Richard, Philip E - DNR

From: Sent: To: Cc: Subject: Attachments: Ree, Timothy <tree@craworld.com> $\mathcal{H}(07)$ Tuesday, April 07, 2015 3:02 PM Richard, Philip E - DNR Robinson, John H - DNR; Frehner, Ron; Sandberg, Brian; Storlie, Pete Penta Wood - WPDES Compliance Sampling 3/24/2015 and 3/31/2015 ~COR-086165~ Lab Report-240-48589-1-08165-01-07-2015-04-06.pdf; Lab Report-240-48859-1-08165-01-07-2015-04-06.pdf

lec/ 4/7/15

Phil,

Please find attached a copy of the laboratory report for the WPDES compliance effluent samples collected at the Penta Wood site on 3/24/2015 and 3/31/2015. PCP was detected at concentrations of 0.073 ug/L (estimated) and 0.081 ug/L (estimated), which are less than the permit limit of 0.1 ug/L. This indicates that the system continues to treat and discharge water in compliance with the substantive permit requirements.

Regards,

Tim Ree

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

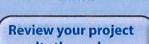
Phone: 651.639.0913 Direct: 651.639-0439 (ext. 338) Cell: 651.592.7697 Fax: 651.639.0923 Email: <u>tree@CRAworld.com</u> <u>www.CRAworld.com</u> Think before you print Perform every task the safe way, the right way, every time!

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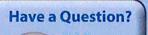
CRA and GHD have merged! To learn more, visit www.CRAworld.com/ghd











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The

Expert

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 240-48589-1 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

lenuse DHeckler

Authorized for release by: 4/6/2015 10:25:43 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.

Table of Contents

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Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 86165-01-01, Penta Wood TestAmerica Job ID: 240-48589-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
х	Surrogate is outside control limits	
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)
	appropriate a filling a filling

Job ID: 240-48589-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 86165-01-01, Penta Wood

Report Number: 240-48589-1

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 03/25/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.9 C.

CHLORINATED HERBICIDES

Sample W-150324-PS-WE (240-48589-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 03/26/2015 and analyzed on 03/31/2015.

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.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for MB 180-136711/1-A. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported. Detection of target analytes were at a "J" level.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 136711.

No additional 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

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: 240-48589-1

1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-48589-1	W-150324-PS-WE	Water	03/24/15 09:20	03/25/15 10:00

Detection Summary

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

Pentachlorophenol

TestAmerica Job ID: 240-48589-1

Total/NA

8151A

4

Client Sample ID: W	-150324-PS-W	'E			Lab Sample ID): 240-48589-1
Analyte		Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type

0.095

0.015 ug/L

0.073 J

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 86165-01-01, Penta Wood TestAmerica Job ID: 240-48589-1

Client Sample ID: W-150324-P		Lab Sample ID: 240-48589-							
Date Collected: 03/24/15 09:20			Matrix	: Water					
Date Received: 03/25/15 10:00								2	
Method: 8151A - Herbicides (GC) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.073	J	0.095	0.015	ug/L		03/26/15 14:15	03/31/15 10:46	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2.4-Dichlorophenylacetic acid	57	· · · · · · · · · · · · · · · · · · ·	32 - 140				03/26/15 14:15	03/31/15 10:46	4

TestAmerica Canton

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)	
240-48589-1	W-150324-PS-WE	57	53	And a second sec
LCS 180-136711/2-A	Lab Control Sample	52	46	
LCSD 180-136711/3-A	Lab Control Sample Dup	50	44	
MB 180-136711/1-A	Method Blank	165 X	149 X	

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

TestAmerica Canton

1

Lab Sample ID: MB 180-1367	711/1-A									Client Sa	mple ID: M	ethod	Blank
Matrix: Water											Prep Ty		
Analysis Batch: 137039											Prep Ba		
analise and an analysis and an and an and an and an	Ν	IB MB									10 Section 12 191 50		
Analyte	Res	ult Qualifie	r RL		MDL	Unit		D	P	repared	Analyzed	1	Dil Fac
Pentachlorophenol	0.	10 U	0.10	(0.016	ug/L			03/2	6/15 14:15	03/31/15 10	:25	4
	Λ	1B MB											
Surrogate	%Recove	ry Qualifie	r Limits						Pi	repared	Analyzed	1	Dil Fac
2,4-Dichlorophenylacetic acid	1	65 X	32 - 140						03/2	6/15 14:15	03/31/15 10	:25	4
Lab Sample ID: LCS 180-136	711/2-A							С	lient	Sample	ID: Lab Cor	trol S	ample
Matrix: Water											Prep Ty	be: To	tal/NA
Analysis Batch: 137297											Prep Ba	tch: 1	36711
			Spike	LCS	LCS						%Rec.		
Analyte			Added	Result	Qual	ifier	Unit		D	%Rec	Limits		
Pentachlorophenol			0.500	0.521			ug/L			104	40 - 140		
	LCS L	CS ·											
Surrogate	%Recovery Q	ualifier	Limits										
2,4-Dichlorophenylacetic acid	52		32 - 140										
Lab Sample ID: LCSD 180-13	36711/3-A						CI	ient	Sam	ple ID: L	ab Control	Sampl	e Dup
Matrix: Water										•	Prep Ty	-	-
Analysis Batch: 137039											Prep Ba		
an and the second			Spike	LCSD	LCSI	D					%Rec.		RPD
Analyte			Added	Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limit
Pentachlorophenol			0.500	0.502			ug/L			100	40 - 140	NaN	30
	LCSD L	CSD											
Surrogate	%Recovery Q	ualifier	Limits										

32 - 140

2,4-Dichlorophenylacetic acid

50

QC Association Summary

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

1

GC Semi VOA

Prep Batch: 136711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48589-1	W-150324-PS-WE	Total/NA	Water	8151A	
LCS 180-136711/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-136711/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
	NA 6 BURNARDAG US NAMB PRICE BURN				
MB 180-136711/1-A	Method Blank	Total/NA	Water	8151A	
Analysis Batch: 137039	9				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48589-1	W-150324-PS-WE	Total/NA	Water	8151A	136711
LCSD 180-136711/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	136711
MB 180-136711/1-A	Method Blank	Total/NA	Water	8151A	136711
Analysis Batch: 137297	C		•		
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-136711/2-A	Lab Control Sample	Total/NA	Water	8151A	136711

Lab Sample ID: 240-48589-1

Matrix: Water

1

1

Client Sample ID: W-150324-PS-WE

Date Collected: 03/24/15 09:20 Date Received: 03/25/15 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	 Prep	8151A			136711	03/26/15 14:15	CBY	TAL PIT
Total/NA	Analysis	8151A		4	137039	03/31/15 10:46	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: 240-48589-1

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



TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



TestAmerica Canton 4101 Shuffel Street, N. W.

3,4103.91

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING TestAmerica Laboratories, Inc.

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North Canton, DH 44720 Phone: 330,497,9396 Fax: 330,497,0772	Regulator	y Program:		IDDEC		CD 1	Othe	2000									TestAmerica La	Che Party of Manager, Carry and a sectore of
Client Contact		er: Gwant						er:		Ine	ate:	~	124	1.0	~	1	COC No:	TAL-8210 (0713)
Company Name: CRA, Inc.	Tol/Fax: GOM	derson@Cro	Minally	Sonon	h Co	ntact					arrier			E			/ of /	COCs
Address: 1801 Old Howy 8. #114	Analy	sis Turnaround	Time		T			<u> </u>					140	- 2	$\overline{\gamma}$		Sampler:	
City/State/Zip: St. Paul, MN .55112	CALENDAR DA	10001	KING DAYS													(B-	For Lab Use Only:	
Phone: 651-639-0913				$\overline{\mathbf{n}}$	î											h	Walk-in Client:	
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Site: Penta Wood		2 days G	TN	0	MSE	30											Job / SDG No.:	
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	Sample Sam	nple Type (C=Comp,		#of jo	for	pc												
Sample Identification				Piltered Sample (Y/N-)	Per		T I										Sample Spe	ecific Notes:
N-150324-95-WE	3/24/15 09	720 G	W	2 1	N	X	1											
1703211310	912115 01	120 9	1 6		+	-	<u> </u>	+									1	
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Preservation Used: 1= Ice, 2= HCI; 3= H2SO4, 4=HNO3;	5=NaOH; 6= Ot	lher	Sec. And Cal	2666			北部約									13		a she was to the to the
Possible Hazard Identification:					Sam	nple D)isposa	I(Af	ee ma	y be as	ssess	ed if	sampl	es are	e retai	ined	longer than 1 mor	nth)
Are any samples from a listed EPA Hazardous Waste? Pleas Comments Section if the lab is to dispose of the sample.	se List any EPA V	Naste Codes for t	he sample	in the														
Non-Hazard	Poison B	Unkno	own		Г	Retu	rn to Clier	nt	·•		nsal hv	lah		Ar	chive fo	Dr	Months	
Special Instructions/QC Requirements & Comments:											5501 57	200						
	STAND	JARD "	TAT															
Custody Seals Intact: Yes No	Custody Seal N						Cooler	r Tem	p. (°C)	: Obs'd	1:		Corr	d:			Therm ID No.:	
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Client CrA	Site Name	Cooler unpacked by:
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		estAmerica Courier Other
Receipt After-hours: Dr	op-off Date/Time	Storage Location
TestAmerica Cooler #		Box Other
Packing material use		None Other
COOLANT:	Wet Ice Blue Ice Dry Ice Water	None
1. Cooler temperature u		
IR GUN# 4 (CF	+4.0 °C) Observed Cooler Temp. °C +0.5 °C) Observed Cooler Temp. 3.4 °C	C Corrected Cooler Temp. <u>C</u> C Corrected Cooler Temp. <u>3.9</u> °C □ See Multiple
	+0.4 °C) Observed Cooler Temp C	
		Corrected Cooler Temp. °C
		antity Ves No
	on the outside of the cooler(s) signed & dated?	
-Were custody seals	on the bottle(s)?	Yes No
	attached to the cooler(s)?	(res No
	ccompany the sample(s)?	Jes No
	ers relinquished & signed in the appropriate pl	
	r(s) clearly identified on the COC?	Yes Xo
	in good condition (Unbroken)? s be reconciled with the COC?	Yes, No
) used for the test(s) indicated?	Nés No Nos No
	eceived to perform indicated analyses?	(Yes No
11. Were sample(s) at the	-	Yes No (NA) pH Strip Lot# <u>HC425511</u>
12. Were VOAs on the C		Yes (No.
13. Were air bubbles >61		Yes No (NA
14. Was a trip blank pres	ent in the cooler(s)? Trip Blank Lot #	
	ent in the cooler(s)? Trip Blank Lot #	Yes No
Contacted PM		Yes No
	ent in the cooler(s)? Trip Blank Lot #	Yes No
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Contacted PM	ent in the cooler(s)? Trip Blank Lot #by _	Yes No
Contacted PM Concerning 14. CHAIN OF CUSTO	ent in the cooler(s)? Trip Blank Lot # Dateby DY & SAMPLE DISCREPANCIES	Yes Novia Verbal Voice Mail OtherSamples processed by:
Contacted PM Concerning 14. CHAIN OF CUSTO	ent in the cooler(s)? Trip Blank Lot # Dateby DY & SAMPLE DISCREPANCIES	Yes Novia Verbal Voice Mail OtherSamples processed by:
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Contacted PM Concerning 14. CHAIN OF CUSTO 15. SAMPLE CONDITI Sample(s) Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESERY	ent in the cooler(s)? Trip Blank Lot # Dateby DY & SAMPLE DISCREPANCIES	Yes NoYes NoYes NoYes Samples processed by:Samples pr
Contacted PM Concerning 14. CHAIN OF CUSTO 15. SAMPLE CONDIT Sample(s) Sample(s) Sample(s)	ent in the cooler(s)? Trip Blank Lot # Dateby DY & SAMPLE DISCREPANCIES	Yes NoYes NoYes NoYes NoYes Samples processed by:Samples processed by:

Ref: SOP NC-SC-0005, Sample Receiving X:\Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099P-020915 Cooler Receipt Form.doc djl

1

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Login Number: 48589 List Number: 2

Creator: Watson, Debbie

Question	Answer Comment	2
Radioactivity wasn't checked or is = background as measured by a survey<br 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 240-48589-1

No. of

1

List Source: TestAmerica Pittsburgh

List Creation: 03/26/15 12:00 PM



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: 240-48859-1 Client Project/Site: 86165-01-01, Penta Wood

For:

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www.testamericainc.com

Visit us at:

Expert

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: 4/6/2015 9:45:16 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.

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Table of Contents

Definitions/Glossary

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

Qualifiers

GC Semi VOA

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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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)

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Job ID: 240-48859-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 86165-01-01, Penta Wood

Report Number: 240-48859-1

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

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

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

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

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

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

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

RECEIPT

The samples were received on 04/01/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.9 C.

CHLORINATED HERBICIDES

Sample W-150331-PS-WE (240-48859-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 04/02/2015 and analyzed on 04/03/2015.

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 batch 137401.

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

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-48859-1	W-150331-PS-WE	Water	03/31/15 13:00	04/01/15 09:50

TestAmerica Canton

4/6/2015

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

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Client Sample ID: W-150						L	ab	Sample II	D: 240-48859-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.081	J	0.094	0.015	ug/L	4		8151A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 86165-01-01, Penta Wood TestAmerica Job ID: 240-48859-1

Lab Sample ID: 240-48859-1

Matrix: Water

1

Client Sample ID: W-150331-PS-WE Date Collected: 03/31/15 13:00 Date Received: 04/01/15 09:50

Method: 8151A - Herbicides (GC) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.081	J	0.094	0.015	ug/L		04/02/15 16:35	04/03/15 13:17	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	81		32 - 140				04/02/15 16:35	04/03/15 13:17	4

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

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)			
240-48859-1	W-150331-PS-WE	81	68		· · · · · · · · · · · · · · · · · · ·	
LCS 180-137401/2-A	Lab Control Sample	77	74			
LCSD 180-137401/3-A	Lab Control Sample Dup	74	71			
MB 180-137401/1-A	Method Blank	58	48			
Commente Lanual						
Surrogate Legend						

DCPA = 2,4-Dichlorophenylacetic acid

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Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-137401/1	-A										Client	Sample I	D: Method	Blank
Matrix: Water												Pre	o Type: To	otal/NA
Analysis Batch: 137462												Pre	p Batch:	137401
		MB MI	в											
Analyte	Re	sult Qu	ualifier		RL		MDL	Unit		D	Prepared	An	alyzed	Dil Fac
Pentachlorophenol	C	0.10 U		0	.10	(0.016	ug/L		04/	02/15 16	35 04/03/	15 12:56	4
		мв м	в											
Surrogate	%Recov	ery Qu	ualifier	Limits							Prepared	An	alyzed	Dil Fac
2,4-Dichlorophenylacetic acid		58		32 - 14	0					04,	/02/15 16	35 04/03	/15 12:56	4
Lab Sample ID: LCS 180-137401/	2-A									Clier	nt Samr	le ID: Lab	Control S	Sample
Matrix: Water										•			o Type: To	
Analysis Batch: 137462													p Batch:	
				Spike		LCS	LCS					%Rec.	p Datoin	
Analyte				Added		Result	Qual	ifier	Unit	D	%Rec	Limits		
Pentachlorophenol				2.50		2.14			ug/L		85	40 - 140)	
	LCS	LCS												
Surrogate	%Recovery	Qualifie	r	Limits										
2,4-Dichlorophenylacetic acid	77			32 - 140										
Lab Sample ID: LCSD 180-137401	1/3-A								CI	ient Sa	mple ID	: Lab Con	trol Samp	le Dup
Matrix: Water													Type: To	
Analysis Batch: 137462		5) (1)											p Batch:	
				Spike		LCSD	LCS	C				%Rec.		RPD
Analyte				Added		Result	Qual	ifier	Unit	D	%Rec	Limits	RPD	Limit
Pentachlorophenol				2.50		2.38			ug/L		95	40 - 140) 11	30
	LCSD	LCSD												
Surrogate	%Recovery	Qualifie	r	Limits										
2,4-Dichlorophenylacetic acid	74			32 - 140										

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

GC Semi VOA

Prep Batch: 137401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48859-1	W-150331-PS-WE	Total/NA	Water	8151A	
LCS 180-137401/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-137401/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-137401/1-A	Method Blank	Total/NA	Water	8151A	
Analysis Batch: 137462	2				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Lab Sample ID	Client Sample ID	Prep Type	Matrix	wethou	Ргер Бассп
240-48859-1	W-150331-PS-WE	Total/NA	Water	8151A	137401
LCS 180-137401/2-A	Lab Control Sample	Total/NA	Water	8151A	137401
LCSD 180-137401/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	137401
MB 180-137401/1-A	Method Blank	Total/NA	Water	8151A	137401

Lab Sample ID: 240-48859-1

Matrix: Water

1

Client Sample ID: W-150331-PS-WE

Date Collected: 03/31/15 13:00 Date Received: 04/01/15 09:50

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	8151A	, , , , , , , , , , , , , , , , , , ,		137401	04/02/15 16:35	CBY	TAL PIT	
Total/NA	Analysis	8151A		4	137462	04/03/15 13:17	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: 240-48859-1

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Laboratory: TestAmerica Canton

The certifications listed below are applicable to this report.

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



TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



Page 14 of 17 4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330,497 9396 fax 330,497 0772 www.testamericainc.com

4/6/2015

TestAmerica Canton 4101 Shuffel Street, M. H.

North Canton, DH 44720

5,41059

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Phone: 330.497.9396 Fax: 330.497.0772	Regulatory Program:		RCRA Other:		TAL-8210 (0713)
Client Contact	Project Manager: Grant	Andersonsi	ite Contact:	Date: 3/31/15	COC No:
Company Name: C.C.A	Tel/Fax: ganderson @ (ro	world. Com La	ab Contact:	Carrier: Fel EX	of COCs
Address: 18C1 Cld Hwy & 114	Analysis Turnaround	Time			Sampler:
City/State/Zip: St. Paul MAN 55112		KING DAYS			For Lab Use Only:
Phone: 651-639-0913	TAT if different from Delaw	22			Walk-in Client:
Fax:	2 weeks	tandard }			Lab Sampling:
Project Name: 086165-01-01		The Part	(X) 4		
Site: Penta Wood		THE			
PO#		ble	W IIII		Job / SDG No.:
10#	1 day	am	Perform MS (Y/N)		
	Sample	s p			
	Sample Sample Type	#of	El C		
Sample Identification	Date Time G=Grab)	Matrix Cont.	Ger		Sample Specific Notes:
i) interpolation	77.14.12.1				
W-150331-PS-WE	3-31-15/300 G	W 2 N	NX		Weekly Effluent.
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5 of 17					
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Preservation Used: $1 = 1ce$, $2 \neq HCI$; $3 = H2SO4$; $4 = HNO3$;	5=NaOH; 6= Other				
Possible Hazard Identification:			Sample Disposal (A fee may I	be assessed if samples are retained	d longer than 1 month)
Are any samples from a listed EPA Hazardous Waste? Pleas	se List any EPA Waste Codes for	the sample in the			
Comments Section if the lab is to dispose of the sample.					
Non-Hazard Flammable Skin Irritant	Poison B	own	Return to Client	Disposal by Lab Archive for	Months
Special Instructions/QC Requirements & Comments:		×		· · · · · · · · · · · · · · · · · · ·	
Custody Sealertriact: Yes No	Custody Seal No.:		Cooler Temp. (°C): C	bs'd: Corr'd:	Therm ID No.:
Relinquished by:	Company:	Date/Time: 3.31-15/1400	Received by:	Company:	Date/Time:
La Ja	L CKA	3.31.15/1400	D		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
./6	3				
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Tiple:
E .				WH TOC	Ulilis OSD
		I	1 yeur rout o	1 IBC	1115 750
2			/	O°	
afr.					

TestAmerica Canton Sample Receipt Form/Narrative Login # .: 48859
Client CPA Site Name Pentauros Cooler unpacked by:
Cooler Received on 1/1/15 Opened on 1/1/15 Algerthoused
FedEx: 1 st 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: 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 IR GUN# 4 (CF +0.5 °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# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C Cooler Form °C Cooler Form °C
IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity Yes No
-Were custody seals on the outside of the cooler(s) signed & dated? Yes No -Were custody seals on the bottle(s)? Yes No 3. Shippers' packing slip attached to the cooler(s)? Yes No
 Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the sampler(s) clearly identified on the COC? Yes
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? Yes No (NA) pH Strip Lot# <u>HC425511</u> 12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA 14. Was a trip blank present in the cooler(s)? Trip Blank Lot # Yes No
Contacted PM Date by via Verbal Voice Mail Other
Concerning
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

Ref: SOP NC-SC-0005, Sample Receiving X:\Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099P-020915 Cooler Receipt Form.doc djl .

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Client: Conestoga-Rovers & Associates, Inc.

Login Number: 48859 List Number: 2 Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td>6</td>	True	6
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	-

Job Number: 240-48859-1

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List Source: TestAmerica Pittsburgh

List Creation: 04/02/15 11:48 AM