

Puton BKRTS
1/29/15
(94)

Richard, Philip E - DNR

From: Ree, Timothy <tree@craworld.com>
Sent: Wednesday, January 28, 2015 6:34 PM
To: Richard, Philip E - DNR
Cc: Endsley, Erin A - DNR; Frehner, Ron; Storlie, Pete; Sandberg, Brian
Subject: Penta Wood - WPDES Compliance Sampling 1/22/2015 ~COR-086165~
Attachments: J46609-1 UDS Level 2 Report Final Report.pdf

Phil,

Please find attached a copy of the laboratory report for the WPDES compliance effluent sample collected at the Penta Wood site on 1/22/2015. PCP was detected at a concentration of 0.29 ug/L, which exceeds the permit limit of 0.1 ug/L. This represents the first sample collected after the carbon change-out and restarting the system. This also is the first sample collected in January; therefore, this result does not represent a noncompliance of the substantive WPDES permit requirements since additional weekly effluent sampling is required to determine the monthly average.

Based on CRA's review of the August through December 2014 influent data which had elevated PCP levels, we believe that the presence of small amounts of emulsified LNAPL in the influent water may be the cause of the increased PCP levels in the influent water. These small amount of emulsified LNAPL may be preventing treatment to the substantive permit limit by utilizing activated carbon only. CRA recommends that the system continue to operate while we evaluate corrective actions since the effluent concentration is less than 1 ug/L.

As part of a subsequent trouble shooting, CRA recommends that individual influent samples be collected from each groundwater extraction well for laboratory analysis of pentachlorophenol, WI-DRO, and oil and grease on an expedited turn-around-time basis (5-day). The purpose of this sampling is to identify which extraction wells may be contributing to the increased influent concentration detected in December 2014 and where emulsified LNAPL is being extracted.

The additional associated cost with the influent sampling recommended above is estimated to be approximately \$5,000. This cost includes laboratory analyses, sample shipping, and CRA labor.

Please update Kathy Bartilson (WDNR) and Linda Martin (USEPA).

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

Regards,

Tim Ree
Conestoga-Rovers & Associates (CRA)
1801 Old Highway 8 NW, Suite 114
St Paul, MN 55112

Phone: 651.639.0913
Direct: 651.639-0439 (ext. 338)
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Fax: 651.639.0923
Email: tree@CRAworld.com
www.CRAworld.com

Think before you print 
Perform every task the safe way, the right way, every time!

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CRA and GHD have merged! To learn more, visit www.CRAworld.com/ghd

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: 240-46609-1

Client Project/Site: 86165-01-01, Penta Wood

For:

Conestoga-Rovers & Associates, Inc.
1801 Old Highway 8 NW
Suite 114
St. Paul, Minnesota 55112

Attn: Mr. Grant Anderson



Authorized for release by:
1/27/2015 10:58:58 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?

 **Ask
The
Expert**

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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Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Qualifiers

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
CFL	Contains Free Liquid
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)

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Job ID: 240-46609-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 86165-01-01, Penta Wood

Report Number: 240-46609-1

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 01/23/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.5 C.

CHLORINATED HERBICIDES

Sample W-150122-PS-WE (240-46609-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 01/24/2015 and analyzed on 01/27/2015.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	TAL PIT

Protocol References:

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

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-46609-1	W-150122-PS-WE	Water	01/22/15 10:00	01/23/15 09:20

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Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Client Sample ID: W-150122-PS-WE

Lab Sample ID: 240-46609-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.29		0.095	0.015	ug/L	4		8151A	Total/NA



This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Client Sample ID: W-150122-PS-WE

Lab Sample ID: 240-46609-1

Date Collected: 01/22/15 10:00

Matrix: Water

Date Received: 01/23/15 09:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.29		0.095	0.015	ug/L		01/24/15 11:00	01/27/15 09:06	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	89		32 - 140				01/24/15 11:00	01/27/15 09:06	4

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Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1 (32-140)	DCPA2 (32-140)
240-46609-1	W-150122-PS-WE	86	89
LCS 180-131640/2-A	Lab Control Sample	77	83
LCSD 180-131640/3-A	Lab Control Sample Dup	79	83
MB 180-131640/1-A	Method Blank	59	59

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid



QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-131640/1-A
Matrix: Water
Analysis Batch: 131720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131640

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	1.0	U	1.0	0.16	ug/L		01/24/15 11:00	01/27/15 08:45	4
Surrogate	MB MB		Limits			D	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
2,4-Dichlorophenylacetic acid	59		32 - 140				01/24/15 11:00	01/27/15 08:45	4

Lab Sample ID: LCS 180-131640/2-A
Matrix: Water
Analysis Batch: 131720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131640

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Pentachlorophenol	25.0	27.2		ug/L		109	40 - 140
Surrogate	LCS LCS		Limits			%Rec	%Rec. Limits
%Recovery	Qualifier						
2,4-Dichlorophenylacetic acid	83		32 - 140				

Lab Sample ID: LCSD 180-131640/3-A
Matrix: Water
Analysis Batch: 131720

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131640

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
Pentachlorophenol	25.0	28.4		ug/L		113	40 - 140	4	30
Surrogate	LCSD LCSD		Limits			%Rec	%Rec. Limits	RPD	Limit
%Recovery	Qualifier								
2,4-Dichlorophenylacetic acid	83		32 - 140						

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

GC Semi VOA

Prep Batch: 131640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-46609-1	W-150122-PS-WE	Total/NA	Water	8151A	
LCS 180-131640/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-131640/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-131640/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 131720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-46609-1	W-150122-PS-WE	Total/NA	Water	8151A	131640
LCS 180-131640/2-A	Lab Control Sample	Total/NA	Water	8151A	131640
LCSD 180-131640/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	131640
MB 180-131640/1-A	Method Blank	Total/NA	Water	8151A	131640



Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Client Sample ID: W-150122-PS-WE

Lab Sample ID: 240-46609-1

Date Collected: 01/22/15 10:00

Matrix: Water

Date Received: 01/23/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			131640	01/24/15 11:00	CBY	TAL PIT
Total/NA	Analysis	8151A		4	131720	01/27/15 09:06	JMO	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

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Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-46609-1

Laboratory: TestAmerica Canton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Pittsburgh

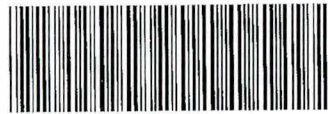
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-15
Connecticut	State Program	1	PH-0688	09-30-16
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	03-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-15
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-15
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-15
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-15 *

* Certification renewal pending - certification considered valid.



**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-46609 Chain of Custody





CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114

St. Paul, Minnesota 55112 United States

Phone: (651) 639-0913

Fax: (651) 639-0923

COC NO.: **SP-01292**

PAGE OF

(See Reverse Side for Instructions)

3.8/C4.5

Project No/ Phase/Task Code: <u>086165-01-01</u>		Laboratory Name: <u>Test America</u>		Lab Location: <u>N. Canton</u>		SSOW ID:	
Project Name: <u>Penta Wood - Siren</u>		Lab Contact:		Lab Quote No:		Cooler No:	
Project Location: <u>Siren, WI</u>		SAMPLE TYPE:		CONTAINER QUANTITY & PRESERVATION:		ANALYSIS REQUESTED (See Back of COC for Definitions)	
Chemistry Contact: <u>Grant Anderson</u>		Matrix Code (see back of COC):		Unpreserved		MS/MSD Request	
Sampler(s): <u>P. Storke</u>		Grab (G) or Comp (C): <u>WG2</u>		Hydrochloric Acid (HCl)		Carrier:	
Email: <u>ganderson@croworld.com</u>		Nitric Acid (HNO ₃)		Sulfuric Acid (H ₂ SO ₄)		Airbill No:	
		Sodium Hydroxide (NaOH)		Methanol/Water (Soil VOC)		Date Shipped:	
		EnCores 3x5-gr, 1x25-g		Other:		COMMENTS/SPECIAL INSTRUCTIONS:	
Item		SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yy)		TIME (hh:mm)	
1		<u>W-15D122-PS-WE</u>		<u>01/22/15</u>		<u>1000</u>	
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14							
15							
TAT Required in business days (use separate COCs for different TATs):				Total Number of Containers: <u>2</u>		Notes/ Special Requirements:	
<input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input checked="" type="checkbox"/> Other: <u>5-DAY</u>				All Samples in Cooler must be on COC			
RELINQUISHED BY:		COMPANY:		DATE:		TIME:	
<u>[Signature]</u>		<u>CRA</u>		<u>1/22/15</u>		<u>1200</u>	
RECEIVED BY:		COMPANY:		DATE:		TIME:	
<u>[Signature]</u>		<u>TA</u>		<u>1-23-15</u>		<u>920</u>	

5-DAY TAT

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 # : 416009

Client CRA Site Name _____

Cooler unpacked by:

Cooler Received on 1-23-15 Opened on 1-23-15

[Signature]

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

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

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# A (CF +4.0 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	<input type="checkbox"/> See Multiple Cooler Form
IR GUN# 4 (CF +1.2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 5 (CF +0.4 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8 (CF +0.7 °C)	Observed Cooler Temp. <u>3.6</u> °C	Corrected Cooler Temp. <u>4.5</u> °C	
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 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# HC425511
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): _____

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-46609-1

Login Number: 46609

List Source: TestAmerica Pittsburgh

List Number: 2

List Creation: 01/24/15 10:30 AM

Creator: Lonzo, Michael A

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

