

Landale, Beth

From: PThomas@ycua.org
Sent: Monday, November 19, 2012 11:03 AM
To: Landale, Beth
Cc: Bains, Amandeep; Beck, Daniel; Project Email Hold; Luther Blackburn
Subject: RE: FW: Industrial User Permit #RA 12-15 - 2901TylerRoad~COR-017303~

Hello Beth,
The analytical report supports your decision to discharge to the Publicly Owned Treatment Works.
Please proceed.
Thank - you

Perry M. Thomas
Chief Compliance Officer
Ypsilanti Community Utilities Authority
2777 State Road
Ypsilanti, Michigan 48198-9112
pthomas@YCUA.org
Office: (734) 484-4600 Ext. 121
Fax: (734) 544-7149

>>> "Landale, Beth" <blandale@croworld.com> 11/19/2012 10:24 AM >>>

Hi Perry,

Attached you will find the results of the grab sample (WW-17303-111412-DB-001) we collected last week after treating the accumulated water with sodium permanganate. All constituents of concern are well below any limits in our permit. We will be discharging the water tomorrow and collecting our required semi-annual analysis samples.

If you have any questions, please let me know.

Thanks

Beth

Beth Landale P.Eng., P.E.
Conestoga-Rovers & Associates (CRA)
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Plymouth, Michigan 48170

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Perform every task the safe way, the right way, every time!

-----Original Message-----

From: Landale, Beth
Sent: Tuesday, November 13, 2012 10:53 PM
To: PThomas@ycua.org
Cc: Project Email Hold; Luther Blackburn; Bains, Amandeep
Subject: RE: FW: Industrial User Permit #RA 12-15 - 2901 TylerRoad~COR-017303~

Hi Perry,

Per our discussion today, we have accumulated approximately 12,250 gallons of water since our last treatment and discharge at the end of June. We made some changes to the system (new carbon, larger units, slower flow rate) and treated 1,400 gallons without discharging (containerized water in totes). We sampled the discharge and had detectable concentrations of VOCs, albeit below discharge limits, in the discharge. Based on these results, and the fact that this will be our last treatment prior to decommissioning for the winter, we do not want to treat through the carbon and risk rinsing vinyl chloride off the second carbon vessel and into the discharge. Therefore we are planning to treat the accumulated water with sodium permanganate as we did in June. We will treat the tank until the water is purple, which will indicate all of the VOCs have reacted with the permanganate. We will collect a grab sample from the tank post treatment and analyze it for VOCs. Provided the data confirms the success of the treatment we will submit the results to you and then discharge through bag filters to the discharge manhole. We will not be sending the treated water through the carbon units, as we do not want to rinse the vinyl chloride off the carbon, which is what we believe occurred in June.

Our anticipated schedule is the following:

Wednesday November 14 - treat tank with sodium permanganate and collect treated water sample.
Friday November 16 - obtain rush results from the laboratory & notify YCUA of results (likely end of day).

Early the following week - discharge to YCUA manhole and collect required discharge/semi-annual samples during discharge.

From previous conversations with Luther, I believe he wanted to collect a VOC grab sample during our next treatment, so if YCUA has a preference for the day we discharge (Mon, Tues or Wed before thanksgiving), please let me know.

We have ceased recovering water for the winter and will decommission (empty and remove carbon units from the Site) for following this discharge. Over the winter we will re-evaluate the setup and treatment for use next spring.

If you have any questions or concerns, please let me know.

Thanks,
Beth

-----Original Message-----

From: PThomas@ycua.org [mailto:PTThomas@ycua.org]

Sent: Monday, August 13, 2012 4:22 PM

To: Landale, Beth

Cc: Project Email Hold; Luther Blackburn

Subject: Re: FW: Industrial User Permit #RA 12-15 - 2901 TylerRoad~COR-017303~ ~COR-017303~

Hello Beth,

Please proceed as stated in Luther Blackburn's reply on August 8, 2012 to you concerning the next self- monitoring sampling event.

Thank - you

Perry M. Thomas
Chief Compliance Officer
Ypsilanti Community Utilities Authority

2777 State Road
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>>> "Landale, Beth" <blandale@croworld.com> 8/8/2012 8:12 AM >>>
Hi Luther,

I sent a few emails to Perry last week and tried to call him today and realized he's out of the office until next Monday. I didn't get any response on an email I had sent indicating that we won't be submitting data by August 9th as was requested in the Notice of Violation as we have not collected sufficient water in the tank to treat to get a representative sample. I was hoping to get an acknowledgement that YCUA is okay with the approach we have indicated below. So in Perry's absence this week I'm sending this to you.

If you have any questions, please let us know.

Thanks,

Beth

From: Landale, Beth
Sent: Friday, August 03, 2012 10:30 AM
To: 'pthomas@YCUA.org'
Subject: RE: Industrial User Permit #RA 12-15 - 2901 Tyler Road~COR-017303~

Hi Perry,

I just wanted to confirm with you that our approach below for submitting data later in August is okay with YCUA.

Please advise.

Thanks,

Beth

From: Landale, Beth
Sent: Monday, July 30, 2012 11:18 AM
To: 'pthomas@YCUA.org'
Cc: Bains, Amandeep; 'Grant Trigger'; Dave Favero; Project Email Hold
Subject: Industrial User Permit #RA 12-15 - 2901 Tyler Road~COR-017303~

Hi Perry,

Per our conversation today, due to the hot dry weather, we are not accumulating very much water from our recovery system. The July 9, 2012 Notice of Violation issued by YCUA states that we are required to repeat the sampling and pollutant analysis for vinyl chloride and provide the data to YCUA by August 9th, 2012. Due to the low volume of accumulated water over the last month, we are requesting an extension to the August 9th deadline. Once sufficient water has been accumulated to effectively treat the water through the system, it will be sampled and analyzed. The treated water will not be discharged to the permitted YCUA manhole prior to receiving the sample analysis results confirming the treatment is effective.

If you have any questions, please let me know.
Thanks,

Beth

Beth Landale P.Eng., P.E.

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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: 240-17610-1

Client Project/Site: 17303-T02-013, RACER CVO

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman



Authorized for release by:

11/16/2012 3:13:12 PM

Denise Heckler

Project Manager II

denise.heckler@testamericainc.com

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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-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

Job ID: 240-17610-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-013, RACER CVO

Report Number: 240-17610-1

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 North 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 11/15/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.3 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WW-17303-111412-DB-001 (240-17610-1) and TB-17303-111412 (240-17610-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/16/2012.

1,2,4-Trichlorobenzene and Methylene Chloride were detected in method blank MB 240-65356/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample WW-17303-111412-DB-001 (240-17610-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 11/15/2012 and analyzed on 11/16/2012.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

Job ID: 240-17610-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

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Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

Glossary

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

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-17610-1	WW-17303-111412-DB-001	Water	11/14/12 13:30	11/15/12 09:15
240-17610-2	TB-17303-111412	Water	11/14/12 00:00	11/15/12 09:15

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

Client Sample ID: WW-17303-111412-DB-001

Lab Sample ID: 240-17610-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	20		10	1.1	ug/L	1		8260B	Total/NA
Benzene	14		1.0	0.13	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	1.8	J	10	0.57	ug/L	1		8260B	Total/NA
Carbon disulfide	0.14	J	5.0	0.13	ug/L	1		8260B	Total/NA
Chlorobenzene	1.2		1.0	0.15	ug/L	1		8260B	Total/NA
Chloroform	0.16	J	1.0	0.16	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.5		1.0	0.22	ug/L	1		8260B	Total/NA
Ethylbenzene	0.24	J	1.0	0.17	ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	3.2	J	10	0.32	ug/L	1		8260B	Total/NA
Toluene	4.5		1.0	0.13	ug/L	1		8260B	Total/NA
1,1,1,2-Trichloroethane	2.7		1.0	0.27	ug/L	1		8260B	Total/NA
Cyclohexane	0.84	J	1.0	0.12	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	0.69	J B	1.0	0.15	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	0.45	J	1.0	0.14	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.1		1.0	0.13	ug/L	1		8260B	Total/NA
Methylcyclohexane	0.77	J	1.0	0.13	ug/L	1		8260B	Total/NA

Client Sample ID: TB-17303-111412

Lab Sample ID: 240-17610-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	10	1.1	ug/L	1		8260B	Total/NA

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Protocol References:

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

Laboratory References:

TAL NC = 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-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Client Sample ID: WW-17303-111412-DB-001

Lab Sample ID: 240-17610-1

Date Collected: 11/14/12 13:30

Matrix: Water

Date Received: 11/15/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20		10	1.1	ug/L			11/16/12 14:20	1
Benzene	14		1.0	0.13	ug/L			11/16/12 14:20	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			11/16/12 14:20	1
Bromoform	1.0	U	1.0	0.64	ug/L			11/16/12 14:20	1
Bromomethane	1.0	U	1.0	0.41	ug/L			11/16/12 14:20	1
2-Butanone (MEK)	1.8	J	10	0.57	ug/L			11/16/12 14:20	1
Carbon disulfide	0.14	J	5.0	0.13	ug/L			11/16/12 14:20	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			11/16/12 14:20	1
Chlorobenzene	1.2		1.0	0.15	ug/L			11/16/12 14:20	1
Chloroethane	1.0	U	1.0	0.29	ug/L			11/16/12 14:20	1
Chloroform	0.16	J	1.0	0.16	ug/L			11/16/12 14:20	1
Chloromethane	1.0	U	1.0	0.30	ug/L			11/16/12 14:20	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			11/16/12 14:20	1
1,2-Dichloroethane	2.5		1.0	0.22	ug/L			11/16/12 14:20	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/12 14:20	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			11/16/12 14:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			11/16/12 14:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			11/16/12 14:20	1
Ethylbenzene	0.24	J	1.0	0.17	ug/L			11/16/12 14:20	1
2-Hexanone	10	U	10	0.41	ug/L			11/16/12 14:20	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			11/16/12 14:20	1
4-Methyl-2-pentanone (MIBK)	3.2	J	10	0.32	ug/L			11/16/12 14:20	1
Styrene	1.0	U	1.0	0.11	ug/L			11/16/12 14:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			11/16/12 14:20	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			11/16/12 14:20	1
Toluene	4.5		1.0	0.13	ug/L			11/16/12 14:20	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			11/16/12 14:20	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			11/16/12 14:20	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			11/16/12 14:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			11/16/12 14:20	1
1,1,2-Trichloroethane	2.7		1.0	0.27	ug/L			11/16/12 14:20	1
Cyclohexane	0.84	J	1.0	0.12	ug/L			11/16/12 14:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			11/16/12 14:20	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			11/16/12 14:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/12 14:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			11/16/12 14:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/12 14:20	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			11/16/12 14:20	1
Methyl acetate	10	U	10	0.38	ug/L			11/16/12 14:20	1
Methyl tert-butyl ether	5.0	U	5.0	0.17	ug/L			11/16/12 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			11/16/12 14:20	1
1,2,4-Trichlorobenzene	0.69	J B	1.0	0.15	ug/L			11/16/12 14:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			11/16/12 14:20	1
1,3-Dichlorobenzene	0.45	J	1.0	0.14	ug/L			11/16/12 14:20	1
1,4-Dichlorobenzene	1.1		1.0	0.13	ug/L			11/16/12 14:20	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			11/16/12 14:20	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			11/16/12 14:20	1
Methylcyclohexane	0.77	J	1.0	0.13	ug/L			11/16/12 14:20	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		63 - 129		11/16/12 14:20	1
4-Bromofluorobenzene (Surr)	82		66 - 117		11/16/12 14:20	1
Toluene-d8 (Surr)	84		74 - 115		11/16/12 14:20	1
Dibromofluoromethane (Surr)	76		75 - 121		11/16/12 14:20	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Client Sample ID: TB-17303-111412

Date Collected: 11/14/12 00:00

Date Received: 11/15/12 09:15

Lab Sample ID: 240-17610-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.7	J	10	1.1	ug/L			11/16/12 14:42	1
Benzene	1.0	U	1.0	0.13	ug/L			11/16/12 14:42	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			11/16/12 14:42	1
Bromoform	1.0	U	1.0	0.64	ug/L			11/16/12 14:42	1
Bromomethane	1.0	U	1.0	0.41	ug/L			11/16/12 14:42	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			11/16/12 14:42	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			11/16/12 14:42	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			11/16/12 14:42	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/16/12 14:42	1
Chloroethane	1.0	U	1.0	0.29	ug/L			11/16/12 14:42	1
Chloroform	1.0	U	1.0	0.16	ug/L			11/16/12 14:42	1
Chloromethane	1.0	U	1.0	0.30	ug/L			11/16/12 14:42	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			11/16/12 14:42	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/16/12 14:42	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/12 14:42	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			11/16/12 14:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			11/16/12 14:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			11/16/12 14:42	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			11/16/12 14:42	1
2-Hexanone	10	U	10	0.41	ug/L			11/16/12 14:42	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			11/16/12 14:42	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			11/16/12 14:42	1
Styrene	1.0	U	1.0	0.11	ug/L			11/16/12 14:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			11/16/12 14:42	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			11/16/12 14:42	1
Toluene	1.0	U	1.0	0.13	ug/L			11/16/12 14:42	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			11/16/12 14:42	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			11/16/12 14:42	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			11/16/12 14:42	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			11/16/12 14:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			11/16/12 14:42	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			11/16/12 14:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			11/16/12 14:42	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			11/16/12 14:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/12 14:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			11/16/12 14:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/12 14:42	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			11/16/12 14:42	1
Methyl acetate	10	U	10	0.38	ug/L			11/16/12 14:42	1
Methyl tert-butyl ether	5.0	U	5.0	0.17	ug/L			11/16/12 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			11/16/12 14:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			11/16/12 14:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			11/16/12 14:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			11/16/12 14:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			11/16/12 14:42	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			11/16/12 14:42	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			11/16/12 14:42	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			11/16/12 14:42	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		63 - 129		11/16/12 14:42	1
4-Bromofluorobenzene (Surr)	82		66 - 117		11/16/12 14:42	1
Toluene-d8 (Surr)	92		74 - 115		11/16/12 14:42	1
Dibromofluoromethane (Surr)	90		75 - 121		11/16/12 14:42	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Client Sample ID: WW-17303-111412-DB-001

Date Collected: 11/14/12 13:30

Date Received: 11/15/12 09:15

Lab Sample ID: 240-17610-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.097	U	0.097	0.043	ug/L		11/15/12 14:32	11/16/12 08:59	1
Aroclor-1221	0.097	U	0.097	0.044	ug/L		11/15/12 14:32	11/16/12 08:59	1
Aroclor-1232	0.097	U	0.097	0.071	ug/L		11/15/12 14:32	11/16/12 08:59	1
Aroclor-1242	0.097	U	0.097	0.058	ug/L		11/15/12 14:32	11/16/12 08:59	1
Aroclor-1248	0.097	U	0.097	0.059	ug/L		11/15/12 14:32	11/16/12 08:59	1
Aroclor-1254	0.097	U	0.097	0.031	ug/L		11/15/12 14:32	11/16/12 08:59	1
Aroclor-1260	0.097	U	0.097	0.037	ug/L		11/15/12 14:32	11/16/12 08:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		35 - 137				11/15/12 14:32	11/16/12 08:59	1
DCB Decachlorobiphenyl	29		10 - 140				11/15/12 14:32	11/16/12 08:59	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

GC/MS VOA

Analysis Batch: 65356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17610-1	WW-17303-111412-DB-001	Total/NA	Water	8260B	
240-17610-2	TB-17303-111412	Total/NA	Water	8260B	
LCS 240-65356/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-65356/5	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 65219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17610-1	WW-17303-111412-DB-001	Total/NA	Water	3510C	
LCS 240-65219/4-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-65219/3-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 65269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17610-1	WW-17303-111412-DB-001	Total/NA	Water	8082	65219
LCS 240-65219/4-A	Lab Control Sample	Total/NA	Water	8082	65219
MB 240-65219/3-A	Method Blank	Total/NA	Water	8082	65219

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Lab Sample ID: MB 240-65356/5

Matrix: Water

Analysis Batch: 65356

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L			11/16/12 13:31	1
Benzene	1.0	U	1.0	0.13	ug/L			11/16/12 13:31	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			11/16/12 13:31	1
Bromoform	1.0	U	1.0	0.64	ug/L			11/16/12 13:31	1
Bromomethane	1.0	U	1.0	0.41	ug/L			11/16/12 13:31	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			11/16/12 13:31	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			11/16/12 13:31	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			11/16/12 13:31	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/16/12 13:31	1
Chloroethane	1.0	U	1.0	0.29	ug/L			11/16/12 13:31	1
Chloroform	1.0	U	1.0	0.16	ug/L			11/16/12 13:31	1
Chloromethane	1.0	U	1.0	0.30	ug/L			11/16/12 13:31	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			11/16/12 13:31	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/16/12 13:31	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/12 13:31	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			11/16/12 13:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			11/16/12 13:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			11/16/12 13:31	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			11/16/12 13:31	1
2-Hexanone	10	U	10	0.41	ug/L			11/16/12 13:31	1
Methylene Chloride	0.713	J	5.0	0.33	ug/L			11/16/12 13:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			11/16/12 13:31	1
Styrene	1.0	U	1.0	0.11	ug/L			11/16/12 13:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			11/16/12 13:31	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			11/16/12 13:31	1
Toluene	1.0	U	1.0	0.13	ug/L			11/16/12 13:31	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			11/16/12 13:31	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			11/16/12 13:31	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			11/16/12 13:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			11/16/12 13:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			11/16/12 13:31	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			11/16/12 13:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			11/16/12 13:31	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			11/16/12 13:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			11/16/12 13:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			11/16/12 13:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/12 13:31	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			11/16/12 13:31	1
Methyl acetate	10	U	10	0.38	ug/L			11/16/12 13:31	1
Methyl tert-butyl ether	5.0	U	5.0	0.17	ug/L			11/16/12 13:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			11/16/12 13:31	1
1,2,4-Trichlorobenzene	0.512	J	1.0	0.15	ug/L			11/16/12 13:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			11/16/12 13:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			11/16/12 13:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			11/16/12 13:31	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			11/16/12 13:31	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			11/16/12 13:31	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			11/16/12 13:31	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Lab Sample ID: MB 240-65356/5

Matrix: Water

Analysis Batch: 65356

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129		11/16/12 13:31	1
4-Bromofluorobenzene (Surr)	75		66 - 117		11/16/12 13:31	1
Toluene-d8 (Surr)	88		74 - 115		11/16/12 13:31	1
Dibromofluoromethane (Surr)	78		75 - 121		11/16/12 13:31	1

Lab Sample ID: LCS 240-65356/4

Matrix: Water

Analysis Batch: 65356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	17.6		ug/L		88	43 - 136
Benzene	10.0	9.82		ug/L		98	83 - 112
Bromodichloromethane	10.0	9.02		ug/L		90	72 - 121
Bromoform	10.0	8.61		ug/L		86	40 - 131
Bromomethane	10.0	7.15		ug/L		72	11 - 185
2-Butanone (MEK)	20.0	20.2		ug/L		101	60 - 126
Carbon disulfide	10.0	8.73		ug/L		87	62 - 142
Carbon tetrachloride	10.0	8.89		ug/L		89	66 - 128
Chlorobenzene	10.0	9.53		ug/L		95	85 - 110
Chloroethane	10.0	9.29		ug/L		93	25 - 153
Chloroform	10.0	8.87		ug/L		89	79 - 117
Chloromethane	10.0	8.35		ug/L		83	44 - 126
1,1-Dichloroethane	10.0	9.49		ug/L		95	82 - 115
1,2-Dichloroethane	10.0	8.89		ug/L		89	71 - 127
1,1-Dichloroethene	10.0	9.10		ug/L		91	78 - 131
1,2-Dichloropropane	10.0	9.85		ug/L		98	81 - 115
cis-1,3-Dichloropropene	10.0	8.99		ug/L		90	61 - 115
trans-1,3-Dichloropropene	10.0	10.1		ug/L		101	58 - 117
Ethylbenzene	10.0	10.1		ug/L		101	83 - 112
2-Hexanone	20.0	19.5		ug/L		98	55 - 133
Methylene Chloride	10.0	11.0		ug/L		110	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	19.3		ug/L		97	63 - 128
Styrene	10.0	10.3		ug/L		103	79 - 114
1,1,2,2-Tetrachloroethane	10.0	9.88		ug/L		99	68 - 118
Tetrachloroethene	10.0	9.70		ug/L		97	79 - 114
Toluene	10.0	10.1		ug/L		101	84 - 111
Trichloroethene	10.0	8.86		ug/L		89	76 - 117
Vinyl chloride	10.0	7.67		ug/L		77	53 - 127
Xylenes, Total	30.0	30.4		ug/L		101	83 - 112
1,1,1-Trichloroethane	10.0	9.00		ug/L		90	74 - 118
1,1,2-Trichloroethane	10.0	9.86		ug/L		99	80 - 112
Cyclohexane	10.0	9.28		ug/L		93	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	9.46		ug/L		95	42 - 136
1,2-Dibromoethane	10.0	9.86		ug/L		99	79 - 113
Dichlorodifluoromethane	10.0	10.1		ug/L		101	19 - 129
cis-1,2-Dichloroethene	10.0	9.03		ug/L		90	80 - 113
trans-1,2-Dichloroethene	10.0	9.25		ug/L		92	83 - 117
Isopropylbenzene	10.0	9.80		ug/L		98	75 - 114

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Lab Sample ID: LCS 240-65356/4

Matrix: Water

Analysis Batch: 65356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	10.0	9.34	J	ug/L		93	58 - 131
Methyl tert-butyl ether	10.0	7.49		ug/L		75	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.1		ug/L		101	74 - 151
1,2,4-Trichlorobenzene	10.0	8.87		ug/L		89	48 - 135
1,2-Dichlorobenzene	10.0	9.83		ug/L		98	81 - 110
1,3-Dichlorobenzene	10.0	9.43		ug/L		94	80 - 110
1,4-Dichlorobenzene	10.0	9.33		ug/L		93	82 - 110
Trichlorofluoromethane	10.0	9.30		ug/L		93	49 - 157
Dibromochloromethane	10.0	9.03		ug/L		90	64 - 119
Methylcyclohexane	10.0	8.12		ug/L		81	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		63 - 129
4-Bromofluorobenzene (Surr)	92		66 - 117
Toluene-d8 (Surr)	91		74 - 115
Dibromofluoromethane (Surr)	79		75 - 121

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

Lab Sample ID: MB 240-65219/3-A

Matrix: Water

Analysis Batch: 65269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		11/15/12 14:32	11/16/12 09:29	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		11/15/12 14:32	11/16/12 09:29	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		11/15/12 14:32	11/16/12 09:29	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		11/15/12 14:32	11/16/12 09:29	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		11/15/12 14:32	11/16/12 09:29	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		11/15/12 14:32	11/16/12 09:29	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		11/15/12 14:32	11/16/12 09:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		35 - 137	11/15/12 14:32	11/16/12 09:29	1
DCB Decachlorobiphenyl	76		10 - 140	11/15/12 14:32	11/16/12 09:29	1

Lab Sample ID: LCS 240-65219/4-A

Matrix: Water

Analysis Batch: 65269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	2.27		ug/L		91	56 - 130
Aroclor-1260	2.50	2.43		ug/L		97	43 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	85		35 - 137

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Lab Sample ID: LCS 240-65219/4-A

Matrix: Water

Analysis Batch: 65269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65219

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	82		10 - 140

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (63-129)	BFB (66-117)	TOL (74-115)	DBFM (75-121)
240-17610-1	WW-17303-111412-DB-001	79	82	84	76
240-17610-2	TB-17303-111412	90	82	92	90
LCS 240-65356/4	Lab Control Sample	78	92	91	79
MB 240-65356/5	Method Blank	81	75	88	78

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (35-137)	DCB2 (10-140)
240-17610-1	WW-17303-111412-DB-001	83	29
LCS 240-65219/4-A	Lab Control Sample	85	82
MB 240-65219/3-A	Method Blank	83	76

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

Client Sample ID: WW-17303-111412-DB-001

Lab Sample ID: 240-17610-1

Date Collected: 11/14/12 13:30

Matrix: Water

Date Received: 11/15/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	65356	11/16/12 14:20	LW	TAL NC
Total/NA	Prep	3510C			65219	11/15/12 14:32	LM	TAL NC
Total/NA	Analysis	8082		1	65269	11/16/12 08:59	LH	TAL NC

Client Sample ID: TB-17303-111412

Lab Sample ID: 240-17610-2

Date Collected: 11/14/12 00:00

Matrix: Water

Date Received: 11/15/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	65356	11/16/12 14:42	LW	TAL NC

Laboratory References:

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

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-013, RACER CVO

TestAmerica Job ID: 240-17610-1

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	NELAC	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAC	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAC	5	200004	07-31-13
Kansas	NELAC	7	E-10336	01-31-13
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAC	5	039-999-348	12-31-12
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAC	2	OH001	06-30-13
New York	NELAC	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAC	3	68-00340	08-31-13
Texas	NELAC	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAC	3	460175	09-14-13
Washington	State Program	10	C971	01-12-13
West Virginia DEP	State Program	3	210	12-31-12
Wisconsin	State Program	5	999518190	08-31-13



CHAIN OF CUSTODY RECORD

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

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: PL-10290

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(See Reverse Side for Instructions)

Project No/Phase/Task Code: 17303-T02-01Y12		Laboratory Name: Test America		Lab Location: N. Canton, OH		SSOW ID: 3064-T02-013	
Project Name: CVO		Lab Contact: D. Heckler		Lab Quote No: 2		Cooler No:	
Project Location: Ypsilanti, MI		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: Fed Ex	
Chemistry Contact: Paul Wiseman		SAMPLE TYPE		Total Containers/Sample		Airbill No:	
Sampler(s): Daniel Beck		Matrix Code		Other:		Date Shipped: 11-14-2012	
SAMPLE IDENTIFICATION (Containers for each sample must be container on container)		DATE (mm/dd/yyyy)		TIME (hh:mm)		MS/MSD Request	
1 WW-17303-111412-DB-001		11/14/12		1330		TCL VOLs	
2 TB-17303-111412		11/14/12		---		Total PCBs	
3						5	
4						1	
5						X	
6						X	
7						X	
8						X	
9						X	
10						X	
11						X	
12						X	
13						X	
14						X	
15						X	
16						X	
17						X	
18						X	
19						X	
20						X	
21						X	
22						X	
23						X	
24						X	
25						X	
26						X	
27						X	
28						X	
29						X	
30						X	
31						X	
32						X	
33						X	
34						X	
35						X	
36						X	
37						X	
38						X	
39						X	
40						X	
41						X	
42						X	
43						X	
44						X	
45						X	
46						X	
47						X	
48						X	
49						X	
50						X	
51						X	
52						X	
53						X	
54						X	
55						X	
56						X	
57						X	
58						X	
59						X	
60						X	
61						X	
62						X	
63						X	
64						X	
65						X	
66						X	
67						X	
68						X	
69						X	
70						X	
71						X	
72						X	
73						X	
74						X	
75						X	
76						X	
77						X	
78						X	
79						X	
80						X	
81						X	
82						X	
83						X	
84						X	
85						X	
86						X	
87						X	
88						X	
89						X	
90						X	
91						X	
92						X	
93						X	
94						X	
95						X	
96						X	
97						X	
98							

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

WHITE – Fully Executed Copy (CRA)

YELLOW – Receiving Laboratory Copy

PINK – Shipper

GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative

Login # : 17610

Client CRA Site Name CVD By: Ch. Lujil
Cooler Received on 11/15/12 Opened on 11/15/12 (Signature)
FedEx: 1st Grd ☒ UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____
TestAmerica Cooler # _____ Foam Box ☒ Client Cooler Box Other _____
Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____
COOLANT: ☒ Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
IR GUN# 4G (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
IR GUN# 5G (CF 0 °C) Observed Sample Temp. 4.3 °C Corrected Sample Temp. 4.3 °C
IR GUN# 8 (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

☐ Multiple
on Back

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 ☒
-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 ☒
11. Were VOAs on the COC? Yes ☒ No ☒
12. Were air bubbles >6 mm in any VOA vials? Yes ☒ No ☒
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

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)

Age	Number of people
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15

Age	Number of people
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15

Age	Number of people
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-17610-1

Login Number: 17610

List Source: TestAmerica Canton

List Number: 1

Creator: Maddux, Ann

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	REFER TO COOLER RECEIPT FORM
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	