CONESTOGA-ROVERS & ASSOCIATES

14496 Sheldon Road, Suite 200, Plymouth, Michigan 48170
Telephone: (734) 453-5123 Fax: (734) 453-5201
www.CRAworld.com

July 17, 2013 Reference No. 017303

Mr. Luther Blackburn
YCUA Industrial Pretreatment Program Supervisor
Ypsilanti Community Utilities Authority
2777 State Road
Ypsilanti, MI 48198-9112

Dear Mr. Blackburn:

Re: Quarterly/Semi-Annual Self-Monitoring Report
Industrial User Permit #RA 12-15
RACER Trust
Company Vehicle Operations Area (CVO)
2901 Tyler Road
Ypsilanti, Michigan

Pursuant to requirements of Industrial User Permit # RA 12-15 (Permit) Part 3 A, the permitee is required to submit self-monitoring reports by the 20th of every month following the reporting period specified in Appendix A of the Permit. Conestoga-Rovers & Associates (CRA) has prepared this self-monitoring report on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust.

This self-monitoring report summarizes the discharge information for the 2013 second quarter (April through June) and first semi-annual (January through June) periods.

During the April through June period, water was discharged on April 25, May 16, and June 20. The water was treated with sodium permanganate prior to each discharge event during this quarter. The semi-annual sampling event (additional sampling parameters) was conducted on May 16th. Attachment A presents a summary of the analytical and flow data for samples collected on all three discharge dates. The laboratory reports, including chains of custody are provided in Attachment B.

CRA will continue to add the sodium permanganate to the equalization tank to reduce the volatile organic compound concentrations. Due to the addition of sodium permanganate, purple colored water may be discharged to the YCUA sewer.

CONESTOGA-ROVERS
& ASSOCIATES

July 17, 2013

Reference No. 017303

Should you have any questions, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Beth Landale

Beth Landale, PE
Project Manager

DB/sp/36/Det.
Encl.

cc: Grant Trigger. RACER
Dave Favero, RACER

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Grant R Trigger

Grant Trigger
Michigan Cleanup Manager
Revitalizing Auto Communities Environmental Response Trust

ATTACHMENT A

YPSILANTI COMMUNITY UTILITIES AUTHORITY
INDUSTRIAL USER PERMIT SELF MONITORING REPORT
REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Facility :	Company Vehicle Operations Area	Reporting Period	
Permit No.:	RA 12-15	Year	2013
Sample Point:	Post Treatment and Prior to discharge into MH6	Quarter	II

Sample Date					4/25/2013	5/16/2013	6/20/2013
Sample Location					Point of Discharge	Point of Discharge	Point of Discharge
Sample ID					WW-17303-042513-NL-001	WW-17303-051613-CT-001 and W-17303-051613-CT-002	WW-17303-062013-SK-001
Parameter	**Upper Limit (mg/l)**	**Monitoring Frequency**	**Reporting Frequency**	**Sample Type**			
Flow (GAL)	Report	Once/Discharge	Monthly/Quarterly	Metered	14,212	16,531	14,960
1,2-Dichloroethane	0.50	Monthly	Quarterly	Grab	0.0049	0.012/ 0.012	0.0072
Trichloroethene	0.50	Monthly	Quarterly	Grab	0.002 U	0.001 U/ 0.001 U	0.002 U
Vinyl Chloride	0.20	Monthly	Quarterly	Grab	0.002 U	0.001 U/ 0.001 U	0.002 U
Polychlorinated Biphenyls	<0.0002**	Monthly	Quarterly	24-Hour Time proportionated Composite***	0.000099 U	0.000095 U/ 0.000095 U	0.000095 U
pH	≥ 5.0 and ≤ 11.0 S.U	Semi-Annual	Semi-Annual	Grab	--	6.90/ 6.93	--
Benzene	0.50	Semi-Annual	Semi-Annual	Grab	--	0.044 E/ 0.046 E	--
Carbon Tetrachloride	0.50	Semi-Annual	Semi-Annual	Grab	--	0.001 U/ 0.001 U	--
Chlorobenzene	100.00	Semi-Annual	Semi-Annual	Grab	--	0.00064 J/ 0.00063 J	--
Chloroform	6.00	Semi-Annual	Semi-Annual	Grab	--	0.0011/ 0.0011	--
1,4-Dichlorobenzene	7.50	Semi-Annual	Semi-Annual	Grab	--	0.0040/ 0.0041	--
1,1-Dichloroethene	0.70	Semi-Annual	Semi-Annual	Grab	--	0.001 U/ 0.001 U	--
Methyl Ethyl Ketone	200.00	Semi-Annual	Semi-Annual	Grab	--	0.015/ 0.015	--
Tetrachloroethene	0.70	Semi-Annual	Semi-Annual	Grab	--	0.001 U/ 0.001 U	--
Total Phenolics	1.00	Semi-Annual	Semi-Annual	Grab	--	0.04 U/ 0.04 U	--

Notes

* As established in Part 4, Section B - Special Conditions: The permitee is required to report the total volume of process discharges to Outfall 001 by the 5th of every month for the previous calendar month. The permitee shall additionally report a summary of individual discharges during the reporting quarter. The quarterly summary shall accompany the permitee's monitoring report submittal.

** Any discharge at or above the level of detection shall be a specific violation of the Permit. For PCB analysis, the sampling and analytical protocol for compliance shall be in accordance with EPA Method 608 employing a detection level of 0.0002 mg/L unless a higher detection limit is appropriate due to sample matrix interference.

***PCBs are not 24 hour composites but time proportionated composites while the system is treating and discharging.

U: Analyte was analyzed for but not detected

E: Result exceeded calibration range

J: Concentration is an approximate value

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-23759-1
Client Project/Site: 17303-T02-018, RACER CVO

For:
Conestoga-Rovers & Associates, Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman

Denise D Heckler

Authorized for release by:
5/13/2013 10:30:01 AM

Denise Heckler, Project Manager II
denise.heckler@testamericainc.com

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.

Table of Contents

Job ID: 240-23759-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-018, RACER CVO

Report Number: 240-23759-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 04/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WW-17303-042513-NL-001 (240-23759-1) and TB-17303-042513-NL-002 (240-23759-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/08/2013.

Sample WW-17303-042513-NL-001 (240-23759-1)[2X] required dilution prior to analysis due to the nature of the sample matrix. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOCs analyses.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample WW-17303-042513-NL-001 (240-23759-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 05/01/2013 and analyzed on 05/03/2013.

Job ID: 240-23759-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-23759-1	WW-17303-042513-NL-001	Water	04/25/13 11:00	04/29/13 09:30
240-23759-2	TB-17303-042513-NL-002	Water	04/25/13 00:00	04/29/13 09:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

Client Sample ID: WW-17303-042513-NL-001 — Lab Sample ID: 240-23759-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	4.9		2.0	0.44	ug/L	2		8260B	Total/NA

Client Sample ID: TB-17303-042513-NL-002 — Lab Sample ID: 240-23759-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

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

Client Sample ID: WW-17303-042513-NL-001
Date Collected: 04/25/13 11:00
Date Received: 04/29/13 09:30

Lab Sample ID: 240-23759-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	**4.9**		2.0	0.44	ug/L			05/08/13 19:53	2
Trichloroethene	2.0	U	2.0	0.34	ug/L			05/08/13 19:53	2
Vinyl chloride	2.0	U	2.0	0.44	ug/L			05/08/13 19:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 129*		*05/08/13 19:53*	*2*
4-Bromofluorobenzene (Surr)	*94*		*66 - 117*		*05/08/13 19:53*	*2*
Toluene-d8 (Surr)	*95*		*74 - 115*		*05/08/13 19:53*	*2*
Dibromofluoromethane (Surr)	*97*		*75 - 121*		*05/08/13 19:53*	*2*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

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

Client Sample ID: TB-17303-042513-NL-002
Date Collected: 04/25/13 00:00
Date Received: 04/29/13 09:30

Lab Sample ID: 240-23759-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/08/13 19:08	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/08/13 19:08	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/08/13 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 129*		*05/08/13 19:08*	*1*
4-Bromofluorobenzene (Surr)	*96*		*66 - 117*		*05/08/13 19:08*	*1*
Toluene-d8 (Surr)	*97*		*74 - 115*		*05/08/13 19:08*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*		*05/08/13 19:08*	*1*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WW-17303-042513-NL-001
Date Collected: 04/25/13 11:00
Date Received: 04/29/13 09:30

Lab Sample ID: 240-23759-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.099	U	0.099	0.044	ug/L		05/01/13 14:07	05/03/13 19:30	1
Aroclor-1221	0.099	U	0.099	0.045	ug/L		05/01/13 14:07	05/03/13 19:30	1
Aroclor-1232	0.099	U	0.099	0.072	ug/L		05/01/13 14:07	05/03/13 19:30	1
Aroclor-1242	0.099	U	0.099	0.059	ug/L		05/01/13 14:07	05/03/13 19:30	1
Aroclor-1248	0.099	U	0.099	0.060	ug/L		05/01/13 14:07	05/03/13 19:30	1
Aroclor-1254	0.099	U	0.099	0.032	ug/L		05/01/13 14:07	05/03/13 19:30	1
Aroclor-1260	0.099	U	0.099	0.038	ug/L		05/01/13 14:07	05/03/13 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 137*	*05/01/13 14:07*	*05/03/13 19:30*	*1*
DCB Decachlorobiphenyl	*14*		*10 - 140*	*05/01/13 14:07*	*05/03/13 19:30*	*1*

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

GC/MS VOA

Analysis Batch: 85102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23759-1	WW-17303-042513-NL-001	Total/NA	Water	8260B	
240-23759-2	TB-17303-042513-NL-002	Total/NA	Water	8260B	
LCS 240-85102/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-85102/6	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 84345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23759-1	WW-17303-042513-NL-001	Total/NA	Water	3510C	
LCS 240-84345/9-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-84345/8-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 84682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23759-1	WW-17303-042513-NL-001	Total/NA	Water	8082	84345
LCS 240-84345/9-A	Lab Control Sample	Total/NA	Water	8082	84345
MB 240-84345/8-A	Method Blank	Total/NA	Water	8082	84345

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

Lab Sample ID: MB 240-85102/6
Matrix: Water
Analysis Batch: 85102

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/08/13 11:09	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/08/13 11:09	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/08/13 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 129*		*05/08/13 11:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*66 - 117*		*05/08/13 11:09*	*1*
Toluene-d8 (Surr)	*98*		*74 - 115*		*05/08/13 11:09*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*		*05/08/13 11:09*	*1*

Lab Sample ID: LCS 240-85102/4
Matrix: Water
Analysis Batch: 85102

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	10.0	9.85		ug/L		98	71 - 127
Trichloroethene	10.0	10.0		ug/L		100	76 - 117
Vinyl chloride	10.0	9.73		ug/L		97	53 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 129*
4-Bromofluorobenzene (Surr)	*98*		*66 - 117*
Toluene-d8 (Surr)	*97*		*74 - 115*
Dibromofluoromethane (Surr)	*98*		*75 - 121*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-84345/8-A
Matrix: Water
Analysis Batch: 84682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		05/01/13 14:07	05/03/13 20:28	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		05/01/13 14:07	05/03/13 20:28	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		05/01/13 14:07	05/03/13 20:28	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		05/01/13 14:07	05/03/13 20:28	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		05/01/13 14:07	05/03/13 20:28	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		05/01/13 14:07	05/03/13 20:28	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		05/01/13 14:07	05/03/13 20:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*35 - 137*	*05/01/13 14:07*	*05/03/13 20:28*	*1*
DCB Decachlorobiphenyl	*24*		*10 - 140*	*05/01/13 14:07*	*05/03/13 20:28*	*1*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-84345/9-A
Matrix: Water
Analysis Batch: 84682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84345

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2.50	2.09		ug/L		84	56 - 130		
Aroclor-1260			2.50	2.10		ug/L		84	43 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*35 - 137*
DCB Decachlorobiphenyl	*50*		*10 - 140*

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(63-129)	(66-117)	(74-115)	(75-121)
240-23759-1	WW-17303-042513-NL-001	95	94	95	97
240-23759-2	TB-17303-042513-NL-002	95	96	97	96
LCS 240-85102/4	Lab Control Sample	93	98	97	98
MB 240-85102/6	Method Blank	97	97	98	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TCX2	DCB2	
Lab Sample ID	Client Sample ID	(35-137)	(10-140)	
240-23759-1	WW-17303-042513-NL-001	67	14	
LCS 240-84345/9-A	Lab Control Sample	75	50	
MB 240-84345/8-A	Method Blank	57	24	

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

Client Sample ID: WW-17303-042513-NL-001

Lab Sample ID: 240-23759-1

Date Collected: 04/25/13 11:00

Matrix: Water

Date Received: 04/29/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	85102	05/08/13 19:53	LW	TAL CAN
Total/NA	Prep	3510C			84345	05/01/13 14:07	BM	TAL CAN
Total/NA	Analysis	8082		1	84682	05/03/13 19:30	LH	TAL CAN

Client Sample ID: TB-17303-042513-NL-002

Lab Sample ID: 240-23759-2

Date Collected: 04/25/13 00:00

Matrix: Water

Date Received: 04/29/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	85102	05/08/13 19:08	LW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-23759-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	07-28-13
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-13
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Washington	State Program	10	C971	01-12-14
West Virginia DEP	State Program	3	210	12-31-13
Wisconsin	State Program	5	999518190	08-31-13

CONESTOGA-ROVERS & ASSOCIATES

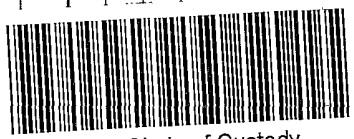
CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

COC NO.: PL- 11156
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 17303-T02-01Y12	**Laboratory Name:** TEST AMERICA	**Lab Location:** NORTH CANTON, OH	**SSOW ID:** 30640-T02-018
Project Name: CVO-RACER	**Lab Contact:** DENISE HECKLER	**Lab Quote No:**	**Cooler No:**
Project Location: YPSILANTI, MI			**Carrier:** FEDEX
Chemistry Contact: PAUL WISEMAN			**Airbill No:** 8694 4903 3627
Sampler(s): DAVID RIVERS			**Date Shipped:** 4-26-2013

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: PCBs	Analysis Requested: VOC List 1	MS/MSD Request	Comments/ Special Instructions:
1	WW-17303-042513-NL-001	4/25/13	11:00	WW	C	2	3							5	X	X		
2	~~TB-WW-1~~																	EL
3	TB-17303-042513-NL-002	4/25/13	—	WWQ	—		1							1		X		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		



TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 6
All Samples in Cooler must be on COC

Notes/ Special Requirements:

	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	Dave Rivers	CRA	4/26/13	1600		TA	4-27-13	930
2.								
3.								

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

Page 18 of 19

5/13/2013

TestAmerica Canton Sample Receipt Form/Narrative Login # : 23759
Canton Facility

Client CRA Site Name _____ Cooler unpacked by: [signature]

Cooler Received on 4-27-13 Opened on 4-27-13

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # 294-1043 Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1	(CF –0 °C) Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C		
IR GUN# 4G	(CF +1 °C) Observed Cooler Temp. 3.2 °C	Corrected Cooler Temp. 4.2 °C	☐ See Multiple Cooler Form	
IR GUN# 5G	(CF +1 °C) Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C		
IR GUN# 8	(CF +1 °C) Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C		

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity ____	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Did all bottles arrive in good condition (Unbroken)?	Yes	No
7. Could all bottle labels be reconciled with the COC?	Yes	No
8. Were correct bottle(s) used for the test(s) indicated?	Yes	No
9. Sufficient quantity received to perform indicated analyses?	Yes	No
10. Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC379740
11. Were VOAs on the COC?	Yes	No
12. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
13. Was a trip blank present in the cooler(s)?	Yes	No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: [signature]

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-24550-1
Client Project/Site: 17303-T02-018, RACER CVO

For:
Conestoga-Rovers & Associates, Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman

Denise D Heckler

Authorized for release by:
6/4/2013 3:14:36 PM

Denise Heckler, Project Manager II
denise.heckler@testamericainc.com

Table of Contents

Job ID: 240-24550-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-018, RACER CVO

Report Number: 240-24550-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/17/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.1 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WW-17303-051613-CT-001 (240-24550-1), W-17303-051613-CT-002 (240-24550-2) and TB-17303-051613 (240-24550-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/30/2013 and 05/31/2013.

The following samples required a dilution which was performed outside of the analytical holding time: W-17303-051613-CT-002 (240-24550-2), WW-17303-051613-CT-001 (240-24550-1).

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples WW-17303-051613-CT-001 (240-24550-1) and W-17303-051613-CT-002 (240-24550-2) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 05/23/2013 and analyzed on 05/24/2013.

Job ID: 240-24550-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 87046.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

PH

Samples WW-17303-051613-CT-001 (240-24550-1) and W-17303-051613-CT-002 (240-24550-2) were analyzed for pH in accordance with EPA Method 150.1. The samples were analyzed past the method recommended 15 minute holding time on 05/17/2013.

No difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

PHENOLS

Samples WW-17303-051613-CT-001 (240-24550-1) and W-17303-051613-CT-002 (240-24550-2) were analyzed for phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 05/29/2013.

No difficulties were encountered during the phenol analyses.

All quality control parameters were within the acceptance limits.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes
U	Indicates the analyte was analyzed for but not detected.

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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-24550-1	WW-17303-051613-CT-001	Water	05/16/13 13:35	05/17/13 09:20
240-24550-2	W-17303-051613-CT-002	Water	05/16/13 13:45	05/17/13 09:20
240-24550-3	TB-17303-051613	Water	05/16/13 00:00	05/17/13 09:20

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

Client Sample ID: WW-17303-051613-CT-001 — Lab Sample ID: 240-24550-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	41	H	1.7	0.22	ug/L	1.67		8260B	Total/NA
1,2-Dichloroethane - RA	12		1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene - RA	4.0		1.0	0.13	ug/L	1		8260B	Total/NA
Benzene - RA	44	E	1.0	0.13	ug/L	1		8260B	Total/NA
Chlorobenzene - RA	0.64	J	1.0	0.15	ug/L	1		8260B	Total/NA
Chloroform - RA	1.1		1.0	0.16	ug/L	1		8260B	Total/NA
2-Butanone (MEK) - RA	15		10	0.57	ug/L	1		8260B	Total/NA
pH	6.90	HF	0.100	0.100	SU	1		150.1	Total/NA

Client Sample ID: W-17303-051613-CT-002 — Lab Sample ID: 240-24550-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	42	H	1.7	0.22	ug/L	1.67		8260B	Total/NA
1,2-Dichloroethane - RA	12		1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene - RA	4.1		1.0	0.13	ug/L	1		8260B	Total/NA
Benzene - RA	46	E	1.0	0.13	ug/L	1		8260B	Total/NA
Chlorobenzene - RA	0.63	J	1.0	0.15	ug/L	1		8260B	Total/NA
Chloroform - RA	1.1		1.0	0.16	ug/L	1		8260B	Total/NA
2-Butanone (MEK) - RA	15		10	0.57	ug/L	1		8260B	Total/NA
pH	6.93	HF	0.100	0.100	SU	1		150.1	Total/NA

Client Sample ID: TB-17303-051613 — Lab Sample ID: 240-24550-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.62	J	10	0.57	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
150.1	pH (Electrometric)	MCAWW	TAL CAN
420.1	Phenolics, Total Recoverable	MCAWW	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

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

Client Sample ID: WW-17303-051613-CT-001
Date Collected: 05/16/13 13:35
Date Received: 05/17/13 09:20

Lab Sample ID: 240-24550-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	41	H	1.7	0.22	ug/L			05/31/13 11:46	1.67

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 129*		*05/31/13 11:46*	*1.67*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*05/31/13 11:46*	*1.67*
Toluene-d8 (Surr)	*90*		*74 - 115*		*05/31/13 11:46*	*1.67*
Dibromofluoromethane (Surr)	*79*		*75 - 121*		*05/31/13 11:46*	*1.67*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

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

Client Sample ID: W-17303-051613-CT-002
Date Collected: 05/16/13 13:45
Date Received: 05/17/13 09:20

Lab Sample ID: 240-24550-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	42	H	1.7	0.22	ug/L			05/31/13 12:08	1.67

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 129*		*05/31/13 12:08*	*1.67*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*05/31/13 12:08*	*1.67*
Toluene-d8 (Surr)	*91*		*74 - 115*		*05/31/13 12:08*	*1.67*
Dibromofluoromethane (Surr)	*80*		*75 - 121*		*05/31/13 12:08*	*1.67*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

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

Client Sample ID: TB-17303-051613
Date Collected: 05/16/13 00:00
Date Received: 05/17/13 09:20

Lab Sample ID: 240-24550-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/30/13 14:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			05/30/13 14:34	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/30/13 14:34	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/30/13 14:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/30/13 14:34	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/30/13 14:34	1
Benzene	1.0	U	1.0	0.13	ug/L			05/30/13 14:34	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/30/13 14:34	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/30/13 14:34	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/30/13 14:34	1
2-Butanone (MEK)	**0.62**	**J**	10	0.57	ug/L			05/30/13 14:34	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/30/13 14:34	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/30/13 14:34	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/30/13 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 129*		*05/30/13 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 129*		*05/30/13 14:34*	*1*
4-Bromofluorobenzene (Surr)	*79*		*66 - 117*		*05/30/13 14:34*	*1*
4-Bromofluorobenzene (Surr)	*79*		*66 - 117*		*05/30/13 14:34*	*1*
Toluene-d8 (Surr)	*91*		*74 - 115*		*05/30/13 14:34*	*1*
Toluene-d8 (Surr)	*91*		*74 - 115*		*05/30/13 14:34*	*1*
Dibromofluoromethane (Surr)	*78*		*75 - 121*		*05/30/13 14:34*	*1*
Dibromofluoromethane (Surr)	*78*		*75 - 121*		*05/30/13 14:34*	*1*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

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

Client Sample ID: WW-17303-051613-CT-001
Date Collected: 05/16/13 13:35
Date Received: 05/17/13 09:20

Lab Sample ID: 240-24550-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/30/13 13:49	1
1,2-Dichloroethane	**12**		1.0	0.22	ug/L			05/30/13 13:49	1
1,4-Dichlorobenzene	**4.0**		1.0	0.13	ug/L			05/30/13 13:49	1
Benzene	**44**	**E**	1.0	0.13	ug/L			05/30/13 13:49	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/30/13 13:49	1
Chlorobenzene	**0.64**	**J**	1.0	0.15	ug/L			05/30/13 13:49	1
Chloroform	**1.1**		1.0	0.16	ug/L			05/30/13 13:49	1
2-Butanone (MEK)	**15**		10	0.57	ug/L			05/30/13 13:49	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/30/13 13:49	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/30/13 13:49	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/30/13 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 129*		*05/30/13 13:49*	*1*
4-Bromofluorobenzene (Surr)	*81*		*66 - 117*		*05/30/13 13:49*	*1*
Toluene-d8 (Surr)	*89*		*74 - 115*		*05/30/13 13:49*	*1*
Dibromofluoromethane (Surr)	*78*		*75 - 121*		*05/30/13 13:49*	*1*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

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

Client Sample ID: W-17303-051613-CT-002
Date Collected: 05/16/13 13:45
Date Received: 05/17/13 09:20

Lab Sample ID: 240-24550-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/30/13 14:11	1
1,2-Dichloroethane	**12**		1.0	0.22	ug/L			05/30/13 14:11	1
1,4-Dichlorobenzene	**4.1**		1.0	0.13	ug/L			05/30/13 14:11	1
Benzene	**46**	**E**	1.0	0.13	ug/L			05/30/13 14:11	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/30/13 14:11	1
Chlorobenzene	**0.63**	**J**	1.0	0.15	ug/L			05/30/13 14:11	1
Chloroform	**1.1**		1.0	0.16	ug/L			05/30/13 14:11	1
2-Butanone (MEK)	**15**		10	0.57	ug/L			05/30/13 14:11	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/30/13 14:11	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/30/13 14:11	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/30/13 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 129*		*05/30/13 14:11*	*1*
4-Bromofluorobenzene (Surr)	*83*		*66 - 117*		*05/30/13 14:11*	*1*
Toluene-d8 (Surr)	*91*		*74 - 115*		*05/30/13 14:11*	*1*
Dibromofluoromethane (Surr)	*80*		*75 - 121*		*05/30/13 14:11*	*1*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WW-17303-051613-CT-001
Date Collected: 05/16/13 13:35
Date Received: 05/17/13 09:20

Lab Sample ID: 240-24550-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.042	ug/L		05/23/13 08:33	05/24/13 06:20	1
Aroclor-1221	0.095	U	0.095	0.043	ug/L		05/23/13 08:33	05/24/13 06:20	1
Aroclor-1232	0.095	U	0.095	0.070	ug/L		05/23/13 08:33	05/24/13 06:20	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		05/23/13 08:33	05/24/13 06:20	1
Aroclor-1248	0.095	U	0.095	0.058	ug/L		05/23/13 08:33	05/24/13 06:20	1
Aroclor-1254	0.095	U	0.095	0.030	ug/L		05/23/13 08:33	05/24/13 06:20	1
Aroclor-1260	0.095	U	0.095	0.036	ug/L		05/23/13 08:33	05/24/13 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 137*	*05/23/13 08:33*	*05/24/13 06:20*	*1*
DCB Decachlorobiphenyl	*23*		*10 - 140*	*05/23/13 08:33*	*05/24/13 06:20*	*1*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-17303-051613-CT-002
Date Collected: 05/16/13 13:45
Date Received: 05/17/13 09:20

Lab Sample ID: 240-24550-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.042	ug/L		05/23/13 08:33	05/24/13 06:36	1
Aroclor-1221	0.095	U	0.095	0.043	ug/L		05/23/13 08:33	05/24/13 06:36	1
Aroclor-1232	0.095	U	0.095	0.070	ug/L		05/23/13 08:33	05/24/13 06:36	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		05/23/13 08:33	05/24/13 06:36	1
Aroclor-1248	0.095	U	0.095	0.058	ug/L		05/23/13 08:33	05/24/13 06:36	1
Aroclor-1254	0.095	U	0.095	0.030	ug/L		05/23/13 08:33	05/24/13 06:36	1
Aroclor-1260	0.095	U	0.095	0.036	ug/L		05/23/13 08:33	05/24/13 06:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 137*	*05/23/13 08:33*	*05/24/13 06:36*	*1*
DCB Decachlorobiphenyl	*24*		*10 - 140*	*05/23/13 08:33*	*05/24/13 06:36*	*1*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

General Chemistry

Client Sample ID: WW-17303-051613-CT-001
Date Collected: 05/16/13 13:35
Date Received: 05/17/13 09:20

Lab Sample ID: 240-24550-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.90**	**HF**	0.100	0.100	SU			05/17/13 15:45	1
Phenols, Total	0.040	U	0.040	0.0073	mg/L		05/29/13 08:00	05/29/13 15:46	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

General Chemistry

Client Sample ID: W-17303-051613-CT-002
Date Collected: 05/16/13 13:45
Date Received: 05/17/13 09:20

Lab Sample ID: 240-24550-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.93**	**HF**	0.100	0.100	SU			05/17/13 15:55	1
Phenols, Total	0.040	U	0.040	0.0073	mg/L		05/29/13 08:00	05/29/13 15:48	1

GC/MS VOA

Analysis Batch: 87797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-24550-1 - RA	WW-17303-051613-CT-001	Total/NA	Water	8260B	
240-24550-2 - RA	W-17303-051613-CT-002	Total/NA	Water	8260B	
240-24550-3	TB-17303-051613	Total/NA	Water	8260B	
LCS 240-87797/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-87797/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 87987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-24550-1	WW-17303-051613-CT-001	Total/NA	Water	8260B	
240-24550-2	W-17303-051613-CT-002	Total/NA	Water	8260B	
LCS 240-87987/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-87987/5	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 87046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-24550-1	WW-17303-051613-CT-001	Total/NA	Water	3510C	
240-24550-2	W-17303-051613-CT-002	Total/NA	Water	3510C	
LCS 240-87046/14-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-87046/13-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 87211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-24550-1	WW-17303-051613-CT-001	Total/NA	Water	8082	87046
240-24550-2	W-17303-051613-CT-002	Total/NA	Water	8082	87046
LCS 240-87046/14-A	Lab Control Sample	Total/NA	Water	8082	87046
MB 240-87046/13-A	Method Blank	Total/NA	Water	8082	87046

General Chemistry

Analysis Batch: 86399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-24550-1	WW-17303-051613-CT-001	Total/NA	Water	150.1	
240-24550-1 DU	WW-17303-051613-CT-001	Total/NA	Water	150.1	
240-24550-2	W-17303-051613-CT-002	Total/NA	Water	150.1	
LCS 240-86399/2	Lab Control Sample	Total/NA	Water	150.1	

Prep Batch: 87701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-24550-1	WW-17303-051613-CT-001	Total/NA	Water	Distill/Phenol	
240-24550-1 MS	WW-17303-051613-CT-001	Total/NA	Water	Distill/Phenol	
240-24550-1 MSD	WW-17303-051613-CT-001	Total/NA	Water	Distill/Phenol	
240-24550-2	W-17303-051613-CT-002	Total/NA	Water	Distill/Phenol	
LCS 240-87701/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 240-87701/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

Analysis Batch: 87707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-24550-1	WW-17303-051613-CT-001	Total/NA	Water	420.1	87701

General Chemistry (Continued)

Analysis Batch: 87707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-24550-1 MS	WW-17303-051613-CT-001	Total/NA	Water	420.1	87701
240-24550-1 MSD	WW-17303-051613-CT-001	Total/NA	Water	420.1	87701
240-24550-2	W-17303-051613-CT-002	Total/NA	Water	420.1	87701
LCS 240-87701/2-A	Lab Control Sample	Total/NA	Water	420.1	87701
MB 240-87701/1-A	Method Blank	Total/NA	Water	420.1	87701

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

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

Lab Sample ID: MB 240-87797/5
Matrix: Water
Analysis Batch: 87797

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/30/13 11:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			05/30/13 11:33	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/30/13 11:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/30/13 11:33	1
Benzene	1.0	U	1.0	0.13	ug/L			05/30/13 11:33	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/30/13 11:33	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/30/13 11:33	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/30/13 11:33	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			05/30/13 11:33	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/30/13 11:33	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/30/13 11:33	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/30/13 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 129*		*05/30/13 11:33*	*1*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*05/30/13 11:33*	*1*
Toluene-d8 (Surr)	*87*		*74 - 115*		*05/30/13 11:33*	*1*
Dibromofluoromethane (Surr)	*83*		*75 - 121*		*05/30/13 11:33*	*1*

Lab Sample ID: LCS 240-87797/4
Matrix: Water
Analysis Batch: 87797

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.02		ug/L		90	78 - 131
cis-1,2-Dichloroethene	10.0	8.88		ug/L		89	80 - 113
1,2-Dichloroethane	10.0	9.93		ug/L		99	71 - 127
1,4-Dichlorobenzene	10.0	9.24		ug/L		92	82 - 110
Benzene	10.0	9.33		ug/L		93	83 - 112
Carbon tetrachloride	10.0	8.05		ug/L		81	66 - 128
Chlorobenzene	10.0	9.51		ug/L		95	85 - 110
Chloroform	10.0	8.82		ug/L		88	79 - 117
2-Butanone (MEK)	20.0	22.9		ug/L		114	60 - 126
Tetrachloroethene	10.0	9.77		ug/L		98	79 - 114
Trichloroethene	10.0	9.77		ug/L		98	76 - 117
Vinyl chloride	10.0	7.50		ug/L		75	53 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*63 - 129*
4-Bromofluorobenzene (Surr)	*83*		*66 - 117*
Toluene-d8 (Surr)	*88*		*74 - 115*
Dibromofluoromethane (Surr)	*83*		*75 - 121*

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

Lab Sample ID: MB 240-87987/5
Matrix: Water
Analysis Batch: 87987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/31/13 11:23	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/31/13 11:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/31/13 11:23	1
Benzene	1.0	U	1.0	0.13	ug/L			05/31/13 11:23	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/31/13 11:23	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/31/13 11:23	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/31/13 11:23	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			05/31/13 11:23	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/31/13 11:23	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/31/13 11:23	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/31/13 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*63 - 129*		*05/31/13 11:23*	*1*
4-Bromofluorobenzene (Surr)	*85*		*66 - 117*		*05/31/13 11:23*	*1*
Toluene-d8 (Surr)	*88*		*74 - 115*		*05/31/13 11:23*	*1*
Dibromofluoromethane (Surr)	*80*		*75 - 121*		*05/31/13 11:23*	*1*

Lab Sample ID: LCS 240-87987/4
Matrix: Water
Analysis Batch: 87987

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.49		ug/L		95	78 - 131
1,2-Dichloroethane	10.0	9.41		ug/L		94	71 - 127
1,4-Dichlorobenzene	10.0	9.28		ug/L		93	82 - 110
Benzene	10.0	9.82		ug/L		98	83 - 112
Carbon tetrachloride	10.0	8.91		ug/L		89	66 - 128
Chlorobenzene	10.0	9.84		ug/L		98	85 - 110
Chloroform	10.0	9.21		ug/L		92	79 - 117
2-Butanone (MEK)	20.0	17.4		ug/L		87	60 - 126
Tetrachloroethene	10.0	10.2		ug/L		102	79 - 114
Trichloroethene	10.0	10.2		ug/L		102	76 - 117
Vinyl chloride	10.0	7.52		ug/L		75	53 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 129*
4-Bromofluorobenzene (Surr)	*84*		*66 - 117*
Toluene-d8 (Surr)	*90*		*74 - 115*
Dibromofluoromethane (Surr)	*82*		*75 - 121*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-87046/13-A
Matrix: Water
Analysis Batch: 87211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		05/23/13 08:33	05/24/13 05:33	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		05/23/13 08:33	05/24/13 05:33	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		05/23/13 08:33	05/24/13 05:33	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		05/23/13 08:33	05/24/13 05:33	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		05/23/13 08:33	05/24/13 05:33	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		05/23/13 08:33	05/24/13 05:33	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		05/23/13 08:33	05/24/13 05:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 137*	*05/23/13 08:33*	*05/24/13 05:33*	*1*
DCB Decachlorobiphenyl	*83*		*10 - 140*	*05/23/13 08:33*	*05/24/13 05:33*	*1*

Lab Sample ID: LCS 240-87046/14-A
Matrix: Water
Analysis Batch: 87211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87046

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2.50	1.88		ug/L		75	56 - 130		
Aroclor-1260			2.50	2.27		ug/L		91	43 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*67*		*35 - 137*
DCB Decachlorobiphenyl	*72*		*10 - 140*

Method: 150.1 - pH (Electrometric)

Lab Sample ID: LCS 240-86399/2
Matrix: Water
Analysis Batch: 86399

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			5.52	5.560		SU		101	97 - 103		

Lab Sample ID: 240-24550-1 DU
Matrix: Water
Analysis Batch: 86399

Client Sample ID: WW-17303-051613-CT-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.90	HF		6.900		SU				0	20

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 240-87701/1-A
Matrix: Water
Analysis Batch: 87707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.040	U	0.040	0.0073	mg/L		05/29/13 08:00	05/29/13 15:45	1

Lab Sample ID: LCS 240-87701/2-A
Matrix: Water
Analysis Batch: 87707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.10	0.907		mg/L		82	54 - 137

Lab Sample ID: 240-24550-1 MS
Matrix: Water
Analysis Batch: 87707

Client Sample ID: WW-17303-051613-CT-001
Prep Type: Total/NA
Prep Batch: 87701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.040	U	0.100	0.0611		mg/L		61	10 - 155

Lab Sample ID: 240-24550-1 MSD
Matrix: Water
Analysis Batch: 87707

Client Sample ID: WW-17303-051613-CT-001
Prep Type: Total/NA
Prep Batch: 87701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.040	U	0.100	0.0554		mg/L		55	10 - 155	10	20

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		12DCE	BFB	TOL	DBFM	TOL	TOL	DBFM	DBFM
Lab Sample ID	Client Sample ID	(63-129)	(66-117)	(74-115)	(75-121)	(74-115)	(74-115)	(75-121)	(75-121)
240-24550-1 - RA	WW-17303-051613-CT-001	90	81	89	78	89	89	78	78
240-24550-1	WW-17303-051613-CT-001	82	82	90	79	90	90	79	79
240-24550-2 - RA	W-17303-051613-CT-002	90	83	91	80	91	91	80	80
240-24550-2	W-17303-051613-CT-002	85	82	91	80	91	91	80	80
240-24550-3	TB-17303-051613	90	79	91	78	91	91	78	78
LCS 240-87797/4	Lab Control Sample	87	83	88	83	88	88	83	83
LCS 240-87987/4	Lab Control Sample	85	84	90	82	90	90	82	82
MB 240-87797/5	Method Blank	93	82	87	83	87	87	83	83
MB 240-87987/5	Method Blank	86	85	88	80	88	88	80	80

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX2	DCB2						
Lab Sample ID	Client Sample ID	(35-137)	(10-140)						
240-24550-1	WW-17303-051613-CT-001	67	23						
240-24550-2	W-17303-051613-CT-002	73	24						
LCS 240-87046/14-A	Lab Control Sample	67	72						
MB 240-87046/13-A	Method Blank	73	83						

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

Client Sample ID: WW-17303-051613-CT-001

Lab Sample ID: 240-24550-1

Date Collected: 05/16/13 13:35

Matrix: Water

Date Received: 05/17/13 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	87797	05/30/13 13:49	LE	TAL CAN
Total/NA	Analysis	8260B		1.67	87987	05/31/13 11:46	LE	TAL CAN
Total/NA	Prep	3510C			87046	05/23/13 08:33	SE	TAL CAN
Total/NA	Analysis	8082		1	87211	05/24/13 06:20	CV	TAL CAN
Total/NA	Analysis	150.1		1	86399	05/17/13 15:45	BW	TAL CAN
Total/NA	Prep	Distill/Phenol			87701	05/29/13 08:00	JK	TAL CAN
Total/NA	Analysis	420.1		1	87707	05/29/13 15:46	JK	TAL CAN

Client Sample ID: W-17303-051613-CT-002

Lab Sample ID: 240-24550-2

Date Collected: 05/16/13 13:45

Matrix: Water

Date Received: 05/17/13 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	87797	05/30/13 14:11	LE	TAL CAN
Total/NA	Analysis	8260B		1.67	87987	05/31/13 12:08	LE	TAL CAN
Total/NA	Prep	3510C			87046	05/23/13 08:33	SE	TAL CAN
Total/NA	Analysis	8082		1	87211	05/24/13 06:36	CV	TAL CAN
Total/NA	Analysis	150.1		1	86399	05/17/13 15:55	BW	TAL CAN
Total/NA	Prep	Distill/Phenol			87701	05/29/13 08:00	JK	TAL CAN
Total/NA	Analysis	420.1		1	87707	05/29/13 15:48	JK	TAL CAN

Client Sample ID: TB-17303-051613

Lab Sample ID: 240-24550-3

Date Collected: 05/16/13 00:00

Matrix: Water

Date Received: 05/17/13 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	87797	05/30/13 14:34	LE	TAL CAN
Total/NA	Analysis	8260B		1	87797	05/30/13 14:34	LE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-24550-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	07-28-13
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-13
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Washington	State Program	10	C971	01-12-14
West Virginia DEP	State Program	3	210	12-31-13
Wisconsin	State Program	5	999518190	08-31-13

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

COC NO.: PL-12478
PAGE ___ OF ___
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 17303 - T02 - 01413	Laboratory Name: Test America	Lab Location: North Canton, OH	SSOW ID: 17303-T02-01
Project Name: CVO	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1
Project Location: Ypsilanti, MI			Carrier: FedEx
Chemistry Contact: Paul Wiseman			Airbill No: 801647517050
Sampler(s): Chris Tart			Date Shipped: 05/16/13

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOC List 2	PCBs	Total Phenolics	pH	TCL VOCs	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	WW-17303-05163-CT-001	05/16/13	13:35	WW	G	6	9		3					18	X	X	X	X	X	X	
2	W-17303-05163-CT-002	05/16/13	13:45	WW	G	3	3		2					8	X	X	X	X	X		
3	TB-17303-05163	05/16/13	—	TB	-		1							1					X		
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

240-24550 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers:

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Christopher Tart	CRA	05/16/13	1740	1.	TA	5-17-13	920
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT — ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE — Fully Executed Copy (CRA) YELLOW — Receiving Laboratory Copy PINK — Shipper GOLDENROD — Sampling Crew

CRA Form: COC-10A (20110804)

6/4/2013

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
WW-17303-051613-CT-001	240-24550-J-1	Amber Glass 250ml - Sulfuric Acid	<2	_____	_____
WW-17303-051613-CT-001	240-24550-K-1	Amber Glass 250ml - Sulfuric Acid	<2	_____	_____
WW-17303-051613-CT-001	240-24550-L-1	Amber Glass 250ml - Sulfuric Acid	<2	_____	_____
W-17303-051613-CT-002	240-24550-D-2	Amber Glass 250ml - Sulfuric Acid	>2	_____	_____

TestAmerica Canton Sample Receipt Form/Narrative Login # : 24550
Canton Facility

Client CRA Site Name _____ Cooler unpacked by:

Cooler Received on 5-17-13 Opened on 5-17-13

FedEx: 1st Grd (EXP) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1	(CF –0 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 4G	(CF +1 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	☐ See Multiple Cooler Form
IR GUN# 5G	(CF +1 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8	(CF +1 °C)	Observed Cooler Temp. 2.1 °C	Corrected Cooler Temp. 3.1 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? (Yes) No NA pH Strip Lot# HC379740
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-25989-1
Client Project/Site: 17303-T02-018, RACER CVO

For:
Conestoga-Rovers & Associates, Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman

Denise D Heckler

Authorized for release by:
7/9/2013 10:16:31 AM

Denise Heckler, Project Manager II
denise.heckler@testamericainc.com

Table of Contents

Job ID: 240-25989-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-018, RACER CVO

Report Number: 240-25989-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.5 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples WW-17303-062013-SK-001 (240-25989-1) and TB-17303-062013-SK-002 (240-25989-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA Method 624. The samples were analyzed on 06/27/2013.

Acetone and Methyl acetate were detected in method blank MB 240-91596/4 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Sample WW-17303-062013-SK-001 (240-25989-1)[2X] required dilution prior to analysis due to color and appearance. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Job ID: 240-25989-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Sample WW-17303-062013-SK-001 (240-25989-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA Method 608. The samples were prepared on 06/27/2013 and analyzed on 07/01/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 91699.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-25989-1	WW-17303-062013-SK-001	Water	06/20/13 12:50	06/21/13 09:30
240-25989-2	TB-17303-062013-SK-002	Water	06/20/13 00:00	06/21/13 09:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Client Sample ID: WW-17303-062013-SK-001 — Lab Sample ID: 240-25989-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	7.2		2.0	0.44	ug/L	2		624	Total/NA

Client Sample ID: TB-17303-062013-SK-002 — Lab Sample ID: 240-25989-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	B	10	1.1	ug/L	1		624	Total/NA
Methyl acetate	0.55	J B	1.0	0.38	ug/L	1		624	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CAN
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL CAN

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: WW-17303-062013-SK-001
Date Collected: 06/20/13 12:50
Date Received: 06/21/13 09:30

Lab Sample ID: 240-25989-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.44	ug/L			06/27/13 04:45	2
1,2-Dichloroethane	**7.2**		2.0	0.44	ug/L			06/27/13 04:45	2
Trichloroethene	2.0	U	2.0	0.34	ug/L			06/27/13 04:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*81 - 112*		*06/27/13 04:45*	*2*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 125*		*06/27/13 04:45*	*2*
Toluene-d8 (Surr)	*97*		*84 - 110*		*06/27/13 04:45*	*2*

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-17303-062013-SK-002
Date Collected: 06/20/13 00:00
Date Received: 06/21/13 09:30

Lab Sample ID: 240-25989-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/27/13 07:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/27/13 07:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/27/13 07:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/27/13 07:48	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/27/13 07:48	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/27/13 07:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/27/13 07:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/27/13 07:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/27/13 07:48	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/27/13 07:48	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/27/13 07:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/27/13 07:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/27/13 07:48	1
2-Hexanone	10	U	10	0.41	ug/L			06/27/13 07:48	1
Acetone	**10**	**B**	10	1.1	ug/L			06/27/13 07:48	1
m-Xylene & p-Xylene	1.0	U	1.0	0.24	ug/L			06/27/13 07:48	1
o-Xylene	1.0	U	1.0	0.14	ug/L			06/27/13 07:48	1
Benzene	1.0	U	1.0	0.13	ug/L			06/27/13 07:48	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/27/13 07:48	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/27/13 07:48	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			06/27/13 07:48	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/27/13 07:48	1
Chlorobenzene	1.0	U	1.0	0.17	ug/L			06/27/13 07:48	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/27/13 07:48	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/27/13 07:48	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/27/13 07:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/27/13 07:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/27/13 07:48	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/27/13 07:48	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/27/13 07:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/27/13 07:48	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/27/13 07:48	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/27/13 07:48	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/27/13 07:48	1
Methyl acetate	**0.55**	**J B**	1.0	0.38	ug/L			06/27/13 07:48	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/27/13 07:48	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/27/13 07:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			06/27/13 07:48	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			06/27/13 07:48	1
Styrene	1.0	U	1.0	0.11	ug/L			06/27/13 07:48	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/27/13 07:48	1
Toluene	1.0	U	1.0	0.13	ug/L			06/27/13 07:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/27/13 07:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/27/13 07:48	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/27/13 07:48	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/27/13 07:48	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/27/13 07:48	1
Xylenes, Total	3.0	U	3.0	0.28	ug/L			06/27/13 07:48	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/27/13 07:48	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-17303-062013-SK-002
Date Collected: 06/20/13 00:00
Date Received: 06/21/13 09:30

Lab Sample ID: 240-25989-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/27/13 07:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 125*		*06/27/13 07:48*	*1*
4-Bromofluorobenzene (Surr)	*94*		*81 - 112*		*06/27/13 07:48*	*1*
Toluene-d8 (Surr)	*101*		*84 - 110*		*06/27/13 07:48*	*1*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: WW-17303-062013-SK-001
Date Collected: 06/20/13 12:50
Date Received: 06/21/13 09:30

Lab Sample ID: 240-25989-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.042	ug/L		06/27/13 11:27	07/01/13 17:09	1
Aroclor-1221	0.095	U	0.095	0.043	ug/L		06/27/13 11:27	07/01/13 17:09	1
Aroclor-1232	0.095	U	0.095	0.070	ug/L		06/27/13 11:27	07/01/13 17:09	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		06/27/13 11:27	07/01/13 17:09	1
Aroclor-1248	0.095	U	0.095	0.058	ug/L		06/27/13 11:27	07/01/13 17:09	1
Aroclor-1254	0.095	U	0.095	0.030	ug/L		06/27/13 11:27	07/01/13 17:09	1
Aroclor-1260	0.095	U	0.095	0.036	ug/L		06/27/13 11:27	07/01/13 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*10*		*10 - 114*	*06/27/13 11:27*	*07/01/13 17:09*	*1*
Tetrachloro-m-xylene	*76*		*15 - 131*	*06/27/13 11:27*	*07/01/13 17:09*	*1*

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

GC/MS VOA

Analysis Batch: 91596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25989-1	WW-17303-062013-SK-001	Total/NA	Water	624	
240-25989-2	TB-17303-062013-SK-002	Total/NA	Water	624	
LCS 240-91596/5	Lab Control Sample	Total/NA	Water	624	
MB 240-91596/4	Method Blank	Total/NA	Water	624	

GC Semi VOA

Prep Batch: 91699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25989-1	WW-17303-062013-SK-001	Total/NA	Water	3520C	
LCS 240-91699/11-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-91699/10-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 92162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25989-1	WW-17303-062013-SK-001	Total/NA	Water	608	91699
LCS 240-91699/11-A	Lab Control Sample	Total/NA	Water	608	91699
MB 240-91699/10-A	Method Blank	Total/NA	Water	608	91699

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-91596/4
Matrix: Water
Analysis Batch: 91596

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/26/13 19:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/26/13 19:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/26/13 19:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/26/13 19:15	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/26/13 19:15	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/26/13 19:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/26/13 19:15	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			06/26/13 19:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/26/13 19:15	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/26/13 19:15	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/26/13 19:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/26/13 19:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/26/13 19:15	1
2-Hexanone	2.0	U	2.0	0.41	ug/L			06/26/13 19:15	1
Acetone	1.62	J	2.0	1.1	ug/L			06/26/13 19:15	1
m-Xylene & p-Xylene	2.0	U	2.0	0.24	ug/L			06/26/13 19:15	1
o-Xylene	1.0	U	1.0	0.14	ug/L			06/26/13 19:15	1
Benzene	1.0	U	1.0	0.13	ug/L			06/26/13 19:15	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/26/13 19:15	1
Bromomethane	2.0	U	2.0	0.41	ug/L			06/26/13 19:15	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			06/26/13 19:15	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/26/13 19:15	1
Chlorobenzene	1.0	U	1.0	0.17	ug/L			06/26/13 19:15	1
Chloroethane	2.0	U	2.0	0.29	ug/L			06/26/13 19:15	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/26/13 19:15	1
Chloromethane	2.0	U	2.0	0.30	ug/L			06/26/13 19:15	1
cis-1,2-Dichloroethene	0.50	U	0.50	0.17	ug/L			06/26/13 19:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/26/13 19:15	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/26/13 19:15	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/26/13 19:15	1
Dichlorodifluoromethane	2.0	U	2.0	0.31	ug/L			06/26/13 19:15	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/26/13 19:15	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/26/13 19:15	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/26/13 19:15	1
Methyl acetate	0.621	J	2.0	0.38	ug/L			06/26/13 19:15	1
2-Butanone (MEK)	2.0	U	2.0	0.57	ug/L			06/26/13 19:15	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.32	ug/L			06/26/13 19:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			06/26/13 19:15	1
Methylene Chloride	2.0	U	2.0	0.33	ug/L			06/26/13 19:15	1
Styrene	1.0	U	1.0	0.11	ug/L			06/26/13 19:15	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/26/13 19:15	1
Toluene	1.0	U	1.0	0.13	ug/L			06/26/13 19:15	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.19	ug/L			06/26/13 19:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/26/13 19:15	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/26/13 19:15	1
Trichlorofluoromethane	2.0	U	2.0	0.21	ug/L			06/26/13 19:15	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/26/13 19:15	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			06/26/13 19:15	1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-91596/4
Matrix: Water
Analysis Batch: 91596

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/26/13 19:15	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/26/13 19:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 125*		*06/26/13 19:15*	*1*
4-Bromofluorobenzene (Surr)	*94*		*81 - 112*		*06/26/13 19:15*	*1*
Toluene-d8 (Surr)	*104*		*84 - 110*		*06/26/13 19:15*	*1*

Lab Sample ID: LCS 240-91596/5
Matrix: Water
Analysis Batch: 91596

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.7		ug/L		98	52 - 162
1,1,2,2-Tetrachloroethane	20.0	26.8		ug/L		134	46 - 157
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.8		ug/L		109	
1,1,2-Trichloroethane	20.0	22.3		ug/L		111	52 - 150
1,1-Dichloroethane	20.0	23.8		ug/L		119	59 - 155
1,1-Dichloroethene	20.0	24.4		ug/L		122	10 - 234
1,2,4-Trichlorobenzene	20.0	14.0		ug/L		70	
1,2-Dibromo-3-Chloropropane	20.0	25.3		ug/L		127	
1,2-Dichlorobenzene	20.0	19.9		ug/L		99	18 - 190
1,2-Dichloroethane	20.0	16.6		ug/L		83	49 - 155
1,2-Dichloropropane	20.0	21.3		ug/L		107	10 - 210
1,3-Dichlorobenzene	20.0	20.4		ug/L		102	59 - 156
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	18 - 190
2-Hexanone	40.0	47.8		ug/L		119	
Acetone	40.0	47.1		ug/L		118	
m-Xylene & p-Xylene	40.0	40.7		ug/L		102	
o-Xylene	20.0	21.1		ug/L		105	
Benzene	20.0	21.5		ug/L		108	37 - 151
Bromoform	20.0	19.5		ug/L		98	45 - 169
Bromomethane	20.0	17.6		ug/L		88	10 - 242
Carbon disulfide	20.0	24.3		ug/L		121	
Carbon tetrachloride	20.0	18.9		ug/L		95	70 - 140
Chlorobenzene	20.0	20.3		ug/L		101	37 - 160
Chloroethane	20.0	21.7		ug/L		109	14 - 230
Chloroform	20.0	18.8		ug/L		94	51 - 138
Chloromethane	20.0	22.7		ug/L		114	10 - 273
cis-1,2-Dichloroethene	20.0	22.0		ug/L		110	
cis-1,3-Dichloropropene	20.0	21.7		ug/L		108	10 - 227
Cyclohexane	20.0	18.1		ug/L		91	
Bromodichloromethane	20.0	19.8		ug/L		99	35 - 155
Dichlorodifluoromethane	20.0	18.7		ug/L		94	
Ethylbenzene	20.0	20.7		ug/L		104	37 - 162
1,2-Dibromoethane	20.0	21.3		ug/L		107	
Isopropylbenzene	20.0	19.5		ug/L		98	

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-91596/5
Matrix: Water
Analysis Batch: 91596

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	20.0	26.7		ug/L		133	
2-Butanone (MEK)	40.0	43.3		ug/L		108	60 - 126
4-Methyl-2-pentanone (MIBK)	40.0	42.5		ug/L		106	
Methyl tert-butyl ether	20.0	22.8		ug/L		114	
Methylene Chloride	20.0	22.5		ug/L		113	10 - 221
Styrene	20.0	21.0		ug/L		105	54 - 129
Tetrachloroethene	20.0	18.2		ug/L		91	64 - 148
Toluene	20.0	21.9		ug/L		110	47 - 150
trans-1,2-Dichloroethene	20.0	22.7		ug/L		113	54 - 156
trans-1,3-Dichloropropene	20.0	25.3		ug/L		127	17 - 183
Trichloroethene	20.0	18.2		ug/L		91	71 - 157
Trichlorofluoromethane	20.0	21.0		ug/L		105	17 - 181
Vinyl chloride	20.0	22.5		ug/L		113	10 - 251
Xylenes, Total	60.0	61.8		ug/L		103	
Methylcyclohexane	20.0	20.0		ug/L		100	
Dibromochloromethane	20.0	21.8		ug/L		109	53 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 125*
4-Bromofluorobenzene (Surr)	*100*		*81 - 112*
Toluene-d8 (Surr)	*102*		*84 - 110*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 240-91699/10-A
Matrix: Water
Analysis Batch: 92162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		06/27/13 11:27	07/01/13 18:08	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		06/27/13 11:27	07/01/13 18:08	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		06/27/13 11:27	07/01/13 18:08	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		06/27/13 11:27	07/01/13 18:08	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		06/27/13 11:27	07/01/13 18:08	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		06/27/13 11:27	07/01/13 18:08	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		06/27/13 11:27	07/01/13 18:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*10 - 114*	*06/27/13 11:27*	*07/01/13 18:08*	*1*
Tetrachloro-m-xylene	*88*		*15 - 131*	*06/27/13 11:27*	*07/01/13 18:08*	*1*

Lab Sample ID: LCS 240-91699/11-A
Matrix: Water
Analysis Batch: 92162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	2.35		ug/L		94	50 - 114

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 240-91699/11-A
Matrix: Water
Analysis Batch: 92162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91699

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1260			2.50	2.38		ug/L		95	8 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*10 - 114*
Tetrachloro-m-xylene	*87*		*15 - 131*

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(81-112)	(80-125)	(84-110)
240-25989-1	WW-17303-062013-SK-001	95	90	97
240-25989-2	TB-17303-062013-SK-002	94	91	101
LCS 240-91596/5	Lab Control Sample	100	94	102
MB 240-91596/4	Method Blank	94	92	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(10-114)	(15-131)
240-25989-1	WW-17303-062013-SK-001	10	76
LCS 240-91699/11-A	Lab Control Sample	78	87
MB 240-91699/10-A	Method Blank	76	88

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Client Sample ID: WW-17303-062013-SK-001

Lab Sample ID: 240-25989-1

Date Collected: 06/20/13 12:50

Matrix: Water

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		2	91596	06/27/13 04:45	TJL1	TAL CAN
Total/NA	Prep	3520C			91699	06/27/13 11:27	BPM	TAL CAN
Total/NA	Analysis	608		1	92162	07/01/13 17:09	LSH	TAL CAN

Client Sample ID: TB-17303-062013-SK-002

Lab Sample ID: 240-25989-2

Date Collected: 06/20/13 00:00

Matrix: Water

Date Received: 06/21/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	91596	06/27/13 07:48	TJL1	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-018, RACER CVO

TestAmerica Job ID: 240-25989-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-28-13
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Washington	State Program	10	C971	01-12-14
Wisconsin	State Program	5	999518190	08-31-13

CHAIN OF CUSTODY RECORD

COC NO.: PL-11413
PAGE 1 OF 1
(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES
14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

Project No/ Phase/Task Code: 017303-T02-01412	Laboratory Name: Test America	Lab Location: N. Canton, OH	SSOW ID: 17303-T02-018
Project Name: CVO	Lab Contact: D. Heckler	Lab Quote No: —	Cooler No: —
Project Location: Ypsilanti, M.I.			Carrier: FedEx
Chemistry Contact: Paul Wiseman			Airbill No: 8010 4751 7326
Sampler(s): Scott Kippen			Date Shipped: 6-20-13

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC List 1	TCL VOA's	PCB's	MS/MSD Request	Comments/ Special Instructions:
1	WW-17303-062013-SK-001	6-20-13	12:50	WW	G	2	3							5	X		X		
2	TB-17303-062013-SK-002	6-20-13	—	TB	—		1							1		X			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

SK

240-25989 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 6
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Scott Kippen	CRA	6-20-13	18:00	1.	TA	6-21-13	930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 25989**
Canton Facility

Client CRA Site Name _____ Cooler unpacked by:

Cooler Received on 6-21-13 Opened on 6-21-13

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # 211-1044 Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF –1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 4	(CF 0 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	☐ See Multiple Cooler Form
IR GUN# 5	(CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8	(CF -0 °C) Observed Cooler Temp. 2.5 °C	Corrected Cooler Temp. 2.5 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC376062
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Ref: SOP NC-SC-0005, Sample Receiving
\\Cansvr10\public\QAQC\SOPS\Work Instructions\WI-NC-099-061413, Rev 1 Cooler Receipt Form.doc rls