Richard, Philip E - DNR

Rec 6/29/15
pot on BRESS
7/11/15

From:

Ree, Timothy <tree@craworld.com>

Sent:

Monday, June 29, 2015 11:15 AM

To: Cc: Richard, Philip E - DNR

CC.

Frehner, Ron; Storlie, Pete; Sandberg, Brian

Subject:

Penta Wood - WPDES Compliance Sampling 6/16/2015 ~COR-086165~

Attachments:

Lab Report-240-52066-1-086165-01-07-2015-06-24.pdf; Lab

Report-240-52067-1-086165-01-06-2015-06-24.pdf

Phil,

Please find attached the results for the effluent sample collected at the Penta Wood site on 6/16/2015. PCP was detected in the effluent sample at a concentration of 0.11 ug/L, which slightly exceeds the permit criteria of 0.1 ug/L. The average June 2015 effluent PCP concentration for the three sample results received from the lab is 0.096 ug/L, which meets the permit criteria. We collected an effluent sample on 6/22/2015 and should receive that result later this week. We plan to collect another effluent sample tomorrow (6/30/2015).

Please also find attached the results for the influent sample collected between the carbon units on 6/16/2015 to evaluate carbon exchange timing. PCP was detected in this sample at a concentration of 0.027 ug/L (estimated), which is less than the effluent sample and permit criteria. This result indicates that a carbon exchange is not necessary at this time. The lab confirmed that there were no errors with the reported results.

CRA recommends that we continue to operate the system and re-assess following the receipt of the remaining June 2015 sample results.

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

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

Regards,

Tim

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)

Cell: 651.592.7697 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!

This communication and any accompanying document(s) are confidential and are intended for the sole use of the addressee. If you are not the intended recipient, please notify me at the telephone number shown above or by return email and delete this e-mail and any copies. You are advised that any disclosure, copying, distribution, or the taking of any action in reliance upon the communication without consent is strictly prohibited. Thank you.



<u>TestAmerica</u>

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: 240-52066-1

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

DINUS DHICKLER

Authorized for release by:

6/24/2015 10:21:28 AM

Denise Heckler, Project Manager II (330)966-9477

denise.heckler@testamericainc.com

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

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

1

^

4

5

7

8

10

12

14

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

Table of Contents

Cover Page	1
	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Chain of Custody	14
Receipt Checklists	17

13

14

Definitions/Glossary

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

TestAmerica Job ID: 240-52066-1

2

Qualifiers

GC Semi VOA

Qualifier
-

Qualifier Description

Indicates the analyte was analyzed for but not detected.

Glossary

A la la manufa di a m	There commonly used abbusistings were assumed to a second in this would
Abbreviation	These commonly used abbreviations may or may not be present in this report.

Example 2 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: 240-52066-1

Job ID: 240-52066-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 86165-01-01, Penta Wood

Report Number: 240-52066-1

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

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

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

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

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

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

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

RECEIPT

The samples were received on 06/17/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

CHLORINATED HERBICIDES

Sample W-150616-TB-WE (240-52066-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 06/19/2015 and analyzed on 06/23/2015.

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.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 180-145582.

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

Method Description

Herbicides (GC)

TestAmerica Job ID: 240-52066-1

Protocol

SW846

Laboratory

TAL PIT

Protocol References:

Method

8151A

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: 240-52066-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-52066-1
 W-150616-TB-WE
 Water
 06/16/15 10:40
 06/17/15 09:20

5

6

8

9

ادا

Detection Summary

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

TestAmerica Job ID: 240-52066-1

Client	Sample	ID:	W-1	5061	6-TB	-WE
--------	--------	-----	-----	------	------	-----

Lab Sample ID: 240-52066-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.11	***************************************	0.094	0.015	ug/L	4	-	8151A	Total/NA

Client Sample Results

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

TestAmerica Job ID: 240-52066-1

Client Sample ID: W-150616-TB-WE

Lab Sample ID: 240-52066-1 Date Collected: 06/16/15 10:40

Matrix: Water

Date Received: 06/17/15 09:20

Method: 8151A - Herbicide Analyte	No. 197	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.11		0.094	0.015	ug/L		06/19/15 11:17	06/23/15 15:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	67	***************************************	32 - 140				06/19/15 11:17	06/23/15 15:40	4

Surrogate Summary

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

TestAmerica Job ID: 240-52066-1

2

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

			t Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2	
Lab Sample ID	Client Sample ID	(32-140)	(32-140)	
240-52066-1	W-150616-TB-WE	67	63	
LCS 180-145582/2-A	Lab Control Sample	88	86	
LCSD 180-145582/3-A	Lab Control Sample Dup	71	63	
MB 180-145582/1-A	Method Blank	67	69	
Surrogate Legend				

4

ß

7

8

9

12

13

QC Sample Results

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

TestAmerica Job ID: 240-52066-1

3

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-145582/1-A

Matrix: Water

Surrogate

Analysis Batch: 145849

2,4-Dichlorophenylacetic acid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 145582

Analyzed Dil Fac

 Analyte
 Result
 Qualifier
 RL
 MDL unit
 D prepared
 Analyzed
 Dil Fac

 Pentachlorophenol
 0.10
 0.10
 0.016
 ug/L
 06/19/15 11:17
 06/23/15 15:15
 4

 MB
 MB

 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 69
 32 - 140
 06/19/15 11:17
 06/23/15 15:15
 4

Lab Sample ID: LCS 180-145582/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 145849 Prep Batch: 145582 LCS LCS Spike %Rec. Limits Added Result Qualifier D %Rec Analyte Unit 40 - 140 Pentachlorophenol 5.00 5.54 111

LCS LCS
Surrogate %Recovery Qualifier Limits
2,4-Dichlorophenylacetic acid 88 32 - 140

MB MB

Lab Sample ID: LCSD 180-145582/3-A Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA Analysis Batch: 145849 Prep Batch: 145582 LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 5.00 102 40 - 140 8 Pentachlorophenol 5.11 ug/L

Surrogate%RecoveryQualifierLimits2,4-Dichlorophenylacetic acid7132 - 140

LCSD LCSD

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-52066-1

GC Semi VOA

Prep Batch: 145582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52066-1	W-150616-TB-WE	Total/NA	Water	8151A	
LCS 180-145582/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-145582/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-145582/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 145849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52066-1	W-150616-TB-WE	Total/NA	Water	8151A	145582
LCS 180-145582/2-A	Lab Control Sample	Total/NA	Water	8151A	145582
LCSD 180-145582/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	145582
MB 180-145582/1-A	Method Blank	Total/NA	Water	8151A	145582

3

Ę

.

6

7

o o

10

11

12

14

Lab Chronicle

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

TestAmerica Job ID: 240-52066-1

Client Sample ID: W-150616-TB-WE

Date Collected: 06/16/15 10:40 Date Received: 06/17/15 09:20 Lab Sample ID: 240-52066-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8151A	4	-	145582	06/19/15 11:17	JPM	TAL PIT
Total/NA	Analysis	8151A		4	145849	06/23/15 15:40	JMO	TAL PIT

Laboratory References:

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

5

6

В

(3)

12

IJ

14

Certification Summary

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

TestAmerica Job ID: 240-52066-1

•

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

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	998027800	08-31-15

6

7

9

12

14

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-52066 Chain of Custody



CHAIN OF CUSTODY RECORD 2.6/C36 COC NO.SP- 01649

1801 Old Highway 8 Northwest, Suite 114 St. Paul, Minnesota 55112 United States Phone: (651) 639-0913

Fax: (651) 639-0923

PAGE OF

(See Reverse Side for Instructions)

Project No/ Phase/Task C	ode: 0/65-01-	7	Lab	Cont	/ Nan	ne:	Am	ER1	CA			L	ab	Loca	tion:	(1	m	מעה	10,	+	SSOW ID:
Project Name: PEA	MANOOD	**************************************	Lab	Conta	ct:			,	<i></i>			L	.ab	Quo	te No	:	11 -	/		1	Cooler No:
Project Location:	REN WI	•	SAI	MPLE YPE		Con	PRES						: (UEST	TED nitions)	Carrier:
Project Name: Project Location: Chemistry Contact: CRANT ANDE Sampler(s): T. BRANN SAMPLE IDENTIFICA (Containers for each sample me	RSON GAA	OFRSUN GERA	awal Di	(S) dwo		Hydrochloric Acid (HCI)	H ₂ SO ₄)	Sodium Hydroxide (NaOH)	r (Soil	, 1x25-g	Other:	S) Sample									Airbill No: Date Shipped:
T.BRAN	P. STULLIE		x Code	(G) or C	served	Hydrochloric Acid	ic Acid (m Hydro	nol/Wate	EnCores 3x5-g, 1x25-g	. duction	Containe								3D Request	Date Smpped.
SAMPLE IDENTIFICA (Containers for each sample m	TION my be combined on one line)	DATE TO (mm/dd//yy) (hi	IME Rational	Grab	Unpre	Hydro Nitric	Sulfur	Sodiu (NaO)	Metha Voc)	EnCo	Other:		7							MS/MSD	COMMENTS/ SPECIAL INSTRUCTIONS:
1 W-150616-	TB-WE	06/15/15/10	7:40 W	6	2		-				3	2)	1	4	-		-				* STAWOARD
3					+	+	+		\dashv	-	-	-	+	-	-	H	+	+	1	+	TAT
Page 1																					CONTACT CRANS ANDERSON
Je 15					_								1	_	-		_		1		ANDERSON
1500 17				-	-	-				+	-	+	+	+	-	\vdash	+	-		+	
8					1								t	+			\dashv	+	1	+	
9	ě																				
0 1				·	+		-					+	-	+	+		+			-	
1 2										-		1	t	+	\dagger		+		3	1	
1 1																			:		,
1 5	=				+		-					+	+	+	+	+	-	+		+	
TAT Required in busines	s days (use separate Co	OCs for different TA	Ts):			Tota	l Num	ber of	Con	taine	rs:	2 1	Note	es/ S	pecia	al Rec	quire	ment	s:		.
☐1 Day ☐ 2 Days ☐	3 Days 1 Week 2	2 Week Other:				Sample	s in Co	ooler	must												,
1. Tim Bean		CR 7	6/16	15		TIME 1:00	17		2		CEIVE			on	`.		7	m	MPANY	-	DATE : TIME 6/17/15 920
6/24			-/ 10	- ,		,	2.	TE			<u></u>		7	راق	1	1			- -		111111111111111111111111111111111111111
/201							3.		-71											-	
.		THE CHAIN OF	CUSTODY I	S A LEG	AL DO	CUMEN	T-ALI	FIELD	S ML	IST BE	COME	PLETE	DA	CCUE	PATEL	Y			1		

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	i Los	m#:: <u>\$3 O(p</u> Vp*	
	nawood.	Cooler unpacked by:	
Cooler Received on (0/17/15 Opened on C	2/17/15	Weather Muzoni	
FedEx: 1st - Grd Exp 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: Author Wrap Foam Plastic Ba	g None Other _		
1. Cooler temperature upon receipt	er None		
IR GUN# A (CF +1.0 °C) Observed Cooler Temp. IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. 2. Were custody seals on the outside of the cooler(s)? If Yes -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropria 6. Was/were the person(s) who collected the samples clearly identi 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated? 10. Sufficient quantity received to perform indicated analyses? 11. Were sample(s) at the correct pH upon receipt? 12. Were VOAs on the COC?	Corrected Cooler Cooler Coorested Cooler Corrected Cooler Countity (Cooler Cooler Cool	Femp°C Cooler Form Femp°C Cooler Form Femp°C Solution Form Femp°C Cooler Form Femp°C Solution Form Form Form Form Form Form Form Form	State of the state
13. Were air bubbles >6 mm in any VOA vials?		No No	
14. Was a trip blank present in the cooler(s)? Trip Blank Lot #		Kap	
Contacted PM Date by	via Verbal V	oice Mail Other	
Concorning			
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES		Samples processed by:	
** * * * * * * * * * * * * * * * * * *	** ** ** ** ** * *		
	<u>.</u>		
	5		
		•	
Sample(s) were received after Sample(s)	the recommended holdi	ng time had expired. in a broken container.	
	ed with bubble >6 mm in		
16. SAMPLE PRESERVATION			
Sample(s)	were fur	her preserved in the laboratory.	
Time preserved: Preservative(s) added/Lot number(s):	were full	and property and the laboratory.	

:-:

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-52066-1

Login Number: 52066

List Number: 2

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh List Creation: 06/18/15 06:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Canton



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: 240-52067-1

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

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

Attn: Mr. Grant Anderson

Jenuse DHeckler

Authorized for release by: 6/24/2015 10:25:09 AM

Denise Heckler, Project Manager II (330)966-9477

denise.heckler@testamericainc.com

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

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

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

TestAmerica Job ID: 240-52067-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Chain of Custody	14
Receipt Checklists	17

3

4

6

. 1

9

12

14

Definitions/Glossary

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

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 240-52067-1

Qualifiers

GC Semi VOA

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	Qualifier	Qualifier Description	
The 9/ PDD between the primary and confirmation relevant (data day in 200). The laws about the back and the	J _	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
p The WRPD between the primary and confirmation column/detector is >40%. The lower value has been reported.	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.	
U Indicates the analyte was analyzed for but not detected.	U	Indicates the analyte was analyzed for but not detected.	

TEF

TEQ

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
Percent Recovery
Contains Free Liquid
Contains no Free Liquid
Duplicate error ratio (normalized absolute difference)
Dilution Factor
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision level concentration
Minimum detectable activity
Estimated Detection Limit
Minimum detectable concentration
Method Detection Limit
Minimum Level (Dioxin)
Not Calculated
Not detected at the reporting limit (or MDL or EDL if shown)
Practical Quantitation Limit
Quality Control
Relative error ratio
Reporting Limit or Requested Limit (Radiochemistry)
Relative Percent Difference, a measure of the relative difference between two points

TestAmerica Canton

Case Narrative

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

TestAmerica Job ID: 240-52067-1

Job ID: 240-52067-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 86165-01-01, Penta Wood

Report Number: 240-52067-1

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.

The samples were received on 06/17/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

CHLORINATED HERBICIDES

Sample W-150616-TB-BG (240-52067-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 06/19/2015 and analyzed on 06/23/2015.

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.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 180-145582.

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

Method Description

Herbicides (GC)

TestAmerica Job ID: 240-52067-1

Protocol

SW846

TAL PIT

Laboratory

Protocol References:

Method

8151A

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: 240-52067-1

14

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-52067-1
 W-150616-TB-BG
 Water
 06/16/15 10:45
 06/17/15 09:20

4

5

6

9

13

14

Detection Summary

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

TestAmerica Job ID: 240-52067-1

Client Sample ID: W-150616-T	B-BG		Lab S	ample ID: 2	40-52067-1
			¥		1

AnalyteResultQualifierRLMDLUnitDil FacDMethodPrep TypePentachlorophenol0.027J p0.0950.015ug/L48151ATotal/NA

5

6

7

9

12

15

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.

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

TestAmerica Job ID: 240-52067-1

Client Sample ID: W-150616-TB-BG

Date Collected: 06/16/15 10:45 Date Received: 06/17/15 09:20

Lab Sample ID: 240-52067-1

Matrix: Water

Method: 8151A - Herbicides (GC)

Analyte Result Qualifier RL MDL Unit Dil Fac Prepared Analyzed 0.095 Pentachlorophenol 0.027 Jp 0.015 ug/L 06/19/15 11:17 06/23/15 16:28

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 2,4-Dichlorophenylacetic acid 54 32 - 140 06/19/15 11:17 06/23/15 16:28

Surrogate Summary

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

TestAmerica Job ID: 240-52067-1

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

			Percent	Surrogate Recovery (Acceptance Limits)
		DCPA1	DCPA2	
Lab Sample ID	Client Sample ID	(32-140)	(32-140)	
240-52067-1	W-150616-TB-BG	54	49	
LCS 180-145582/2-A	Lab Control Sample	88	86	
LCSD 180-145582/3-A	Lab Control Sample Dup	71	63	
MB 180-145582/1-A	Method Blank	67	69	
Surrogate Legend				

6

3

9

10

12

14

QC Sample Results

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

TestAmerica Job ID: 240-52067-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-145582/1-A

Matrix: Water

Surrogate

Analysis Batch: 145849

2,4-Dichlorophenylacetic acid

2,4-Dichlorophenylacetic acid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 145582

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte 0.10 U 0.10 0.016 ug/L 06/19/15 11:17 06/23/15 15:15 Pentachlorophenol

> MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac 32 - 140 06/19/15 11:17 06/23/15 15:15

Lab Sample ID: LCS 180-145582/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Prep Batch: 145582 Analysis Batch: 145849 LCS LCS Spike %Rec. Limits Added Analyte Result Qualifier Unit D %Rec 40 - 140 5.00 5.54 111 Pentachlorophenol ug/L LCS LCS %Recovery Qualifier Surrogate Limits 32 - 140

69

88

LCSD LCSD

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 180-145582/3-A Matrix: Water Prep Type: Total/NA Prep Batch: 145582 Analysis Batch: 145849 Spike LCSD LCSD %Rec. RPD Limits **RPD** Limit Analyte Added Result Qualifier Unit D %Rec Pentachlorophenol 5.00 5.11 102 40 - 140 8 30 ug/L

Surrogate %Recovery Qualifier Limits 2,4-Dichlorophenylacetic acid 32 - 140

QC Association Summary

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

TestAmerica Job ID: 240-52067-1

2

GC Semi VOA

Prep Batch: 145582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52067-1	W-150616-TB-BG	Total/NA	Water	8151A	
LCS 180-145582/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-145582/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-145582/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 145849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52067-1	W-150616-TB-BG	Total/NA	Water	8151A	145582
LCS 180-145582/2-A	Lab Control Sample	Total/NA	Water	8151A	145582
LCSD 180-145582/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	145582
MB 180-145582/1-A	Method Blank	Total/NA	Water	8151A	145582

3

5

2

7

8

9)

22

11

13

14

Lab Chronicle

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

TestAmerica Job ID: 240-52067-1

Client Sample ID: W-150616-TB-BG

Date Collected: 06/16/15 10:45 Date Received: 06/17/15 09:20

Lab Sample ID: 240-52067-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8151A		***************************************	145582	06/19/15 11:17	JPM	TAL PIT
Total/NA	Analysis	8151A		4	145849	06/23/15 16:28	JMO	TAL PIT

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 240-52067-1

The certifications listed below are applicable to this report.

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

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

ĺ	Authority	Program	EPA Region	Certification ID	Expiration Date
ı	Wisconsin	State Program	5	998027800	08-31-15



Test America Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD 2.6/03.6 coc No.: SP-01650

PAGE _ OF _

1801 Old Highway 8 Northwest, Suite 114 St. Paul, Minnesota 55112 United States Phone: (651) 639-0913 Fax: (651) 639-0923

(See Reverse Side for Instructions)

Project No/ Phase/Task Gode: (386/65-0)					Laboratory Name: TEST AMERICAN							Lab Location: N. (かがい, ③ド) Lab Quote No:						SSOW ID:							
Proje	ct Name:	00016)		Lab	Conta	ict:) 5	_	1 1	11417	ノド	Or J	. v	_	Lab	Quo	te No););	172)) U~	, 01	1	Cooler No:	
Proie	ct Location:	MAWOUD							ONT	AINE	R QL	LAND	TITY.	0	-									Carrier:	
	4	IREN, W	エ		SAM!	PLE	٠,				ERVA			O:						REQ OC fo		TED initions)	Carner.	
Chen	nistry Contact:	and Bo	LANCRE, QU	Rowal	is.	CEm		HCI)		3		=	5-g		mple									Airbill No:	
Sampler(s): /				(၁၀၁	dwo		Acid (I	(03)	(H ₂ SO,	xide	er (So	3, 1x2		ers/Sa	15							est	Date Shipped:		
Project Name: PENTAWOD Project Location: SIREN, WI Chemistry Contact: GRAWT ANDERSON GRADERSON OCRAWOR Sampler(s): T. BRANN / P. SOUPLIE SAMPLE IDENTIFICATION DATE TIME					Code	3) or (erved	hloric	cid (HI	Acid	Hydro	ol/Wat	s 3x5-ç		ontaine	3-6	9 9					Redn			
= (0	Containers for each sample m	y be combined on one line)	(mm/dd//yy)	(hh:mm)	M S	Ö	5	Hydrochloric Acid (HCI)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methan VOC)	EnCores 3x5-g, 1x25-g	Other:		PC0-815							MS/MSD	COMMENTS/ SPECIAL INSTRUCTION	ons:
1 '	W- 15061	5-18-BG	06/16/19	10.45	W	G	2	_	-						P	X								* STANDARD	
2	100							_	_	_														TAT	
3																	_	_				l i		CONTACT	
Page									_								_	_						GRANT	
							_	-			_						_		\square	_	_		_	ANDERSU	~
জু								_	-		_						_			_	_	1	-		
4				ļ				_	-			_				_	_					1	_		
8									\dashv		_			_		_	_	-			_		\perp		
1							-	-								\vdash	-	+	\vdash				1		
0				-			-	-	-		-	_				+	_	_	\perp					3	
1								-	-	_							_	+	-	-	_		-	, -	
1																-	-	+				-	-		
1						1			-				-			\vdash	-	+	\vdash	-	_		+-	· .	
1 5									\dashv		-					\dashv	+	+-	\vdash	+	_	 	-		
TAT	Required in busines:	s days (use separat	e COCs for different	TATs):		-		To	otal N	Vumb	er of	Con	taine	rs.	2	No	95/5	necis	I Ro	quire	mont	e.			
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:								Notes/ Special Requirements:											
	RELINQUISHE	рВү	COMPANY		DATE			TIME				/ .	. R	ECE!\	/FD'B	Υ, .					Co	MPANY,		DATE TIM	ME
1. D'inBRANDON CRA 6/4				5/19	5/15 14:00			0	1. Hather F					Mara				TOR			6/17/10 92	,)			
72/9			*		,					2.	7:					0		-				-			
/20										3.															
Si				OF CUSTO	ODY IS	A LEG	AL D	осим	ENT -	-ALL	FIELD	os Mu	JST B	E Co	MPLE	TED A	CCUF	RATEL	Υ			;	-		
Distri	bution: WHITE	-Fully Executed Co	opy (CRA) YE	LLOW-R	eceivir	ng Lat	orate	ory Co	ру		1	PINK	-Sh	ipper			GOLE	DENR	ROD -	-San	npling	Crew		CRA Form: COC-10A (2011	10804)

















	TestAmerica Canton Sample Receipt Form/Narrative Login # :: 52047	
	Client Clark Site Name Len le voud Cooler unpacked by:	
	Cooler Received on Q 17/15 Opened on 6/17/15 Phathardingoni	
	FedEx: 1st Grd Exp UPS FAS Stetson Client-Drop-Off TestAmerica Courier Other Receipt After-hours: Drop-off Date/Time Storage Location	
	Receipt After-hours: Drop-off Date/Time Storage Location -TestAmerica Cooler # Foam Box Client Cooler Box Other	-
	Packing material used: Anabole Wrap Foam Plastic Bag None Other	
	- COOLANT: Wet Ice Blue Ice Dry Ice Water None	
	Cooler temperature upon receipt	
	IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 2 C Corrected Cooler Temp. 3.6 °C IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C See Multiple	
	IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C Cooler Form	
· .	IR-GUN# 8 (CF-1.5 °C) Observed Cooler Temp °C Corrected Cooler Temp. °C	
organism .	2. Were custody seals on the outside of the cooler(s)? If Yes Quantity (es) No	
	-Were custody seals on the outside of the cooler(s) signed & dated? -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No	
	3. Shippers' packing slip attached to the cooler(s)?	
	4. Did custody papers accompany the sample(s)?	
1	5. Were the custody papers relinquished & signed in the appropriate place? Pes No	
	6. Was/were the person(s) who collected the samples clearly identified on the COC? Vee No	
Ì	7. Did all bottles arrive in good condition (Unbroken)?	
	8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated? 8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated?	
	10. Sufficient quantity received to perform indicated analyses?	
	11. Were sample(s) at the correct pH upon receipt? Yes No IQ pH Strip Lot# HC432654	
1	12. Were VOAs on the COC? Yes No	
	13. Were air bubbles >6 mm in any VOA vials? Yes No No	
	14. Was a trip blank present in the cooler(s)? Trip Blank Lot# Yes Yes	
	Contacted PM by via Verbal Voice Mail Other	
L	Concerning	
Γ	Samples processed by:	
1	14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	*
1		
ĺ		
	·	
	,	
r	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	
- 13	Sample(s) were further preserved in the laboratory.	The state of the s
	Time preserved: Preservative(s) added/Lot number(s):	
		1

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-52067-1

Login Number: 52067

List Number: 2

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 06/18/15 06:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	