain-of-custody record, and transported to a California-certified analytical laboratory.

3.4 CHEMICAL ANALYSES

State-certified laboratory TestAmerica Laboratories, Inc. of Irvine, California analyzed the soil samples for total petroleum hydrocarbons as gasoline (TPHg), and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

4.0 ANALYTICAL RESULTS

Figure 2 and Table 1 summarize soil analytical results. No TPHg or BTEX was detected in soil samples collected from the dispenser over-excavation pit. Appendix B presents the laboratory analytical reports.

5.0 **DISCUSSION**

Soil sample locations and analytical results from the fuel system replacement activities are also presented in Figure 2 and Table 1, respectively. With the exception of TPHg and BTEX in sample D-3, which was subsequently over-excavated, none of the TPHg, BTEX, fuel oxygenate, lead scavenger, or total lead detections in samples collected during the fuel system replacement activities exceed San Francisco Bay Regional Water Quality Control Board environmental screening levels (ESLs) for shallow or deep soils at a site with commercial land use where groundwater is not a potential source of drinking water¹.

The maximum concentrations of constituents of concern (COCs) detected during the fuel system replacement activities and from previous investigations are shown in the following table. Detections in sample D-3 are not included because the area was subsequently over-excavated.

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

	TABLE A		
COCs	Maximum Soil Concentration from August 2012 Fuel System	Previous Historical Maximum Soil	Shallow Soil Commercial ESL
	Replacement Sampling	Concentrations	
TPHg	150 mg/kg	130 mg/kg	180 mg/kg
Benzene	0.012 mg/kg	0.032 mg/kg	0.27 mg/kg
Toluene	1.3 mg/kg	0.55 mg/kg	9.3 mg/kg
Ethylbenzene	0.35 mg/kg	0.73 mg/kg	4.7 mg/kg
Total Xylenes	1.9 mg/kg	2.0 mg/kg	11 mg/kg
Total Lead	14 mg/kg	11.6 mg/kg	750 mg/kg

Note: mg/kg = Milligrams per kilogram.

The comparison in Table A demonstrates that TPHg, BTEX, and total lead concentrations are generally within historical ranges observed during previous investigations and that all current and historical concentrations are below ESLs. The slightly higher detections of TPHg, toluene, and total lead during this investigation may be attributable to the samples being collected from directly beneath the fuel system instead of adjacent to the system as in previous investigations.

Based on the data from the fuel system replacement investigation and historical soil data, CRA believes that no further environmental investigation is warranted.

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

Peter Schaefer, CHG, CEG

PETER L SCHAEFER NO. 5612

M. Mag

Mike Murphy

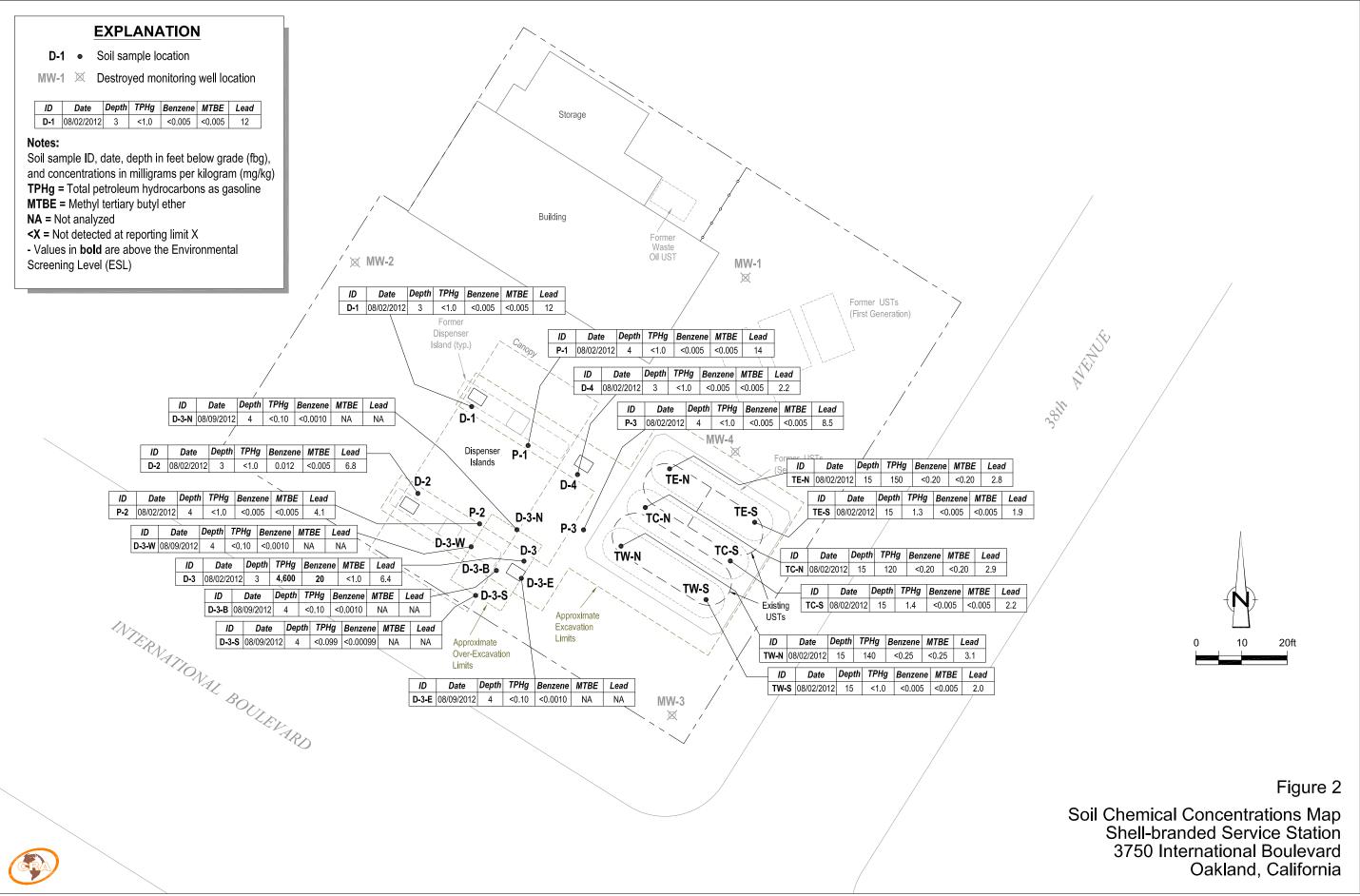
FIGURES

Shell-branded Service Station

3750 International Boulevard Oakland, California



Vicinity Map



TABLE

TABLE 1 Page 1 of 2

SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 3750 INTERNATIONAL BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2- DCA (mg/kg)	EDB (mg/kg)	Total Lead (mg/kg)
D-1	8/2/2012	3	<1.0	<0.005	<0.005	<0.005	<0.010	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	12
D-2	8/2/2012	3	<1.0	0.012	0.062	0.011	0.16	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	6.8
D-3	8/2/2012	3	4,600	20	170	70	290	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	6.4
D-3-B	8/9/2012	4	< 0.10	< 0.0010	< 0.0010	< 0.0010	< 0.0020								
D-3-N	8/9/2012	4	< 0.10	< 0.0010	< 0.0010	< 0.0010	< 0.0020								
D-3-E	8/9/2012	4	< 0.10	< 0.0010	< 0.0010	< 0.0010	< 0.0020								
D-3-S	8/9/2012	4	< 0.099	< 0.0099	< 0.0099	< 0.0099	< 0.0020								
D-3-W	8/9/2012	4	<0.10	<0.0010	<0.0010	<0.0010	<0.0020								
D-4	8/2/2012	3	<1.0	<0.005	<0.005	<0.005	<0.010	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	2.2
TW-N	8/2/2012	15	140	< 0.25	1.3	0.35	1.9	< 0.25	<2.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	3.1
TW-S	8/2/2012	15	<1.0	<0.005	<0.005	<0.005	<0.010	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	2.0
TC-N	8/2/2012	15	120	<0.20	<0.20	<0.20	<0.40	<0.20	<2.0	<0.20	<0.20	<0.20	<0.20	<0.20	2.9
TC-S	8/2/2012	15	1.4	<0.005	<0.005	<0.005	<0.010	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	2.2
TE-N	8/2/2012	15	150	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	<2.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.8
TE-S	8/2/2012	15	1.3	<0.005	<0.005	<0.005	<0.010	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	1.9
P-1	8/2/2012	4	<1.0	<0.005	<0.005	<0.005	<0.010	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	14
P-2	8/2/2012	4	<1.0	<0.005	<0.005	<0.005	<0.010	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	4.1
P-3	8/2/2012	4	<1.0	<0.005	<0.005	<0.005	<0.010	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	8.5
Shallou	o Soil (≤10 fb	g) ESL a	: 180	0.27	9.3	4.7	11	8.4	110	NA	NA	NA	0.48	0.044	750
Deep So	oil (>10 fbg) l	ESL ^a :	180	2.0	9.3	4.7	11	8.4	110	NA	NA	NA	1.8	1.000	750

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TABLE 1 Page 2 of 2

SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 3750 INTERNATIONAL BOULEVARD, OAKLAND, CALIFORNIA

Notes:

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

Benzene, toluene, ethylbenzene, and 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

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

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

Total Lead analyzed by EPA Method 6010B

fbg = Feet below grade

mg/kg = Milligrams per kilogram

<x = Not detected at reporting limit x

--- = Not analyzed

ESL = Environmental screening level

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

Shading indicates soil sample location was subsequently excavated; results are not representative of residual soil.

a = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is not a source of drinking water (Tables B and D 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

SITE HISTORY

SITE HISTORY

1981 Tank Replacement: Shell installed three fiberglass underground storage tanks (USTs) which apparently replaced three former steel USTs. No information is available concerning the tank removal.

1986 Waste Oil UST Replacement: In November 1986, Petroleum Engineering of Santa Rosa, California removed a 550-gallon steel waste oil UST and installed a 550-gallon fiberglass waste oil UST. Blaine Technical Services, Inc. of San Jose, California collected a soil sample from the middle of the tank excavation at a depth of 7 feet below grade (fbg) which contained a concentration of 117.4 milligrams per kilogram (mg/kg) of total oil and grease (TOG). Weiss Associates' (WA's) July 18, 1990 Subsurface Investigation report summarized the waste oil UST removal sampling activities.

1990 Subsurface Investigation: In April 1990, WA installed three monitoring wells (MW-1 through MW-3). Soil samples from the well borings contained up to 130 mg/kg total petroleum hydrocarbons as gasoline (TPHg) and 0.032 mg/kg benzene. Total petroleum hydrocarbons as diesel (TPHd), volatile organic compounds, and TOG were not detected in the soil samples. WA's July 18, 1990 Subsurface Investigation report presents investigation details.

1990 Well Survey: WA conducted a well survey which identified an irrigation well located approximately one block east (up- and cross-gradient). No domestic or municipal wells were identified within one-half mile of the site. WA's July 18, 1990 Subsurface Investigation report provides well survey results.

1991 UST Unauthorized Release (Leak)/Contamination Site Report (URR): On February 6, 1991 Shell filed a URR based on the waste oil UST investigation results.

1992 Subsurface Investigation: In June 1992, WA installed groundwater monitoring well MW-4 immediately down gradient of the UST complex. Soil samples from the well boring contained concentrations of TPHg up to 6.4 mg/kg. No benzene was detected in the soil samples. WA's September 8, 1992 Subsurface Investigation report presents investigation details.

1990 to 1996 Groundwater Monitoring: Groundwater monitoring was conducted between 1990 and 1996. Depth to groundwater varied from 6 to 16 fbg. The highest concentration of TPHg detected was 12,000 micrograms per liter (μ g/l) in MW-3 (first quarter 1994), and the highest level of benzene detected was 210 μ g/l in MW-4 (third

quarter 1992). Concentrations in the first quarter of 1996 had dropped to 1,500 μ g/l of TPHg and 4.1 μ g/l of benzene.

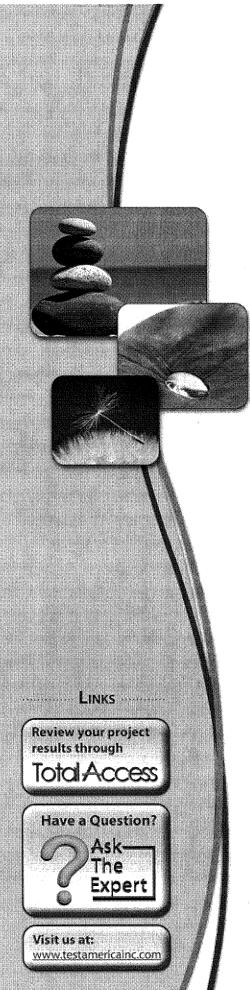
1997 *Environmental Case Closure*: Alameda County Environmental Health's October 3, 1997 letter granted closure of the UST fuel leak case.

2004 *Dispenser Replacement Soil Sampling:* In July 2004 Paradiso Mechanical, Inc. upgraded the facility's fuel system. Cambria Environmental Technology, Inc. (Cambria) collected soil samples from beneath each dispenser. No TPHg, benzene, toluene, ethylbenzene, xylenes, or methyl tertiary-butyl ether (MTBE) was detected in the soil samples. Cambria's November 23, 2004 *Dispenser Upgrade Sampling Report* details the dispenser sampling activities and results.

2006 Waste Oil UST Removal: In May 2006, Wayne Perry, Inc. removed one 550-gallon dual-wall fiberglass waste oil UST. One soil sample was collected from the excavation and contained concentrations up to 28 mg/kg TOG and 7.5 mg/kg TPHd. Based on these results Cambria filed a URR on June 6, 2006. Cambria's July 31, 2006 Underground Storage Tank Removal Report presents UST removal details and sampling results.

2008 Phase II Environmental Site Assessment: In August 2008, Delta Consultants, Inc. (Delta) drilled five borings to collect grab groundwater samples. Three of the five samples contained concentrations of TPHg ranging from 180 to 3,900 μ g/l. Benzene (17 μ g/l) and MTBE (5.8 μ g/l) were each detected in one grab groundwater sample. Delta's October 1, 2008 Phase II Environmental Site Assessment report provides investigation details.

APPENDIX B LABORATORY 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: 440-20151-1

Client Project/Site: 3750 International Blvd., Oakland

For:

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

Attn: Peter Schaefer

Philip Samule

Authorized for release by: 8/22/2012 10:53:29 AM

Philip Sanelle Project Manager I philip.sanelle@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.

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

TestAmerica Job ID: 440-20151-1

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

TestAmerica Job ID: 440-20151-1

Lab Sample ID	Client Sample ID	Matrix	Collected Re	eceived
440-20151-1	D-3-B	Solid	08/09/12 09:30 08/1	1/12 09:40
440-20151-2	D-3-N	Solid	08/09/12 09:45 08/1	1/12 09:40
440-20151-3	D-3-E	Solid	08/09/12 09:50 08/11	1/12 09:40
440-20151-4	D-3-S	Solid	08/09/12 09:55 08/1	1/12 09:40
440-20151-5	D-3-W	Solid	08/09/12 10:00 08/1	1/12 09:40

3





















Case Narrative

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland TestAmerica Job ID: 440-20151-1























Laboratory: TestAmerica Irvine

Job ID: 440-20151-1

Narrative

Job Narrative 440-20151-1

Comments

No additional comments.

Receipt

The samples were received on 8/11/2012 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7° C.

GC/MS VOA

Method(s) 8260B/CA_LUFTMS: Internal standard responses were outside of acceptance limits for the following sample(s): D-3-W (440-20151-5). The sample(s) shows evidence of matrix interference.

Method(s) 8260B/CA_LUFTMS: Surrogate recovery for the following sample(s) was outside control limits: D-3-W (440-20151-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B/CA_LUFTMS: Internal standard responses were outside of acceptance limits for the following sample(s): D-3-N (440-20151-2). The sample(s) shows evidence of matrix interference.

Method(s) 8260B/CA_LUFTMS: Surrogate recovery for the following sample(s) was outside control limits: D-3-E (440-20151-3), D-3-N (440-20151-2), D-3-S (440-20151-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: D-3-W (440-20151-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: D-3-E (440-20151-3), D-3-N (440-20151-2), D-3-S (440-20151-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): D-3-N (440-20151-2). The sample(s) shows evidence of matrix interference.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

Client Sample ID: D-3-B

Date Collected: 08/09/12 09:30

Date Received: 08/11/12 09:40

TestAmerica Job ID: 440-20151-1

Lab Sample ID: 440-20151-1 Matrix: Solid

Method: 8260B/CA LUFTMS - Vo	olatile Organic	Compound	s by GC/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/16/12 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		80 _ 125			-		08/16/12 03:24	1
4-Bromofluorobenzene (Surr)	99		80 120					08/16/12 03:24	1

Toluene-d8 (Surr) 106 80 - 120 08/16/12 03:24 Method: 8260B - Volatile Organic Compounds (GC/MS)

Compounds ((GC/NS)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.0010		mg/Kg	-		08/16/12 03:24	1
ND		0.0010		mg/Kg			08/16/12 03:24	1
ND		0.0010		mg/Kg			08/16/12 03:24	1
ND		0.0020		mg/Kg			08/16/12 03:24	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
99		80 - 120			-		08/16/12 03:24	1
111		80 - 125					08/16/12 03:24	1
	Result ND ND ND ND %Recovery	ND ND WRecovery Qualifier 99	Result Qualifier RL ND 0.0010 ND 0.0010 ND 0.0020 %Recovery Qualifier Limits 99 80 - 120	Result Qualifier RL MDL ND 0.0010 0.0010 ND 0.0010 0.0020 ND 0.0020 0.0020 %Recovery Qualifier Limits 99 80 - 120	Result Qualifier RL MDL Unit ND 0.0010 mg/Kg ND 0.0010 mg/Kg ND 0.0020 mg/Kg ND 0.0020 mg/Kg %Recovery Qualifier Limits 99 80 - 120	Result ND Qualifier RL MDL Unit D ND 0.0010 mg/Kg ND 0.0010 mg/Kg ND 0.0020 mg/Kg %Recovery Qualifier Limits 99 80 - 120	Result Qualifier RL MDL Unit D Prepared ND 0.0010 mg/Kg mg/Kg </td <td>Result Qualifier RL MDL Unit D Prepared Analyzed ND 0.0010 mg/Kg 08/16/12 03:24 ND 0.0010 mg/Kg 08/16/12 03:24 ND 0.0010 mg/Kg 08/16/12 03:24 ND 0.0020 mg/Kg 08/16/12 03:24 %Recovery Qualifier Limits Prepared Analyzed 99 80 - 120 08/16/12 03:24</td>	Result Qualifier RL MDL Unit D Prepared Analyzed ND 0.0010 mg/Kg 08/16/12 03:24 ND 0.0010 mg/Kg 08/16/12 03:24 ND 0.0010 mg/Kg 08/16/12 03:24 ND 0.0020 mg/Kg 08/16/12 03:24 %Recovery Qualifier Limits Prepared Analyzed 99 80 - 120 08/16/12 03:24

Client Sample ID: D-3-N Lab Sample ID: 440-20151-2

80 - 120

106

Matrix: Solid

08/16/12 03:24

Date Collected: 08/09/12 09:45 Date Received: 08/11/12 09:40

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND	****	0.10		mg/Kg			08/16/12 17:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 125			_		08/16/12 17:56	1
4-Bromofluorobenzene (Surr)	45	X	80 - 120					08/16/12 17:56	1
Toluene-d8 (Surr)	1	X	80 - 120					08/16/12 17:56	
Benzene	ND		0.0010		mg/Kg			08/16/12 17:56	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Delizario			0.0010		mg/Kg			08/16/12 17:56	
Teluene									
	ND								•
	ND ND		0.0010		mg/Kg			08/16/12 17:56	
Ethylbenzene									
Toluene Ethylbenzene Xylenes, Total Surrogate	ND	Qualifier	0.0010		mg/Kg		Prepared	08/16/12 17:56	Dil Fa
Ethylbenzene Xylenes, Total Surrogate	ND ND %Recovery	Qualifier X	0.0010		mg/Kg	-	Prepared	08/16/12 17:56 08/16/12 17:56	Dil Fac
Ethylbenzene Xylenes, Total	ND ND %Recovery		0.0010 0.0020 <i>Limits</i>		mg/Kg	-	Prepared	08/16/12 17:56 08/16/12 17:56 Analyzed	Dil Fac

Lab Sample ID: 440-20151-3

Matrix: Solid

Date Collected: 08/09/12 09:50 Date Received: 08/11/12 09:40

Client Sample ID: D-3-E

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS Result Qualifier Analyte MDL Unit D Prepared Analyzed Dil Fac Volatile Fuel Hydrocarbons (C4-C12) ND 0.10 08/16/12 18:25 mg/Kg

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland TestAmerica Job ID: 440-20151-1

Client Sample ID: D-3-E

Date Collected: 08/09/12 09:50

Lab Sample ID: 440-20151-3

Matrix: Solid

Date Received: 08/11/12 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 125	08/16/12 18:25	1
4-Bromofluorobenzene (Surr)	78	X	80 - 120	08/16/12 18:25	1
Toluene-d8 (Surr)	80		80 - 120	08/16/12 18:25	1

Toluene-d8 (Surr) 	80		80 - 120					08/16/12 18:25	1
– Method: 8260B - Volatile Orga	nic Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/16/12 18:25	1
Toluene	ND		0.0010		mg/Kg			08/16/12 18:25	1
Ethylbenzene	ND		0.0010		mg/Kg			08/16/12 18:25	1
Xylenes, Total	ND		0.0020		mg/Kg			08/16/12 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78	X	80 - 120			-		08/16/12 18:25	1
Dibromofluoromethane (Surr)	97		80 _ 125					08/16/12 18:25	1
Toluene-d8 (Surr)	80		80 - 120					08/16/12 18:25	1

Client Sample ID: D-3-S Lab Sample ID: 440-20151-4 Date Collected: 08/09/12 09:55 Matrix: Solid

Date Received: 08/11/12 09:40

	 Method: 8260B/CA_LUFTMS - Vol	atile Organic	Compound	ds by GC/MS						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
- Commonweal	Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/16/12 18:54	1
-	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

l	Surrogate	%Recovery	Qualifier	Limits	Prepared Ana	alyzed	Dil Fac	
ŀ	Dibromofluoromethane (Surr)	105		80 - 125	08/16/	/12 18:54	1	
l	4-Bromofluorobenzene (Surr)	71	X	80 - 120	08/16/	/12 18:54	1	
	Toluene-d8 (Surr) -	55	X	80 - 120	08/16/	/12 18:54	1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/16/12 18:54	1
Toluene	ND		0.00099		mg/Kg			08/16/12 18:54	1
Ethylbenzene	ND		0.00099		mg/Kg			08/16/12 18:54	1
Xylenes, Total	ND		0.0020		mg/Kg			08/16/12 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4 December of the section of Court	74	V	00 100					0040404054	

ı	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
	4-Bromofluorobenzene (Surr)	71	X	80 - 120		08/16/12 18:54	1	
	Dibromofluoromethane (Surr)	105		80 - 125		08/16/12 18:54	1	
	Toluene-d8 (Surr)	55	X	80 - 120		08/16/12 18:54	1	

Client Sample ID: D-3-W Lab Sample ID: 440-20151-5 Date Collected: 08/09/12 10:00 Matrix: Solid

Date Received: 08/11/12 09:40

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10	mg/Kg			08/17/12 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 125				08/17/12 17:55	1
4-Bromofluorobenzene (Surr)	60	X	80 ₋ 120				08/17/12 17:55	1
4-Bromondorobenzene (Sun)	00	,	00 - 120				00/11/12 11100	•

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

Client Sample ID: D-3-W

Date Collected: 08/09/12 10:00

Date Received: 08/11/12 09:40

TestAmerica Job ID: 440-20151-1

Lab Sample ID: 440-20151-5

Matrix: Solid





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Method: 8260B - Volatile Orga	nic Compounds ((GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			. 08/17/12 17:55	1
Toluene	ND		0.0010		mg/Kg			08/17/12 17:55	1
Ethylbenzene	ND		0.0010		mg/Kg			08/17/12 17:55	1
Xylenes, Total	ND		0.0020		mg/Kg			08/17/12 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	X	80 - 120					08/17/12 17:55	1
Dibromofluoromethane (Surr)	97		80 - 125					08/17/12 17:55	1
Toluene-d8 (Surr)	18	X	80 - 120					08/17/12 17:55	1











Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland TestAmerica Job ID: 440-20151-1

Lab Sample ID: 440-20151-1

Lab Sample ID: 440-20151-2

Lab Sample ID: 440-20151-3

Lab Sample ID: 440-20151-4

Lab Sample ID: 440-20151-5

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid







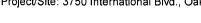












Client Sample ID: D-3-B

Date Collected: 08/09/12 09:30 Date Received: 08/11/12 09:40

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Factor Type Run Amount Amount Number or Analyzed Analyst Lab Analysis Total/NA 8260B 1 4.96 g 10 mL 45547 08/16/12 03:24 RM TAL IRV Total/NA Analysis 8260B/CA_LUFTMS 1 10 mL 45548 08/16/12 03:24 4.96 g TAL IRV

Client Sample ID: D-3-N Date Collected: 08/09/12 09:45

Date Received: 08/11/12 09:40

Batch Batch Dil Initial Final Batch Prepared Prep Type Type Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis 8260B 5 g 08/16/12 17:56 1 10 mL 45688 NΑ TAL IRV Total/NA Analysis 8260B/CA_LUFTMS 10 mL 1 5 g 45689 08/16/12 17:56 SS TAL IRV

Client Sample ID: D-3-E

Date Collected: 08/09/12 09:50

Date Received: 08/11/12 09:40

Date Neceived. Voi	11/12 05.	+0								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	45688	08/16/12 18:25	NA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.01 g	10 mL	45689	08/16/12 18:25	SS	TAL IRV

Client Sample ID: D-3-S

Date Collected: 08/09/12 09:55 Date Received: 08/11/12 09:40

Date Neceived. 00/	11/12 05.	+0								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	45688	08/16/12 18:54	NA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.05 g	10 mL	45689	08/16/12 18:54	SS	TAL IRV

Client Sample ID: D-3-W Date Collected: 08/09/12 10:00

Date Received: 08/11/12 09:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	45688	08/16/12 18:54	NA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.05 g	10 mL	45689	08/16/12 18:54	SS	TAL IRV

ſ											
		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
İ	Total/NA	Analysis	8260B		1	5.01 g	10 mL	46006	08/17/12 17:55	AT	TAL IRV
	Total/NA	Analysis	8260B/CA_LUFTMS		1	5.01 g	10 mL	46007	08/17/12 17:55	AT	TAL IRV

Laboratory References:

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

RL

0.0010

0.0010

0.0010

0.0020

Limits

80 - 120

80 - 125

80 - 120

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

Lab Sample ID: MB 440-45547/4

Matrix: Solid

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surrogate

Toluene-d8 (Surr)

Matrix: Solid

Analyte Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene

Analysis Batch: 45547

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Analysis Batch: 45547

Lab Sample ID: LCS 440-45547/5

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

мв мв

Qualifier

Qualifier

Result

ND

ND

ND

ND

98

105

104

%Recovery

MB MB

TestAmerica Job ID: 440-20151-1

Client Sample ID: Method Blank

Analyzed

08/15/12 20:38

08/15/12 20:38

08/15/12 20:38

08/15/12 20:38

Analyzed

08/15/12 20:38

08/15/12 20:38

08/15/12 20:38

Prepared

Prepared

Prep Type: Total/NA





-0	















Dil Fac

Dil Fac

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

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.0500	0.0539		mg/Kg		108	65 - 120	
0.0500	0.0522		mg/Kg		104	70 - 125	
0.0500	0.0518		mg/Kg		104	70 - 125	
 0.100	0.104		mg/Kg		104	70 - 125	
0.0500	0.0511		mg/Kg		102	70 - 125	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	113		80 - 125
Toluene-d8 (Surr)	110		80 - 120

Lab Sample ID: 440-20130-A-1 MS Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Total/NA Analysis Ratch: 45547

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.0504	0.0529	***************************************	mg/Kg		105	65 - 130	
Toluene	ND		0.0504	0.0525		mg/Kg		104	70 - 130	
Ethylbenzene	ND		0.0504	0.0516		mg/Kg		102	70 - 135	
m,p-Xylene	ND		0.101	0.103		mg/Kg		102	70 - 130	
o-Xylene	ND		0.0504	0.0511		mg/Kg		101	65 - 130	
	MS	MS								

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	**************************************	80 - 120
Dibromofluoromethane (Surr)	105		80 - 125
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: 440-20130-A-1 MSD Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Total/NA Analysis Batch: 45547 Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added %Rec RPD Limit Result Qualifier Unit Limits Benzene ND 0.0499 0.0530 20 mg/Kg 106 65 - 130 Toluene ND 0.0499 0.0519 70 - 130 mg/Kg 104 20

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

TestAmerica Job ID: 440-20151-1

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

Lab Sample ID: 440-20130-A-1 M	SD		Client Sample ID: Matrix Spike	Duplicate
Matrix: Solid			Prep Type	: Total/NA
Analysis Batch: 45547		 		

,, o.c. 2 a.c 120	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	ND		0.0499	0.0526		mg/Kg		105	70 - 135	2	25
m,p-Xylene	ND		0.0998	0.105		mg/Kg		106	70 - 130	2	25
o-Xylene	ND		0.0499	0.0516		mg/Kg		103	65 _ 130	1	25

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	109		80 - 125
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: MB 440-45688/4

Matrix: Solid

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

Analysis Batch: 45688

WB	мв						
Result	Qualifier	RL MD	L Unit	D	Prepared	Analyzed	Dil Fac
ND	0.0	0010	mg/Kg			08/16/12 09:37	1
ND	0.0	0010	mg/Kg			08/16/12 09:37	1
ND	0.0	0010	mg/Kg			08/16/12 09:37	1
ND	0.0	0020	mg/Kg			08/16/12 09:37	1
	Result ND ND ND	ND 0.0 ND 0.0	Result Qualifier RL ME ND 0.0010 ND 0.0010 ND 0.0010	Result Qualifier RL MDL Unit ND 0.0010 mg/Kg ND 0.0010 mg/Kg ND 0.0010 mg/Kg	Result Qualifier RL MDL Unit D ND 0.0010 mg/Kg ND 0.0010 mg/Kg ND 0.0010 mg/Kg	Result Qualifier RL MDL Unit D Prepared ND 0.0010 mg/Kg ND 0.0010 mg/Kg ND 0.0010 mg/Kg	Result Qualifier RL MDL Unit D Prepared Analyzed ND 0.0010 mg/Kg 08/16/12 09:37 ND 0.0010 mg/Kg 08/16/12 09:37 ND 0.0010 mg/Kg 08/16/12 09:37

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		08/16/12 09:37	1
Dibromofluoromethane (Surr)	110		80 ₋ 125		08/16/12 09:37	1
Toluene-d8 (Surr)	108		80 - 120		08/16/12 09:37	1

Lab Sample ID: LCS 440-45688/5

Matrix: Solid

Analysis Batch: 45688

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.0553		mg/Kg		111	65 - 120	
Toluene	0.0500	0.0539		mg/Kg		108	70 - 125	
Ethylbenzene	0.0500	0.0514		mg/Kg		103	70 - 125	
m,p-Xylene	0.100	0.103		mg/Kg		103	70 - 125	
o-Xylene	0.0500	0.0507		mg/Kg		101	70 - 125	

	LCS L	CS	
Surrogate	%Recovery Q	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	109		80 ₋ 125
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: 440-20349-A-1 MS

Matrix: Solid

Analysis Batch: 45688

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.0499	0.0566		mg/Kg		113	65 - 130	
Toluene	ND		0.0499	0.0563		mg/Kg		113	70 - 130	
Ethylbenzene	ND		0.0499	0.0569		mg/Kg		114	70 - 135	
m,p-Xylene	ND		0.0998	0.113		mg/Kg		113	70 - 130	

MS MS

0.0555

Result Qualifier

Unit

mg/Kg

Spike

Added

80 - 120

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland TestAmerica Job ID: 440-20151-1

%Rec.

Limits

Client Sample ID: Matrix Spike Duplicate

65 - 130

%Rec

Prep Type: Total/NA





Client Sample ID: Matrix Spike	





















Prep Type:	Total/NA	
Rec.	RPD	





Sample Sample

105

Result Qualifier

Matrix: Solid

Analyte

Analysis Batch: 45688

o-Xylene	ND		0.0499
	мѕ	мѕ	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	102		80 - 125

Lab Sample ID: 440-20349-A-1 MSD

Matrix: Solid

Toluene-d8 (Surr)

Analysis Batch: 45688

,	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND	***************************************	0.0496	0.0585		mg/Kg		118	65 - 130	3	20
Toluene	ND		0.0496	0.0572		mg/Kg		115	70 - 130	2	20
Ethylbenzene	ND		0.0496	0.0601		mg/Kg		121	70 - 135	6	25
m,p-Xylene	ND		0.0992	0.120		mg/Kg		120	70 - 130	5	25
o-Xylene	ND		0.0496	0.0579		mg/Kg		117	65 - 130	4	25

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	99		80 - 125
Toluene-d8 (Surr)	102		80 ₋ 120

Lab Sample ID: MB 440-46006/4

Matrix: Solid

Analysis Batch: 46006

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

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/17/12 08:43	1
Toluene	ND		0.0010		mg/Kg			08/17/12 08:43	1
Ethylbenzene	ND		0.0010		mg/Kg			08/17/12 08:43	1
Xylenes, Total	ND		0.0020		ma/Ka			08/17/12 08:43	1

	MB	мв				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		08/17/12 08:43	1
Dibromofluoromethane (Surr)	109		80 - 125		08/17/12 08:43	1
Toluene-d8 (Surr)	107		80 - 120		08/17/12 08:43	1

Lab Sample ID: LCS 440-46006/5	Client Sample ID: Lab Control Sample
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 46006	

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.0552		mg/Kg		110	65 - 120	
Toluene	0.0500	0.0537		mg/Kg		107	70 - 125	
Ethylbenzene	0.0500	0.0518		mg/Kg		104	70 - 125	
m,p-Xylene	0.100	0.104		mg/Kg		104	70 - 125	
o-Xylene	0.0500	0.0518		mg/Kg		104	70 - 125	

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland TestAmerica Job ID: 440-20151-1

Client Sample ID: Matrix Spike

Prep Type: Total/NA



Client Sample ID: Lab Control Sample

108

65 - 130

Prep Type: Total/NA













Lab Sample ID: LCS 440-46006/5

Matrix: Solid

Analysis Batch: 46006

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	112		80 - 125
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: 440-20583-A-5 MS

Matrix: Solid

o-Xylene

Analysis Batch: 46006

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene ND 0.0499 0.0531 mg/Kg 106 65 - 130 Toluene ND 0.0499 0.0522 mg/Kg 105 70 - 130 Ethylbenzene ND 0.0499 0.0557 70 - 135 mg/Kg 112 m,p-Xylene ND 0.0998 0.111 70 - 130 mg/Kg 111

0.0539

mg/Kg

0.0499

	MS N	15	
Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		80 - 120
Dibromofluoromethane (Surr)	97		80 - 125
Toluene-d8 (Surr)	100		80 - 120

ND

Lab Sample ID: 440-20583-A-5 MSD

Matrix: Solid

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Analysis Batch: 46006

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.0500	0.0557		mg/Kg		111	65 - 130	5	20
Toluene	ND		0.0500	0.0541		mg/Kg		108	70 - 130	3	20
Ethylbenzene	ND		0.0500	0.0576		mg/Kg		115	70 - 135	3	25
m,p-Xylene	ND		0.100	0.116		mg/Kg		116	70 - 130	4	25
o-Xylene	ND		0.0500	0.0555		mg/Kg		111	65 - 130	3	25
	MSD	MSD									

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		80 120
Dibromofluoromethane (Surr)	98		80 - 125
Toluene-d8 (Surr)	100		80 - 120

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

Lab Sample ID: MB 440-45548/4 Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA

Analysis Batch: 45548

	MB	МВ						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/15/12 20:38	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105	***************************************	80 - 125					08/15/12 20:38	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/15/12 20:38	1

Limits

Spike

Added

Limits

80 - 125

80 - 120

80 - 120

Spike

Added

3.48

1.00

80 - 120

LCS LCS

MS MS

Qualifier

Result

3.04

0.893

Result Qualifier

Unit

mg/Kg

Unit

mg/Kg

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

Lab Sample ID: MB 440-45548/4

Lab Sample ID: LCS 440-45548/6

Matrix: Solid

Toluene-d8 (Surr)

Matrix: Solid

Surrogate

Analyte

(C4-C12)

Surrogate

Toluene-d8 (Surr)

Matrix: Solid

Analyte

(C4-C12)

Surrogate

Analysis Batch: 45548

Analysis Batch: 45548

Volatile Fuel Hydrocarbons

Dibromofluoromethane (Surr)

4-Bromofluorobenzene (Surr)

Analysis Batch: 45548

Volatile Fuel Hydrocarbons

Lab Sample ID: 440-20130-A-1 MS

TestAmerica Job ID: 440-20151-1

Analyzed

08/15/12 20:38

Client Sample ID: Lab Control Sample

%Rec.

Limits

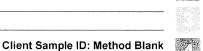
60 - 135

Prep Type: Total/NA

Prep Type: Total/NA

















Dil Fac













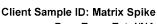












Prep Type: Total/NA

		%Rec.
D	%Rec	Limits
	0.7	

Client Sample ID: Matrix Spike Duplicate

		,
D	%Rec	Limits
 	87	55 - 140

Prepared

%Rec

89

D

MS	MS	
%Recovery	Qualifier	Limits
105		80 - 125
102		80 - 120
107		80 - 120

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

MB MB

Qualifier

%Recovery

LCS LCS

114

106

111

Sample Sample

ND

Result Qualifier

%Recovery

Qualifier

104

Dibromofluoromethane (Surr)	105	-
4-Bromofluorobenzene (Surr)	102	ě
Toluene-d8 (Surr)	107	8

Lab Sample ID: 440-20130-A-1 MSD

Matrix: S

Analysis

pio 151 440 20100 A 1	onent cample is: matrix opine supricate
Solid	Prep Type: Total/NA
is Batch: 45548	

-		Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
-	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
-	Volatile Fuel Hydrocarbons	ND		3.44	3.07		mg/Kg		89	55 _ 140	1	25
	(C4-C12)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	109		80 _ 125
4-Bromofluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	107		80 - 120

_	-	
Dibromofluoromethane (Surr)	109	 80 - 125
4-Bromofluorobenzene (Surr)	103	80 - 120
Toluene-d8 (Surr)	107	80 - 120

Lab Sample ID: MB 440-45689/4 Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Analysis Batch: 45689 мв мв Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Volatile Fuel Hydrocarbons (C4-C12) ND 0.10 mg/Kg 08/16/12 09:37

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland TestAmerica Job ID: 440-20151-1



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

MR MR

Lab Sample ID: MB 440-45689/4

Matrix: Solid

Analysis Batch: 45689

Client Sample	e ID:	Meth	od	Blar	1
F	rep	Type:	To	tal/N	ı

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110	*****	80 - 125		08/16/12 09:37	1
4-Bromofluorobenzene (Surr)	106		80 - 120		08/16/12 09:37	1
Toluene-d8 (Surr)	108		80 - 120		08/16/12 09:37	1
_						

Spike

Added

LCS LCS

0.944

Result Qualifier

Unit

mg/Kg

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

%Rec.

Limits

60 - 135

%Rec

94



Lab Sample ID: LCS 440-45689/6

Matrix: Solid

Analyte

Analysis Batch: 45689

Volatile Fuel Hydrocarbons 1.00 (C4-C12) LCS LCS Surrogate %Recovery Qualifier Limits

July July	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	444,,,,,	
Dibromofluoromethane (Surr)	110		80 - 125
4-Bromofluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	108		80 - 120

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Lab Sample ID: 440-20349-A-1 MS Matrix: Solid

Analysis Batch: 45689

		Sample	Sample	Spike	MS	MS				%Rec.	
-	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Volatile Fuel Hydrocarbons	ND		3.44	3.25		mg/Kg	_	94	55 - 140	
ı	(C4-C12)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 125
4-Bromofluorobenzene (Surr)	96		80 - 120
Toluene-d8 (Surr)	105		80 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 45689

Matrix: Solid

Lab Sample ID: 440-20349-A-1 MSD

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Volatile Fuel Hydrocarbons	ND	-	3.42	3.09		mg/Kg		90	55 - 140	5	25

(C4-C12)

	(3.3.2)			
		MSD	MSD	
	Surrogate	%Recovery	Qualifier	Limits
	Dibromofluoromethane (Surr)	99		80 - 125
	4-Bromofluorobenzene (Surr)	94		80 - 120
L	Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 440-46007/4

Matrix: Solid

Analysis Batch: 46007									
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg	_		08/17/12 08:43	1

Prep Type: Total/NA

Client Sample ID: Method Blank

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland TestAmerica Job ID: 440-20151-1



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

MB MB

Lab Sample ID: MB 440-46007/4

Lab Sample ID: LCS 440-46007/6

Lab Sample ID: 440-20583-A-5 MS

Lab Sample ID: 440-20583-A-5 MSD

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

(C4-C12)

Analysis Batch: 46007

Analysis Batch: 46007

Client	Sample	ID:	Meth	od	Blank
	D-		T	T-4	L-I/NIA

Prep Type: Total/NA

		2				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		80 - 125		08/17/12 08:43	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/17/12 08:43	1
Toluene-d8 (Surr)	107		80 - 120		08/17/12 08:43	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 46007 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit Limits D %Rec 1.00 Volatile Fuel Hydrocarbons 0.955 mg/Kg 95 60 - 135 (C4-C12)

LCS	LCS	
%Recovery	Qualifier	Limits
111		80 _ 125
105		80 - 120
109		80 - 120
	%Recovery 111 105	105

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Allalysis Balcii. 40001											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Volatile Fuel Hydrocarbons	ND		3.44	2.82		mg/Kg		82	55 - 140	-	
(C4-C12)											
	MS	MS									

Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr)	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	97	V	80 - 125
4-Bromofluorobenzene (Surr)	86		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 46007 Sample Sample Spike MSD MSD %Rec. RPD Analyte Added Result Qualifier Result Qualifier RPD Unit D %Rec Limits Limit ND 3.45 85 25 Volatile Fuel Hydrocarbons 2.92 mg/Kg 55 - 140

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	89		80 - 120
Toluene-d8 (Surr)	100		80 - 120

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

Client Sample ID

Matrix Spike Duplicate

Lab Control Sample

Method Blank

Client Sample ID

Matrix Spike Duplicate

Lab Control Sample

Method Blank

Matrix Spike

D-3-B

Matrix Spike

D-3-B

TestAmerica Job ID: 440-20151-1

Method

8260B

8260B

8260B

8260B

8260B

Method

MS

8260B/CA_LUFT

8260B/CA_LUFT

8260B/CA_LUFT

8260B/CA_LUFT

8260B/CA_LUFT









Prep Batch

Prep Batch

















GC/MS VOA

Lab Sample ID

440-20151-1

440-20130-A-1 MS

440-20130-A-1 MSD

LCS 440-45547/5

MB 440-45547/4

Lab Sample ID

440-20151-1

LCS 440-45548/6

MB 440-45548/4

440-20130-A-1 MS

440-20130-A-1 MSD

Analysis Batch: 45548

Analysis Batch: 45547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-20151-2	D-3-N	Total/NA	Solid	8260B	
440-20151-3	D-3-E	Total/NA	Solid	8260B	
440-20151-4	D-3-S	Total/NA	Solid	8260B	
440-20349-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-20349-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
LCS 440-45688/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-45688/4	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 45689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-20151-2	D-3-N	Total/NA	Solid	8260B/CA_LUFT	
				MS	
440-20151-3	D-3-E	Total/NA	Solid	8260B/CA_LUFT	
				MS	
440-20151-4	D-3-S	Total/NA	Solid	8260B/CA_LUFT	
				MS	
440-20349-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT	
				MS	
440-20349-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT	
•				MS	
LCS 440-45689/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT	
				MS	
MB 440-45689/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT	
				MS	

Analysis Batch: 46006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-20151-5	D-3-W	Total/NA	Solid	8260B	
440-20583-A-5 MS	Matrix Spike	Total/NA	Solid	8260B	
440-20583-A-5 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
LCS 440-46006/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-46006/4	Method Blank	Total/NA	Solid	8260B	

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

TestAmerica Job ID: 440-20151-1

GC/MS VOA (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-20151-5	D-3-W	Total/NA	Solid	8260B/CA_LUFT	
				MS	
440-20583-A-5 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT	
				MS	
440-20583-A-5 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT	
				MS	
LCS 440-46007/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT	
				MS	
MB 440-46007/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT	
				MS	





















Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

TestAmerica Job ID: 440-20151-1

[7]

Qualifiers

GC/MS VOA

Qual	ifier	
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Qualifier Description

Χ

TEQ

Surrogate is outside control limits

Toxicity Equivalent Quotient (Dioxin)

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)

Certification Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 3750 International Blvd., Oakland

TestAmerica Job ID: 440-20151-1



















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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	07-31-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-12
USDA	Federal		P330-09-00080	06-06-14

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Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-20151-1

Login Number: 20151

List Source: TestAmerica Irvine

List Number: 1 Creator: Avila, Stephanie

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the 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	

N/A



Residual Chlorine Checked.