



**CONESTOGA-ROVERS
& ASSOCIATES**

14496 Sheldon Road, Suite 200, Plymouth, Michigan 48170
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www.CRAworld.com

October 10, 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 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 permittee 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 third quarter (July through September) period.

During the July through September period, water was discharged on July 18, September 4 and 19, 2013. The water was treated with sodium permanganate prior to each discharge event during this quarter. The semi-annual sampling event (additional sampling parameters) was also conducted on July 18, 2013. 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.

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**CONESTOGA-ROVERS
& ASSOCIATES**

October 10, 2013

Reference No. 017303

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

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Beth Landale, PE
Project Manager

AB/bw/40/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 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	III

<i>Sample Date</i>					7/18/2013	8/1/2013	9/4/2013 & 9/19/2013 ¹
<i>Sample Location</i>					Point of Discharge	-	Point of Discharge
<i>Sample ID</i>					WW-17303-071813-DB-001	No sample collected since there was no discharge in this month	WW-17303-090413-DR-001/WW-17303-091913-DB-001
Parameter	Upper Limit (mg/l)	Monitoring Frequency	Reporting Frequency	Sample Type			
Flow (GAL)	Report	Once/Discharge	Monthly/Quarterly	Metered	14,324	-	15,880/2,285
1,2-Dichloroethane	0.50	Monthly	Quarterly	Grab	0.0064	--	0.0041/0.0027
Trichloroethene	0.50	Monthly	Quarterly	Grab	0.001 U	--	0.001 U/0.001 U
Vinyl Chloride	0.20	Monthly	Quarterly	Grab	0.001 U	--	0.001 U/.001U
Polychlorinated Biphenyls	<0.0002**	Monthly	Quarterly	24-Hour Time proportionated Composite***	0.000095 U	--	0.0001 U/0.000095 U
pH	≥ 5.0 and ≤ 11.0 S.U	Semi-Annual	Semi-Annual	Grab	7.12	--	--
Benzene	0.50	Semi-Annual	Semi-Annual	Grab	0.027	--	--
Carbon Tetrachloride	0.50	Semi-Annual	Semi-Annual	Grab	0.001 U	--	--
Chlorobenzene	100.00	Semi-Annual	Semi-Annual	Grab	0.001 U	--	--
Chloroform	6.00	Semi-Annual	Semi-Annual	Grab	0.00027	--	--
1,4-Dichlorobenzene	7.50	Semi-Annual	Semi-Annual	Grab	0.0025	--	--
1,1-Dichloroethene	0.70	Semi-Annual	Semi-Annual	Grab	0.001 U	--	--
Methyl Ethyl Ketone	200.00	Semi-Annual	Semi-Annual	Grab	0.0042	--	--
Tetrachloroethene	0.70	Semi-Annual	Semi-Annual	Grab	0.001 U	--	--
Total Phenolics	1.00	Semi-Annual	Semi-Annual	Grab	0.04 U	--	--

Notes

* As established in Part 4, Section B - Special Conditions: The permittee 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 permittee shall additionally report a summary of individual discharges during the reporting quarter. The quarterly summary shall accompany the permittee'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

¹ Discharge occurred twice during the month of September 2013; therefore, two samples were collected in September.

ATTACHMENT B

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: 240-27071-1

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



Authorized for release by:

8/2/2013 12:40:51 PM

Denise Heckler, Project Manager II

denise.heckler@testamericainc.com

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www.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.

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Case Narrative

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

TestAmerica Job ID: 240-27071-1

Job ID: 240-27071-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-018, RACER CVO

Report Number: 240-27071-1

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 07/20/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 and 3.0 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples WW-17303-071813-DB-001 (240-27071-1), WW-17303-071813-DB-002 (240-27071-2) and TB-17303-071813 (240-27071-3) were analyzed for volatile organic compounds (GCMS) in accordance with EPA Method 624. The samples were analyzed on 08/01/2013.

Methylene Chloride was detected in method blank MB 240-95719/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

1,1-Dichloroethene, Trichloroethene and Vinyl chloride failed the recovery criteria low for the MS/MSD of sample WW-17303-071813-DB-001 (240-27071-1) in batch 240-95719. Trichloroethene exceeded the RPD limit.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

Case Narrative

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

TestAmerica Job ID: 240-27071-1

Job ID: 240-27071-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

POLYCHLORINATED BIPHENYLS (PCBS)

Samples WW-17303-071813-DB-001 (240-27071-1) and WW-17303-071813-DB-002 (240-27071-2) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA Method 608. The samples were prepared on 07/30/2013 and analyzed on 07/31/2013.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

PH

Samples WW-17303-071813-DB-001 (240-27071-1) and WW-17303-071813-DB-002 (240-27071-2) were analyzed for pH in accordance with EPA Method 150.1. The samples were analyzed past the method recommended 15 minute holding time on 07/20/2013.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

PHENOLS

Samples WW-17303-071813-DB-001 (240-27071-1) and WW-17303-071813-DB-002 (240-27071-2) were analyzed for phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 07/29/2013.

No difficulties were encountered during the phenol analysis.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

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

TestAmerica Job ID: 240-27071-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

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.
α	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: 240-27071-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-27071-1	WW-17303-071813-DB-001	Water	07/18/13 13:05	07/20/13 09:50
240-27071-2	WW-17303-071813-DB-002	Water	07/18/13 13:20	07/20/13 09:50
240-27071-3	TB-17303-071813	Water	07/18/13 00:00	07/20/13 09:50

Detection Summary

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

TestAmerica Job ID: 240-27071-1

Client Sample ID: WW-17303-071813-DB-001

Lab Sample ID: 240-27071-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	27		1.0	0.13	ug/L	1			624	Total/NA
Chloroform	0.27	J	1.0	0.16	ug/L	1			624	Total/NA
1,4-Dichlorobenzene	2.5		1.0	0.13	ug/L	1			624	Total/NA
1,2-Dichloroethane	6.4		1.0	0.22	ug/L	1			624	Total/NA
2-Butanone (MEK)	4.2		1.0	0.57	ug/L	1			624	Total/NA
pH	7.12	HF	0.100	0.100	SU	1			150.1	Total/NA

Client Sample ID: WW-17303-071813-DB-002

Lab Sample ID: 240-27071-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	28		1.0	0.13	ug/L	1			624	Total/NA
Chlorobenzene	0.81	J	1.0	0.17	ug/L	1			624	Total/NA
Chloroform	0.23	J	1.0	0.16	ug/L	1			624	Total/NA
1,4-Dichlorobenzene	2.7		1.0	0.13	ug/L	1			624	Total/NA
1,2-Dichloroethane	6.9		1.0	0.22	ug/L	1			624	Total/NA
2-Butanone (MEK)	4.3		1.0	0.57	ug/L	1			624	Total/NA
pH	7.24	HF	0.100	0.100	SU	1			150.1	Total/NA

Client Sample ID: TB-17303-071813

Lab Sample ID: 240-27071-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

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

TestAmerica Job ID: 240-27071-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CAN
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL CAN
150.1	pH (Electrometric)	MCAWW	TAL CAN
420.1	Phenolics, Total Recoverable	MCAWW	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.

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

Laboratory References:

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

Client Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Client Sample ID: WW-17303-071813-DB-001

Date Collected: 07/18/13 13:05

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	27		1.0	0.13	ug/L			08/01/13 10:01	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			08/01/13 10:01	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			08/01/13 10:01	1
Chlorobenzene	1.0	U	1.0	0.17	ug/L			08/01/13 10:01	1
Chloroform	0.27	J	1.0	0.16	ug/L			08/01/13 10:01	1
1,4-Dichlorobenzene	2.5		1.0	0.13	ug/L			08/01/13 10:01	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/01/13 10:01	1
1,2-Dichloroethane	6.4		1.0	0.22	ug/L			08/01/13 10:01	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			08/01/13 10:01	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			08/01/13 10:01	1
2-Butanone (MEK)	4.2		1.0	0.57	ug/L			08/01/13 10:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		81 - 112					08/01/13 10:01	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 125					08/01/13 10:01	1
Toluene-d8 (Surr)	99		84 - 110					08/01/13 10:01	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Client Sample ID: WW-17303-071813-DB-002

Date Collected: 07/18/13 13:20

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	28		1.0	0.13	ug/L			08/01/13 11:13	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			08/01/13 11:13	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			08/01/13 11:13	1
Chlorobenzene	0.81	J	1.0	0.17	ug/L			08/01/13 11:13	1
Chloroform	0.23	J	1.0	0.16	ug/L			08/01/13 11:13	1
1,4-Dichlorobenzene	2.7		1.0	0.13	ug/L			08/01/13 11:13	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/01/13 11:13	1
1,2-Dichloroethane	6.9		1.0	0.22	ug/L			08/01/13 11:13	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			08/01/13 11:13	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			08/01/13 11:13	1
2-Butanone (MEK)	4.3		1.0	0.57	ug/L			08/01/13 11:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		81 - 112					08/01/13 11:13	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 125					08/01/13 11:13	1
Toluene-d8 (Surr)	100		84 - 110					08/01/13 11:13	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Client Sample ID: TB-17303-071813

Date Collected: 07/18/13 00:00

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-3

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			08/01/13 11:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			08/01/13 11:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			08/01/13 11:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			08/01/13 11:37	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			08/01/13 11:37	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/01/13 11:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			08/01/13 11:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			08/01/13 11:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			08/01/13 11:37	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			08/01/13 11:37	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			08/01/13 11:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			08/01/13 11:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			08/01/13 11:37	1
2-Hexanone	10	U	10	0.41	ug/L			08/01/13 11:37	1
Acetone	10	U	10	1.1	ug/L			08/01/13 11:37	1
m-Xylene & p-Xylene	1.0	U	1.0	0.24	ug/L			08/01/13 11:37	1
o-Xylene	1.0	U	1.0	0.14	ug/L			08/01/13 11:37	1
Benzene	1.0	U	1.0	0.13	ug/L			08/01/13 11:37	1
Bromoform	1.0	U	1.0	0.64	ug/L			08/01/13 11:37	1
Bromomethane	1.0	U	1.0	0.41	ug/L			08/01/13 11:37	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			08/01/13 11:37	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			08/01/13 11:37	1
Chlorobenzene	1.0	U	1.0	0.17	ug/L			08/01/13 11:37	1
Chloroethane	1.0	U	1.0	0.29	ug/L			08/01/13 11:37	1
Chloroform	1.0	U	1.0	0.16	ug/L			08/01/13 11:37	1
Chloromethane	1.0	U	1.0	0.30	ug/L			08/01/13 11:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			08/01/13 11:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			08/01/13 11:37	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			08/01/13 11:37	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			08/01/13 11:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			08/01/13 11:37	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			08/01/13 11:37	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			08/01/13 11:37	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			08/01/13 11:37	1
Methyl acetate	1.0	U	1.0	0.38	ug/L			08/01/13 11:37	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			08/01/13 11:37	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			08/01/13 11:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			08/01/13 11:37	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			08/01/13 11:37	1
Styrene	1.0	U	1.0	0.11	ug/L			08/01/13 11:37	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			08/01/13 11:37	1
Toluene	1.0	U	1.0	0.13	ug/L			08/01/13 11:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/01/13 11:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			08/01/13 11:37	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			08/01/13 11:37	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			08/01/13 11:37	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			08/01/13 11:37	1
Xylenes, Total	3.0	U	3.0	0.28	ug/L			08/01/13 11:37	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			08/01/13 11:37	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Client Sample ID: TB-17303-071813

Date Collected: 07/18/13 00:00

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.18	ug/L	—		08/01/13 11:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 125					08/01/13 11:37	1
4-Bromofluorobenzene (Surr)	95		81 - 112					08/01/13 11:37	1
Toluene-d8 (Surr)	98		84 - 110					08/01/13 11:37	1

Client Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Client Sample ID: WW-17303-071813-DB-001

Date Collected: 07/18/13 13:05

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.042	ug/L		07/30/13 08:03	07/31/13 19:29	1
Aroclor-1221	0.095	U	0.095	0.043	ug/L		07/30/13 08:03	07/31/13 19:29	1
Aroclor-1232	0.095	U	0.095	0.070	ug/L		07/30/13 08:03	07/31/13 19:29	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		07/30/13 08:03	07/31/13 19:29	1
Aroclor-1248	0.095	U	0.095	0.058	ug/L		07/30/13 08:03	07/31/13 19:29	1
Aroclor-1254	0.095	U	0.095	0.030	ug/L		07/30/13 08:03	07/31/13 19:29	1
Aroclor-1260	0.095	U	0.095	0.036	ug/L		07/30/13 08:03	07/31/13 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	16		10 - 114	07/30/13 08:03	07/31/13 19:29	1
Tetrachloro-m-xylene	65		15 - 131	07/30/13 08:03	07/31/13 19:29	1

Client Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Client Sample ID: WW-17303-071813-DB-002

Date Collected: 07/18/13 13:20

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.042	ug/L		07/30/13 08:03	07/31/13 20:43	1
Aroclor-1221	0.095	U	0.095	0.043	ug/L		07/30/13 08:03	07/31/13 20:43	1
Aroclor-1232	0.095	U	0.095	0.070	ug/L		07/30/13 08:03	07/31/13 20:43	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		07/30/13 08:03	07/31/13 20:43	1
Aroclor-1248	0.095	U	0.095	0.058	ug/L		07/30/13 08:03	07/31/13 20:43	1
Aroclor-1254	0.095	U	0.095	0.030	ug/L		07/30/13 08:03	07/31/13 20:43	1
Aroclor-1260	0.095	U	0.095	0.036	ug/L		07/30/13 08:03	07/31/13 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	24		10 - 114				07/30/13 08:03	07/31/13 20:43	1
Tetrachloro-m-xylene	59		15 - 131				07/30/13 08:03	07/31/13 20:43	1

Client Sample Results

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

TestAmerica Job ID: 240-27071-1

General Chemistry

Client Sample ID: WW-17303-071813-DB-001

Date Collected: 07/18/13 13:05

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.12	HF	0.100	0.100	SU			07/20/13 11:51	1
Phenols, Total	0.040	U	0.040	0.0073	mg/L		07/29/13 05:30	07/29/13 13:24	1

Client Sample Results

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

TestAmerica Job ID: 240-27071-1

General Chemistry

Client Sample ID: WW-17303-071813-DB-002

Date Collected: 07/18/13 13:20

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.24	HF	0.100	0.100	SU			07/20/13 11:54	1
Phenols, Total	0.040	U	0.040	0.0073	mg/L		07/29/13 05:30	07/29/13 13:26	1

QC Association Summary

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

TestAmerica Job ID: 240-27071-1

GC/MS VOA

Analysis Batch: 95719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27071-1	WW-17303-071813-DB-001	Total/NA	Water	624	
240-27071-1 MS	WW-17303-071813-DB-001	Total/NA	Water	624	
240-27071-1 MSD	WW-17303-071813-DB-001	Total/NA	Water	624	
240-27071-2	WW-17303-071813-DB-002	Total/NA	Water	624	
240-27071-3	TB-17303-071813	Total/NA	Water	624	
LCS 240-95719/6	Lab Control Sample	Total/NA	Water	624	
MB 240-95719/5	Method Blank	Total/NA	Water	624	

GC Semi VOA

Prep Batch: 95435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27071-1	WW-17303-071813-DB-001	Total/NA	Water	3520C	
240-27071-1 MS	WW-17303-071813-DB-001	Total/NA	Water	3520C	
240-27071-1 MSD	WW-17303-071813-DB-001	Total/NA	Water	3520C	
240-27071-2	WW-17303-071813-DB-002	Total/NA	Water	3520C	
LCS 240-95435/15-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-95435/14-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 95733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27071-1	WW-17303-071813-DB-001	Total/NA	Water	608	95435
240-27071-1 MS	WW-17303-071813-DB-001	Total/NA	Water	608	95435
240-27071-1 MSD	WW-17303-071813-DB-001	Total/NA	Water	608	95435
240-27071-2	WW-17303-071813-DB-002	Total/NA	Water	608	95435
LCS 240-95435/15-A	Lab Control Sample	Total/NA	Water	608	95435
MB 240-95435/14-A	Method Blank	Total/NA	Water	608	95435

General Chemistry

Analysis Batch: 94341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27071-1	WW-17303-071813-DB-001	Total/NA	Water	150.1	
240-27071-2	WW-17303-071813-DB-002	Total/NA	Water	150.1	
LCS 240-94341/2	Lab Control Sample	Total/NA	Water	150.1	

Analysis Batch: 95343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27071-1	WW-17303-071813-DB-001	Total/NA	Water	420.1	95369
240-27071-1 MS	WW-17303-071813-DB-001	Total/NA	Water	420.1	95369
240-27071-1 MSD	WW-17303-071813-DB-001	Total/NA	Water	420.1	95369
240-27071-2	WW-17303-071813-DB-002	Total/NA	Water	420.1	95369
LCS 240-95369/2-A	Lab Control Sample	Total/NA	Water	420.1	95369
MB 240-95369/1-A	Method Blank	Total/NA	Water	420.1	95369

Prep Batch: 95369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27071-1	WW-17303-071813-DB-001	Total/NA	Water	Distill/Phenol	
240-27071-1 MS	WW-17303-071813-DB-001	Total/NA	Water	Distill/Phenol	
240-27071-1 MSD	WW-17303-071813-DB-001	Total/NA	Water	Distill/Phenol	

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-27071-1

General Chemistry (Continued)

Prep Batch: 95369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27071-2	WW-17303-071813-DB-002	Total/NA	Water	Distill/Phenol	
LCS 240-95369/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 240-95369/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

QC Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Lab Sample ID: MB 240-95719/5

Matrix: Water

Analysis Batch: 95719

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			07/31/13 18:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			07/31/13 18:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			07/31/13 18:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			07/31/13 18:25	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			07/31/13 18:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			07/31/13 18:25	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			07/31/13 18:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			07/31/13 18:25	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			07/31/13 18:25	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			07/31/13 18:25	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			07/31/13 18:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			07/31/13 18:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			07/31/13 18:25	1
2-Hexanone	2.0	U	2.0	0.41	ug/L			07/31/13 18:25	1
Acetone	2.0	U	2.0	1.1	ug/L			07/31/13 18:25	1
m-Xylene & p-Xylene	2.0	U	2.0	0.24	ug/L			07/31/13 18:25	1
o-Xylene	1.0	U	1.0	0.14	ug/L			07/31/13 18:25	1
Benzene	1.0	U	1.0	0.13	ug/L			07/31/13 18:25	1
Bromoform	1.0	U	1.0	0.64	ug/L			07/31/13 18:25	1
Bromomethane	2.0	U	2.0	0.41	ug/L			07/31/13 18:25	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			07/31/13 18:25	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			07/31/13 18:25	1
Chlorobenzene	1.0	U	1.0	0.17	ug/L			07/31/13 18:25	1
Chloroethane	2.0	U	2.0	0.29	ug/L			07/31/13 18:25	1
Chloroform	1.0	U	1.0	0.16	ug/L			07/31/13 18:25	1
Chloromethane	2.0	U	2.0	0.30	ug/L			07/31/13 18:25	1
cis-1,2-Dichloroethene	0.50	U	0.50	0.17	ug/L			07/31/13 18:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			07/31/13 18:25	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			07/31/13 18:25	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			07/31/13 18:25	1
Dichlorodifluoromethane	2.0	U	2.0	0.31	ug/L			07/31/13 18:25	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			07/31/13 18:25	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			07/31/13 18:25	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			07/31/13 18:25	1
Methyl acetate	2.0	U	2.0	0.38	ug/L			07/31/13 18:25	1
2-Butanone (MEK)	1.0	U	1.0	0.57	ug/L			07/31/13 18:25	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.32	ug/L			07/31/13 18:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			07/31/13 18:25	1
Methylene Chloride	1.03	J	2.0	0.33	ug/L			07/31/13 18:25	1
Styrene	1.0	U	1.0	0.11	ug/L			07/31/13 18:25	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			07/31/13 18:25	1
Toluene	1.0	U	1.0	0.13	ug/L			07/31/13 18:25	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.19	ug/L			07/31/13 18:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			07/31/13 18:25	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			07/31/13 18:25	1
Trichlorofluoromethane	2.0	U	2.0	0.21	ug/L			07/31/13 18:25	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			07/31/13 18:25	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			07/31/13 18:25	1

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Lab Sample ID: MB 240-95719/5

Matrix: Water

Analysis Batch: 95719

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			07/31/13 18:25	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			07/31/13 18:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		80 - 125					07/31/13 18:25	1
4-Bromofluorobenzene (Surr)	99		81 - 112					07/31/13 18:25	1
Toluene-d8 (Surr)	101		84 - 110					07/31/13 18:25	1

Lab Sample ID: LCS 240-95719/6

Matrix: Water

Analysis Batch: 95719

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	23.7		ug/L		118	52 - 162
1,1,2,2-Tetrachloroethane	20.0	21.0		ug/L		105	46 - 157
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.6		ug/L		118	
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	52 - 150
1,1-Dichloroethane	20.0	19.0		ug/L		95	59 - 155
1,2,4-Trichlorobenzene	20.0	20.2		ug/L		101	
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	18 - 190
1,1-Dichloroethene	20.0	20.3		ug/L		101	10 - 234
1,2-Dichloroethane	20.0	21.3		ug/L		107	49 - 155
1,2-Dichloropropane	20.0	20.2		ug/L		101	10 - 210
1,3-Dichlorobenzene	20.0	18.3		ug/L		91	59 - 156
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	18 - 190
2-Hexanone	40.0	39.0		ug/L		97	
Acetone	40.0	37.3		ug/L		93	
m-Xylene & p-Xylene	20.0	19.3		ug/L		96	
o-Xylene	20.0	20.6		ug/L		103	
Benzene	20.0	21.3		ug/L		106	37 - 151
Bromoform	20.0	19.7		ug/L		99	45 - 169
Bromomethane	20.0	20.5		ug/L		102	10 - 242
Carbon disulfide	20.0	23.4		ug/L		117	
Carbon tetrachloride	20.0	26.2		ug/L		131	70 - 140
Chlorobenzene	20.0	18.5		ug/L		93	37 - 160
Chloroethane	20.0	20.7		ug/L		104	14 - 230
Chloroform	20.0	21.5		ug/L		107	51 - 138
Chloromethane	20.0	19.1		ug/L		95	10 - 273
cis-1,2-Dichloroethene	20.0	21.3		ug/L		106	
cis-1,3-Dichloropropene	20.0	21.1		ug/L		105	10 - 227
Cyclohexane	20.0	21.9		ug/L		110	
Bromodichloromethane	20.0	20.2		ug/L		101	35 - 155
Dichlorodifluoromethane	20.0	23.1		ug/L		115	
Ethylbenzene	20.0	19.6		ug/L		98	37 - 162
1,2-Dibromoethane	20.0	18.4		ug/L		92	
Isopropylbenzene	20.0	20.5		ug/L		102	

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Lab Sample ID: LCS 240-95719/6

Matrix: Water

Analysis Batch: 95719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	120	117		ug/L		97	
2-Butanone (MEK)	40.0	40.2		ug/L		100	60 - 126
4-Methyl-2-pentanone (MIBK)	40.0	42.0		ug/L		105	
Methyl tert-butyl ether	20.0	21.5		ug/L		107	
Methylene Chloride	20.0	21.0		ug/L		105	10 - 221
Styrene	20.0	19.1		ug/L		95	54 - 129
Tetrachloroethene	20.0	20.3		ug/L		102	64 - 148
Toluene	20.0	20.2		ug/L		101	47 - 150
trans-1,2-Dichloroethene	20.0	21.9		ug/L		109	54 - 156
trans-1,3-Dichloropropene	20.0	21.5		ug/L		107	17 - 183
Trichloroethene	20.0	21.9		ug/L		109	71 - 157
Trichlorofluoromethane	20.0	29.1		ug/L		145	17 - 181
Vinyl chloride	20.0	19.9		ug/L		99	10 - 251
Xylenes, Total	40.0	39.9		ug/L		100	
Methylcyclohexane	20.0	21.9		ug/L		110	
Dibromochloromethane	20.0	21.1		ug/L		105	53 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	100		81 - 112
Toluene-d8 (Surr)	98		84 - 110

Lab Sample ID: 240-27071-1 MS

Matrix: Water

Analysis Batch: 95719

Client Sample ID: WW-17303-071813-DB-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	27		20.0	48.7		ug/L		110	90 - 114
Vinyl chloride	1.0	U	20.0	1.0	U F	ug/L		0	50 - 119
Carbon tetrachloride	1.0	U	20.0	22.7		ug/L		114	61 - 129
Chlorobenzene	1.0	U	20.0	19.3		ug/L		97	90 - 113
Chloroform	0.27	J	20.0	20.8		ug/L		103	90 - 118
1,4-Dichlorobenzene	2.5		20.0	20.6		ug/L		91	90 - 112
1,1-Dichloroethene	1.0	U	20.0	2.66	F	ug/L		13	83 - 129
1,2-Dichloroethane	6.4		20.0	27.4		ug/L		105	90 - 123
Tetrachloroethene	1.0	U	20.0	17.9		ug/L		90	81 - 112
Trichloroethene	1.0	U	20.0	1.80	F	ug/L		9	85 - 114

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		81 - 112
1,2-Dichloroethane-d4 (Surr)	94		80 - 125
Toluene-d8 (Surr)	100		84 - 110

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Lab Sample ID: 240-27071-1 MSD

Matrix: Water

Analysis Batch: 95719

Client Sample ID: WW-17303-071813-DB-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	27		20.0	49.1		ug/L		112	90 - 114	1	30
Vinyl chloride	1.0	U	20.0	1.0	U F	ug/L		0	50 - 119	NC	30
Carbon tetrachloride	1.0	U	20.0	24.7		ug/L		123	61 - 129	8	30
Chlorobenzene	1.0	U	20.0	20.2		ug/L		101	90 - 113	5	30
Chloroform	0.27	J	20.0	21.7		ug/L		107	90 - 118	5	30
1,4-Dichlorobenzene	2.5		20.0	22.3		ug/L		99	90 - 112	8	30
1,1-Dichloroethene	1.0	U	20.0	2.57	F	ug/L		13	83 - 129	3	30
1,2-Dichloroethane	6.4		20.0	29.1		ug/L		113	90 - 123	6	30
Tetrachloroethene	1.0	U	20.0	18.0		ug/L		90	81 - 112	0	30
Trichloroethene	1.0	U	20.0	0.368	J F	ug/L		2	85 - 114	132	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		81 - 112
1,2-Dichloroethane-d4 (Surr)	96		80 - 125
Toluene-d8 (Surr)	104		84 - 110

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

Lab Sample ID: MB 240-95435/14-A

Matrix: Water

Analysis Batch: 95733

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		07/30/13 08:03	07/31/13 20:13	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		07/30/13 08:03	07/31/13 20:13	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		07/30/13 08:03	07/31/13 20:13	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		07/30/13 08:03	07/31/13 20:13	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		07/30/13 08:03	07/31/13 20:13	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		07/30/13 08:03	07/31/13 20:13	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		07/30/13 08:03	07/31/13 20:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		10 - 114	07/30/13 08:03	07/31/13 20:13	1
Tetrachloro-m-xylene	65		15 - 131	07/30/13 08:03	07/31/13 20:13	1

Lab Sample ID: LCS 240-95435/15-A

Matrix: Water

Analysis Batch: 95733

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	2.02		ug/L		81	50 - 114
Aroclor-1260	2.50	2.12		ug/L		85	8 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	80		10 - 114
Tetrachloro-m-xylene	75		15 - 131

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-27071-1

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

Lab Sample ID: 240-27071-1 MS

Matrix: Water

Analysis Batch: 95733

Client Sample ID: WW-17303-071813-DB-001

Prep Type: Total/NA

Prep Batch: 95435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.095	U	2.38	2.08		ug/L		87	50 - 114
Aroclor-1260	0.095	U	2.38	1.89		ug/L		79	8 - 127
Surrogate	MS %Recovery	MS Qualifier	Limits						
DCB Decachlorobiphenyl	18		10 - 114						
Tetrachloro-m-xylene	62		15 - 131						

Lab Sample ID: 240-27071-1 MSD

Matrix: Water

Analysis Batch: 95733

Client Sample ID: WW-17303-071813-DB-001

Prep Type: Total/NA

Prep Batch: 95435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	0.095	U	2.38	1.92		ug/L		81	50 - 114	8	30
Aroclor-1260	0.095	U	2.38	1.81		ug/L		76	8 - 127	4	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl	14		10 - 114								
Tetrachloro-m-xylene	71		15 - 131								

Method: 150.1 - pH (Electrometric)

Lab Sample ID: LCS 240-94341/2

Matrix: Water

Analysis Batch: 94341

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.49	7.500		SU		100	97 - 103

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 240-95369/1-A

Matrix: Water

Analysis Batch: 95343

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95369

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.040	U	0.040	0.0073	mg/L		07/29/13 05:30	07/29/13 13:05	1

Lab Sample ID: LCS 240-95369/2-A

Matrix: Water

Analysis Batch: 95343

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95369

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.10	0.789		mg/L		72	54 - 137

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-27071-1

Method: 420.1 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 240-27071-1 MS

Matrix: Water

Analysis Batch: 95343

Client Sample ID: WW-17303-071813-DB-001

Prep Type: Total/NA

Prep Batch: 95369

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.040	U	0.100	0.0782		mg/L		78	10 - 155

Lab Sample ID: 240-27071-1 MSD

Matrix: Water

Analysis Batch: 95343

Client Sample ID: WW-17303-071813-DB-001

Prep Type: Total/NA

Prep Batch: 95369

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	0.0743		mg/L		74	10 - 155	5	20

Surrogate Summary

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

TestAmerica Job ID: 240-27071-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (81-112)	12DCE (80-125)	TOL (84-110)
240-27071-1	WW-17303-071813-DB-001	97	95	99
240-27071-1 MS	WW-17303-071813-DB-001	103	94	100
240-27071-1 MSD	WW-17303-071813-DB-001	102	96	104
240-27071-2	WW-17303-071813-DB-002	98	98	100
240-27071-3	TB-17303-071813	95	96	98
LCS 240-95719/6	Lab Control Sample	100	97	98
MB 240-95719/5	Method Blank	99	93	101
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)	
Lab Sample ID	Client Sample ID	DCB2 (10-114)	TCX2 (15-131)
240-27071-1	WW-17303-071813-DB-001	16	65
240-27071-1 MS	WW-17303-071813-DB-001	18	62
240-27071-1 MSD	WW-17303-071813-DB-001	14	71
240-27071-2	WW-17303-071813-DB-002	24	59
LCS 240-95435/15-A	Lab Control Sample	80	75
MB 240-95435/14-A	Method Blank	78	65
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: 240-27071-1

Client Sample ID: WW-17303-071813-DB-001

Date Collected: 07/18/13 13:05

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	95719	08/01/13 10:01	TJL1	TAL CAN
Total/NA	Prep	3520C			95435	07/30/13 08:03	CSC	TAL CAN
Total/NA	Analysis	608		1	95733	07/31/13 19:29	LSH	TAL CAN
Total/NA	Analysis	150.1		1	94341	07/20/13 11:51	LKG	TAL CAN
Total/NA	Prep	Distill/Phenol			95369	07/29/13 05:30	JAK	TAL CAN
Total/NA	Analysis	420.1		1	95343	07/29/13 13:24	JAK	TAL CAN

Client Sample ID: WW-17303-071813-DB-002

Date Collected: 07/18/13 13:20

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	95719	08/01/13 11:13	TJL1	TAL CAN
Total/NA	Prep	3520C			95435	07/30/13 08:03	CSC	TAL CAN
Total/NA	Analysis	608		1	95733	07/31/13 20:43	LSH	TAL CAN
Total/NA	Analysis	150.1		1	94341	07/20/13 11:54	LKG	TAL CAN
Total/NA	Prep	Distill/Phenol			95369	07/29/13 05:30	JAK	TAL CAN
Total/NA	Analysis	420.1		1	95343	07/29/13 13:26	JAK	TAL CAN

Client Sample ID: TB-17303-071813

Date Collected: 07/18/13 00:00

Date Received: 07/20/13 09:50

Lab Sample ID: 240-27071-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	95719	08/01/13 11:37	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: 240-27071-1

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	06-30-14
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	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-14
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		08-31-13
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

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton



14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Fax: (734) 453-5201

PAGE 1 OF 1

(See Reverse Side for Instructions)

[illegible]

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)

14 13 12 11 10 9 8 7 6 5 4 3 2 1

TestAmerica Canton Sample Receipt Form/Narrative				Login # : <u>27071</u>	
Canton Facility					
Client <u>CRA</u>		Site Name _____		Cooler unpacked by: <u>[Signature]</u>	
Cooler Received on <u>7-20-13</u>		Opened on <u>7-20-13</u>			
FedEx: 1 st Grd <u>Exp</u> UPS EAS Stetson		Client Drop Off		TestAmerica Courier Other _____	
TestAmerica Cooler # <u>Multi</u>		Foam Box		Client Cooler Box Other _____	
Packing material used: <u>Bubble Wrap</u>		Foam Plastic Bag		None Other _____	
COOLANT: <u>Wet Ice</u>		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 IR GUN# 5 (CF +1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C IR GUN# 8 (CF -0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C					
☒ See Multiple Cooler Form					
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes <u>No</u> -Were custody seals on the outside of the cooler(s) signed & dated? Yes <u>No</u> NA -Were custody seals on the bottle(s)? Yes <u>No</u>					
3. Shippers' packing slip attached to the cooler(s)? <u>Yes</u> No					
4. Did custody papers accompany the sample(s)? <u>Yes</u> No					
5. Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> No					
6. Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> No					
7. Could all bottle labels be reconciled with the COC? <u>Yes</u> No					
8. Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> No					
9. Sufficient quantity received to perform indicated analyses? <u>Yes</u> No					
10. Were sample(s) at the correct pH upon receipt? <u>Yes</u> No NA pH Strip Lot# <u>HC376062</u>					
11. Were VOAs on the COC? <u>Yes</u> No					
12. Were air bubbles >6 mm in any VOA vials? <u>Yes</u> No NA					
13. Was a trip blank present in the cooler(s)? <u>Yes</u> No					
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
Concerning _____					

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 	Samples processed by: <u>[Signature]</u>
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): _____	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
WW-17303-071813-DB-001	240-27071-P-1	Amber Glass 1 liter - Sulfuric Acid	<2	_____	_____
WW-17303-071813-DB-001	240-27071-Q-1	Amber Glass 1 liter - Sulfuric Acid	<2	_____	_____
WW-17303-071813-DB-001	240-27071-R-1	Amber Glass 1 liter - Sulfuric Acid	<2	_____	_____
WW-17303-071813-DB-002	240-27071-E-2	Amber Glass 1 liter - Sulfuric Acid	<2	_____	_____
WW-17303-071813-DB-002	240-27071-F-2	Amber Glass 1 liter - Sulfuric Acid	<2	_____	_____

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: 240-28653-1

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



Authorized for release by:

9/13/2013 12:46:34 PM

Denise Heckler, Project Manager II

denise.heckler@testamericainc.com

LINKS

Review your project
results through

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Visit us at:

www.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.

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Case Narrative

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

TestAmerica Job ID: 240-28653-1

Job ID: 240-28653-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-018, RACER CVO

Report Number: 240-28653-1

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 09/05/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples WW-17303-090413-DR-001 (240-28653-1) and TB-17303-090413 (240-28653-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA Method 624. The samples were analyzed on 09/09/2013.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample WW-17303-090413-DR-001 (240-28653-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA Method 608. The samples were prepared on 09/09/2013 and analyzed on 09/10/2013.

No difficulties were encountered during the PCBs analysis.

Case Narrative

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

TestAmerica Job ID: 240-28653-1

Job ID: 240-28653-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

All quality control parameters were within the acceptance limits.

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Definitions/Glossary

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

TestAmerica Job ID: 240-28653-1

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.
α	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)
Dil Fac	Dilution Factor
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: 240-28653-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-28653-1	WW-17303-090413-DR-001	Water	09/04/13 14:20	09/05/13 09:30
240-28653-2	TB-17303-090413	Water	09/04/13 00:00	09/05/13 09:30

Detection Summary

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

TestAmerica Job ID: 240-28653-1

Client Sample ID: WW-17303-090413-DR-001

Lab Sample ID: 240-28653-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	4.1		1.0	0.22	ug/L	1		624	Total/NA

Client Sample ID: TB-17303-090413

Lab Sample ID: 240-28653-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

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

TestAmerica Job ID: 240-28653-1

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 Sample Results

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

TestAmerica Job ID: 240-28653-1

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

Client Sample ID: WW-17303-090413-DR-001

Date Collected: 09/04/13 14:20

Date Received: 09/05/13 09:30

Lab Sample ID: 240-28653-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.22	ug/L			09/09/13 19:07	1
1,2-Dichloroethane	4.1		1.0	0.22	ug/L			09/09/13 19:07	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			09/09/13 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		81 - 112					09/09/13 19:07	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 125					09/09/13 19:07	1
Toluene-d8 (Surr)	90		84 - 110					09/09/13 19:07	1

Client Sample Results

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

TestAmerica Job ID: 240-28653-1

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

Client Sample ID: TB-17303-090413

Date Collected: 09/04/13 00:00

Date Received: 09/05/13 09:30

Lab Sample ID: 240-28653-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.22	ug/L			09/09/13 19:31	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			09/09/13 19:31	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			09/09/13 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		81 - 112					09/09/13 19:31	1
1,2-Dichloroethane-d4 (Surr)	97		80 - 125					09/09/13 19:31	1
Toluene-d8 (Surr)	92		84 - 110					09/09/13 19:31	1

Client Sample Results

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

TestAmerica Job ID: 240-28653-1

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

Client Sample ID: WW-17303-090413-DR-001

Date Collected: 09/04/13 14:20

Date Received: 09/05/13 09:30

Lab Sample ID: 240-28653-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		09/09/13 14:36	09/10/13 20:55	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		09/09/13 14:36	09/10/13 20:55	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		09/09/13 14:36	09/10/13 20:55	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		09/09/13 14:36	09/10/13 20:55	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		09/09/13 14:36	09/10/13 20:55	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		09/09/13 14:36	09/10/13 20:55	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		09/09/13 14:36	09/10/13 20:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	31		10 - 114				09/09/13 14:36	09/10/13 20:55	1
Tetrachloro-m-xylene	84		15 - 131				09/09/13 14:36	09/10/13 20:55	1

QC Association Summary

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

TestAmerica Job ID: 240-28653-1

GC/MS VOA

Analysis Batch: 100698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28653-1	WW-17303-090413-DR-001	Total/NA	Water	624	
240-28653-2	TB-17303-090413	Total/NA	Water	624	
LCS 240-100698/6	Lab Control Sample	Total/NA	Water	624	
MB 240-100698/5	Method Blank	Total/NA	Water	624	

GC Semi VOA

Prep Batch: 100720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28653-1	WW-17303-090413-DR-001	Total/NA	Water	3520C	
LCS 240-100720/18-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-100720/17-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 100743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28653-1	WW-17303-090413-DR-001	Total/NA	Water	608	100720
LCS 240-100720/18-A	Lab Control Sample	Total/NA	Water	608	100720
MB 240-100720/17-A	Method Blank	Total/NA	Water	608	100720

QC Sample Results

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

TestAmerica Job ID: 240-28653-1

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

Lab Sample ID: MB 240-100698/5

Matrix: Water

Analysis Batch: 100698

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.22	ug/L			09/09/13 15:49	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			09/09/13 15:49	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			09/09/13 15:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		81 - 112					09/09/13 15:49	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 125					09/09/13 15:49	1
Toluene-d8 (Surr)	92		84 - 110					09/09/13 15:49	1

Lab Sample ID: LCS 240-100698/6

Matrix: Water

Analysis Batch: 100698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	20.0	19.1		ug/L		96	10 - 251
1,2-Dichloroethane	20.0	18.4		ug/L		92	49 - 155
Trichloroethene	20.0	21.2		ug/L		106	71 - 157
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	90		81 - 112				
1,2-Dichloroethane-d4 (Surr)	90		80 - 125				
Toluene-d8 (Surr)	94		84 - 110				

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

Lab Sample ID: MB 240-100720/17-A

Matrix: Water

Analysis Batch: 100743

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100720

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		09/09/13 14:38	09/10/13 19:10	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		09/09/13 14:38	09/10/13 19:10	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		09/09/13 14:38	09/10/13 19:10	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		09/09/13 14:38	09/10/13 19:10	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		09/09/13 14:38	09/10/13 19:10	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		09/09/13 14:38	09/10/13 19:10	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		09/09/13 14:38	09/10/13 19:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	39		10 - 114				09/09/13 14:38	09/10/13 19:10	1
Tetrachloro-m-xylene	74		15 - 131				09/09/13 14:38	09/10/13 19:10	1

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-28653-1

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

Lab Sample ID: LCS 240-100720/18-A

Matrix: Water

Analysis Batch: 100743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	2.26		ug/L		90	50 - 114
Aroclor-1260	2.50	1.53		ug/L		61	8 - 127
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	18		10 - 114				
Tetrachloro-m-xylene	66		15 - 131				

Surrogate Summary

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

TestAmerica Job ID: 240-28653-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (81-112)	12DCE (80-125)	TOL (84-110)
240-28653-1	WW-17303-090413-DR-001	92	100	90
240-28653-2	TB-17303-090413	88	97	92
LCS 240-100698/6	Lab Control Sample	90	90	94
MB 240-100698/5	Method Blank	87	99	92

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (10-114)	TCX2 (15-131)
240-28653-1	WW-17303-090413-DR-001	31	84
LCS 240-100720/18-A	Lab Control Sample	18	66
MB 240-100720/17-A	Method Blank	39	74

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: 240-28653-1

Client Sample ID: WW-17303-090413-DR-001

Lab Sample ID: 240-28653-1

Date Collected: 09/04/13 14:20

Matrix: Water

Date Received: 09/05/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	100698	09/09/13 19:07	TJL1	TAL CAN
Total/NA	Prep	3520C			100720	09/09/13 14:36	KEC	TAL CAN
Total/NA	Analysis	608		1	100743	09/10/13 20:55	RSK	TAL CAN

Client Sample ID: TB-17303-090413

Lab Sample ID: 240-28653-2

Date Collected: 09/04/13 00:00

Matrix: Water

Date Received: 09/05/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	100698	09/09/13 19:31	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: 240-28653-1

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	06-30-14
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	07-18-16
Nevada	State Program	9	OH-000482008A	07-31-14
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	08-31-14 *
Texas	NELAP	6		08-31-14 *
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	08-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton



**CONESTOGA-ROVERS
& ASSOCIATES**



240-28653 Chain of Custody

IDDY RECORD

mouth, Michigan 48170
Fax: (734) 453-5201

COC NO.: **PL-10971**

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 17303-T02-01Y13				Test America				Lab Location: North Canton, OH				SSOW ID: 17303-T02-018																																																		
Project Name: RACER-CVO				Lab Contact: D. Heckler				Lab Quote No:				Cooler No: one Cooler																																																		
Project Location: Ypsilanti, MI				<table border="1"> <thead> <tr> <th colspan="2">SAMPLE TYPE</th> <th colspan="8">CONTAINER QUANTITY & PRESERVATION</th> <th colspan="4">ANALYSIS REQUESTED (See Back of COC for Definitions)</th> </tr> <tr> <th>Matrix Code (see back of COC)</th> <th>Grab (G) or Comp (C)</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> <th rowspan="2">MS/MSD Request</th> <th rowspan="2"></th> </tr> </thead> <tbody> <tr> <td>WWG</td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td rowspan="2">Select VOCs PCBs X</td> <td rowspan="2"></td> </tr> <tr> <td>TB</td> <td>-</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> </tbody> </table>				SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION								ANALYSIS REQUESTED (See Back of COC for Definitions)				Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request		WWG	2	3								5	Select VOCs PCBs X		TB	-	1								1	Carrier: FED EX			
SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION								ANALYSIS REQUESTED (See Back of COC for Definitions)																																																				
Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request																																																			
WWG	2	3								5			Select VOCs PCBs X																																																	
TB	-	1								1																																																				
Chemistry Contact: P. Wiseman								Airbill No: 9029 3741 0479				Date Shipped: 9/4/13																																																		
Sampler(s): D. Rivers												COMMENTS/ SPECIAL INSTRUCTIONS: VOC list 1																																																		

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 ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:	
1	WW-17303-090413-DR-001	9/4/13	1420	WWG	2	3								5	X	X	VOC list 1
2	TB-17303-090413	↓	-	WQ	-	1								1	X		
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

Don
9/4/13

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				Notes/ Special Requirements: *PCBs 8 hr composite sample			
All Samples in Cooler must be on COC											

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
D. Rivers	CRA	9/4/13	1700	[Signature]	TRA	9-5-13	930

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
Canton Facility

Login # : 24653

Client <u>ERA</u>		Site Name _____		Cooler unpacked by: <u>[Signature]</u>	
Cooler Received on <u>9.5.13</u>		Opened on <u>9.5.13</u>			
FedEx: 1 st Grd <u>EXP</u>		UPS FAS Stetson		Client Drop Off TestAmerica Courier Other _____	
TestAmerica Cooler # _____		Foam Box <u>Client Cooler</u>		Box Other _____	
Packing material used: <u>Bubble Wrap</u>		Foam Plastic Bag		None Other _____	
COOLANT: <u>Wet Ice</u>		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	☐ See Multiple Cooler Form
IR GUN# 4 (CF 0 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 5 (CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8 (CF -0 °C) Observed Cooler Temp. <u>34</u> °C	Corrected Cooler Temp. <u>34</u> °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: [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: 240-29277-1

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



Authorized for release by:

10/2/2013 8:37:07 AM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

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results through

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

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

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Case Narrative

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

TestAmerica Job ID: 240-29277-1

Job ID: 240-29277-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-018, RACER CVO

Report Number: 240-29277-1

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 09/20/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-17303-091913-DB-001 (240-29277-1) and TB-17303-091913 (240-29277-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA Method 624. The samples were analyzed on 09/25/2013.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample GW-17303-091913-DB-001 (240-29277-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA Method 608. The samples were prepared on 09/30/2013 and analyzed on 10/01/2013.

Two surrogates are used for this analysis. The laboratory's SOP allows 1 of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: GW-17303-091913-DB-001 (240-29277-1). These results have been reported and qualified.

Case Narrative

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

TestAmerica Job ID: 240-29277-1

Job ID: 240-29277-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

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Definitions/Glossary

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

TestAmerica Job ID: 240-29277-1

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.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)
Dil Fac	Dilution Factor
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: 240-29277-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-29277-1	GW-17303-091913-DB-001	Water	09/19/13 11:00	09/20/13 09:30
240-29277-2	TB-17303-091913	Water	09/19/13 00:00	09/20/13 09:30

Detection Summary

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

TestAmerica Job ID: 240-29277-1

Client Sample ID: GW-17303-091913-DB-001

Lab Sample ID: 240-29277-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.7		1.0	0.22	ug/L	1		624	Total/NA

Client Sample ID: TB-17303-091913

Lab Sample ID: 240-29277-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

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

TestAmerica Job ID: 240-29277-1

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 Sample Results

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

TestAmerica Job ID: 240-29277-1

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

Client Sample ID: GW-17303-091913-DB-001

Date Collected: 09/19/13 11:00

Date Received: 09/20/13 09:30

Lab Sample ID: 240-29277-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.22	ug/L			09/25/13 01:14	1
1,2-Dichloroethane	2.7		1.0	0.22	ug/L			09/25/13 01:14	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			09/25/13 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		81 - 112					09/25/13 01:14	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 125					09/25/13 01:14	1
Toluene-d8 (Surr)	92		84 - 110					09/25/13 01:14	1

Client Sample Results

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

TestAmerica Job ID: 240-29277-1

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

Client Sample ID: TB-17303-091913

Date Collected: 09/19/13 00:00

Date Received: 09/20/13 09:30

Lab Sample ID: 240-29277-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.22	ug/L			09/25/13 01:38	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			09/25/13 01:38	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			09/25/13 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		81 - 112					09/25/13 01:38	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 125					09/25/13 01:38	1
Toluene-d8 (Surr)	93		84 - 110					09/25/13 01:38	1

Client Sample Results

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

TestAmerica Job ID: 240-29277-1

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

Client Sample ID: GW-17303-091913-DB-001

Date Collected: 09/19/13 11:00

Date Received: 09/20/13 09:30

Lab Sample ID: 240-29277-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.042	ug/L		09/30/13 07:43	10/01/13 11:55	1
Aroclor-1221	0.095	U	0.095	0.043	ug/L		09/30/13 07:43	10/01/13 11:55	1
Aroclor-1232	0.095	U	0.095	0.070	ug/L		09/30/13 07:43	10/01/13 11:55	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/30/13 07:43	10/01/13 11:55	1
Aroclor-1248	0.095	U	0.095	0.058	ug/L		09/30/13 07:43	10/01/13 11:55	1
Aroclor-1254	0.095	U	0.095	0.030	ug/L		09/30/13 07:43	10/01/13 11:55	1
Aroclor-1260	0.095	U	0.095	0.036	ug/L		09/30/13 07:43	10/01/13 11:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	5	X	10 - 114				09/30/13 07:43	10/01/13 11:55	1
Tetrachloro-m-xylene	73		15 - 131				09/30/13 07:43	10/01/13 11:55	1

QC Association Summary

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

TestAmerica Job ID: 240-29277-1

GC/MS VOA

Analysis Batch: 102782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-29277-1	GW-17303-091913-DB-001	Total/NA	Water	624	
240-29277-2	TB-17303-091913	Total/NA	Water	624	
LCS 240-102782/6	Lab Control Sample	Total/NA	Water	624	
MB 240-102782/5	Method Blank	Total/NA	Water	624	

GC Semi VOA

Prep Batch: 103430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-29277-1	GW-17303-091913-DB-001	Total/NA	Water	3510C	
LCS 240-103430/10-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-103430/9-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 103579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-29277-1	GW-17303-091913-DB-001	Total/NA	Water	608	103430
LCS 240-103430/10-A	Lab Control Sample	Total/NA	Water	608	103430
MB 240-103430/9-A	Method Blank	Total/NA	Water	608	103430

QC Sample Results

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

TestAmerica Job ID: 240-29277-1

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

Lab Sample ID: MB 240-102782/5

Matrix: Water

Analysis Batch: 102782

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.22	ug/L			09/24/13 20:01	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			09/24/13 20:01	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			09/24/13 20:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		81 - 112					09/24/13 20:01	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 125					09/24/13 20:01	1
Toluene-d8 (Surr)	95		84 - 110					09/24/13 20:01	1

Lab Sample ID: LCS 240-102782/6

Matrix: Water

Analysis Batch: 102782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	20.0	16.5		ug/L		82	10 - 251
1,2-Dichloroethane	20.0	18.0		ug/L		90	49 - 155
Trichloroethene	20.0	19.3		ug/L		96	71 - 157
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		81 - 112				
1,2-Dichloroethane-d4 (Surr)	97		80 - 125				
Toluene-d8 (Surr)	97		84 - 110				

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

Lab Sample ID: MB 240-103430/9-A

Matrix: Water

Analysis Batch: 103579

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		09/30/13 07:43	10/01/13 12:52	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		09/30/13 07:43	10/01/13 12:52	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		09/30/13 07:43	10/01/13 12:52	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		09/30/13 07:43	10/01/13 12:52	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		09/30/13 07:43	10/01/13 12:52	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		09/30/13 07:43	10/01/13 12:52	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		09/30/13 07:43	10/01/13 12:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		10 - 114				09/30/13 07:43	10/01/13 12:52	1
Tetrachloro-m-xylene	90		15 - 131				09/30/13 07:43	10/01/13 12:52	1

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-29277-1

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

Lab Sample ID: LCS 240-103430/10-A

Matrix: Water

Analysis Batch: 103579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	2.70		ug/L		108	50 - 114
Aroclor-1260	2.50	2.71		ug/L		108	8 - 127
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	66		10 - 114				
Tetrachloro-m-xylene	85		15 - 131				

Surrogate Summary

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

TestAmerica Job ID: 240-29277-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (81-112)	12DCE (80-125)	TOL (84-110)
240-29277-1	GW-17303-091913-DB-001	85	96	92
240-29277-2	TB-17303-091913	81	95	93
LCS 240-102782/6	Lab Control Sample	97	97	97
MB 240-102782/5	Method Blank	91	101	95

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (10-114)	TCX2 (15-131)
240-29277-1	GW-17303-091913-DB-001	5 X	73
LCS 240-103430/10-A	Lab Control Sample	66	85
MB 240-103430/9-A	Method Blank	64	90

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: 240-29277-1

Client Sample ID: GW-17303-091913-DB-001

Lab Sample ID: 240-29277-1

Date Collected: 09/19/13 11:00

Matrix: Water

Date Received: 09/20/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	102782	09/25/13 01:14	TJL1	TAL CAN
Total/NA	Prep	3510C			103430	09/30/13 07:43	BPM	TAL CAN
Total/NA	Analysis	608		1	103579	10/01/13 11:55	LSH	TAL CAN

Client Sample ID: TB-17303-091913

Lab Sample ID: 240-29277-2

Date Collected: 09/19/13 00:00

Matrix: Water

Date Received: 09/20/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	102782	09/25/13 01:38	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: 240-29277-1

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	06-30-14
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	07-31-14 *
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Nevada	State Program	9	OH-000482008A	07-31-14
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	08-31-14 *
Texas	NELAP	6		08-31-14 *
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-14
Washington	State Program	10	C971	01-12-14
Wisconsin	State Program	5	999518190	08-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton

Login # : 29277

Client CRA / Site Name /

Cooler unpacked by:

Cooler Received on 9/20/13 Opened on 9/20/13

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

TestAmerica Cooler #	241-244	Foam Box	Client Cooler	Box	Other
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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 +2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 4 (CF 0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 5 (CF +2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 8 (CF -0 °C) 7.2 Observed Cooler Temp. 3.2 °C

☐ See Multiple
Cooler Form
~~Corrected~~

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
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Concerning

Samples processed by:

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)

Sample(s) were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____