Richard, Philip E - DNR

Put on BRETS 10/6/15(99)

From:

Ree, Timothy <Tim.Ree@ghd.com>

Sent:

Friday, October 02, 2015 3:18 PM

To:

Richard, Philip E - DNR

Cc: Subject: Frehner, Ron; Storlie, Pete Penta Wood - WPDES Compliance Sample 9/21/2015 ~COR-086165~

Attachments:

Lab Report-240-55715-1-086165-02-07-2015-10-02.pdf

Phil,

Please find attached the results for the effluent sample collected at the Penta Wood site on 9/21/2015. PCP was detected in the effluent at a concentration of 0.052 ug/L (estimated), which is below the permit criteria of 0.1 ug/L.

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

#### Tim Ree

#### **GHD**

T: +1 651 639 0913 | M: +1 651 592 7697 | E: <u>tim.ree@ghd.com</u> 1801 Old Highway 8 NW Suite 114 St. Paul Minnesota 55112 USA | <u>www.ghd.com</u>

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

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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: 240-55715-1

Client Project/Site: 86165-02-01, Penta Wood

#### For:

GHD Services Inc. 1801 Old Highway 8 NW Suite 114 St. Paul, Minnesota 55112

Attn: Mr. Grant Anderson

Denise DHeckler

Authorized for release by: 10/2/2015 3:29:57 PM

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

denise.heckler@testamericainc.com

.. LINKS .....

Review your project results through
Total Access

Have a Question?



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: GHD Services Inc.

Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55715-1

#### GC Semi VOA

Qualifiers

Qualifier  Qualifier Description					
J	Reported value was between the limit of detection and the limit of quantitation.				
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.				

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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: GHD Services Inc.

Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55715-1

Job ID: 240-55715-1

Laboratory: TestAmerica Canton

**Narrative** 

#### **CASE NARRATIVE**

Client: GHD Services Inc.

Project: 86165-02-01, Penta Wood

Report Number: 240-55715-1

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

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

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

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

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

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

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

#### RECEIPT

The samples were received on 09/23/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.3 C.

#### **CHLORINATED HERBICIDES**

Sample W-150921-PS-WE (240-55715-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 09/27/2015 and analyzed on 10/01/2015.

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 additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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## **Method Summary**

Client: GHD Services Inc.

Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55715-1

**Method Description** Protocol Method 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: GHD Services Inc.

Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55715-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-55715-1	W-150921-PS-WE	Water	09/21/15 14:40	09/23/15 09:10

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# **Detection Summary**

Client: GHD Services Inc.

Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55715-1

Client Sample ID: W-15	60921-PS-WE		Lab Sample ID:	240-55715-1
Γ		 		7 1002

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.052	Jp	0.094	0.015	ug/L	4		8151A	Total/NA

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## **Client Sample Results**

Client: GHD Services Inc.

Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55715-1

Client Sample ID: W-150921-PS-WE

Date Collected: 09/21/15 14:40 Date Received: 09/23/15 09:10

Lab Sample ID: 240-55715-1

**Matrix: Water** 

Method: 8151A - Herbicides (GC)

Analyte Result Qualifier LOQ LOD Unit Prepared Analyzed Dil Fac 09/27/15 19:39 10/01/15 01:36 Pentachlorophenol 0.052 Jp 0.094 0.015 ug/L

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 2,4-Dichlorophenylacetic acid 50 32 - 140 09/27/15 19:39 10/01/15 01:36

# **Surrogate Summary**

DCPA2

(32-140)

50

82

86

68

DCPA1

(32-140)

47

83

86

74

Client: GHD Services Inc.

Matrix: Water

Lab Sample ID

LCS 180-155014/2-A

MB 180-155014/1-A

MB 180-155014/1-A

**Surrogate Legend** 

240-55715-1

Project/Site: 86165-02-01, Penta Wood

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Client Sample ID

W-150921-PS-WE

Method Blank

Method Blank

Lab Control Sample

TestAmerica Job ID: 240-55715-1

Percent Surrogate Recovery (Acceptance Limits)

Prep Type: Total/NA

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TestAmerica Canton

# **QC Sample Results**

Client: GHD Services Inc.

Project/Site: 86165-02-01, Penta Wood

Method: 8151A - Herbicides (GC)

TestAmerica Job ID: 240-55715-1

Lab Sample ID: MB 180-1 Matrix: Water	55014/1-A							Clie		ole ID: Metho Prep Type: T	
Analysis Batch: 155447										Prep Batch:	
,	М	в МВ									
Analyte	Resu	It Qualifier	LOG		LOD	Unit	D	P	repared	Analyzed	Dil Fac
Pentachlorophenol	<0.07	8	0.50	0	.078	ug/L		09/2	27/15 19:39	09/30/15 18:03	20
	M	в МВ									
Surrogate	%Recover	y Qualifier	Limits					P	repared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	7	4	32 - 140					09/2	27/15 19:39	09/30/15 18:03	20
Lab Sample ID: MB 180-1	55014/1-A							Clie	ent Samp	ole ID: Metho	d Blank
Matrix: Water										Prep Type: T	otal/NA
Analysis Batch: 155447										Prep Batch:	155014
9	s <b>M</b>	в МВ									
Analyte	Resu	lt Qualifier	LOG		LOD	Unit	D	Р	repared	Analyzed	Dil Fac
Pentachlorophenol	<0.01	6	0.10	0	.016	ug/L		09/2	27/15 19:39	10/01/15 01:12	4
	M	в мв									
Surrogate	%Recover	y Qualifier	Limits					P	repared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	8	6	32 - 140					09/2	27/15 19:39	10/01/15 01:12	4
Lab Sample ID: LCS 180-	155014/2-A						Clien	t Sa	mple ID:	Lab Control	Sample
Matrix: Water										Prep Type: T	
Analysis Batch: 155447										Prep Batch:	
			Spike	LCS	LCS	;				%Rec.	
Analyte			Added	Result	Qua	lifier	Unit	D	%Rec	Limits	
Pentachlorophenol			10.0	9.07			ug/L		91	40 - 140	_
	LCS L	cs									
Surrogate	%Recovery Q	ualifier	Limits								
2,4-Dichlorophenylacetic acid	83		32 - 140								

# **QC Association Summary**

Client: GHD Services Inc.

Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55715-1

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## GC Semi VOA

## Prep Batch: 155014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55715-1	W-150921-PS-WE	Total/NA	Water	8151A	
LCS 180-155014/2-A	Lab Control Sample	Total/NA	Water	8151A	
MB 180-155014/1-A	Method Blank	Total/NA	Water	8151A	

## Analysis Batch: 155447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55715-1	W-150921-PS-WE	Total/NA	Water	8151A	155014
LCS 180-155014/2-A	Lab Control Sample	Total/NA	Water	8151A	155014
MB 180-155014/1-A	Method Blank	Total/NA	Water	8151A	155014
MB 180-155014/1-A	Method Blank	Total/NA	Water	8151A	155014

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## Lab Chronicle

Client: GHD Services Inc.

Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55715-1

Client Sample ID: W-150921-PS-WE

Date Collected: 09/21/15 14:40 Date Received: 09/23/15 09:10 Lab Sample ID: 240-55715-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			155014	09/27/15 19:39	JPM	TAL PIT
Total/NA	Analysis	8151A		4	155447	10/01/15 01:36	JMO	TAL PIT

Laboratory References:

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

# **Certification Summary**

Client: GHD Services Inc.

Authority

Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55715-1

Laboratory: TestAmerica Canton

The certifications listed below are applicable to this report.

Wisconsin State Program

Program

**EPA Region** 

**Certification ID** 999518190

**Expiration Date** 08-31-16

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority Certification ID Program **EPA Region Expiration Date** Wisconsin State Program 998027800 08-31-16

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

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# CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



TestAmerica Canton

# Chain of Custody Record

North Canton, OH 44720 Phone: 330.497.9396 Fax: 330.497.0772	Regu	latory Pro	gram: [	Jow F	NDDCC		RCI		٠	79	ran	7.0	ind	erso	10	GHG	Con	THE LEADER IN ENVIRONMENT TestAmerica Laborato	
Client Contact	Project N		in R		_ I NPDES			tact:	Other					0	2.5				-8210 (0713)
Company Name: G.ND	Tel/Fax:	anager.	MA	ee				tact:	72 1	Lea	Fla		Date: Carrier		22 ed	-15		COC No: 01	1
Address: 1801 Old Hwy 8		Analysis T	urnaround	Time		Lab	T	Tact.	P- 1	tee	10		Jarner	_/-	ed	Ex		Sampler: P. Show	
City/State/Zip: St. faul, mw 55/12		IDAR DAYS		RKING DAY	S	11												Sampler: P. Stor) For Lab Use Only:	7
Phone: 651-639-0913	TA	T if different fr	om Below		7	1	-		$\square$									Walk-in Client:	-
Fax:			week Sit	ando	Nd)	z s			4									Lab Sampling:	-
Project Name: 086/65-02-0; Site: Penta Wood		1	week			-1	~		B		1								
Site: Penta Wood			days			00	2		10								1	Job / SDG No.:	
P O #			day			amb	2		8			1 1							
		Î	Sample Type			ed Sam	E		N								-	1	
	Sample	Sample	(C=Comp,		# of	Filtere	힏		1-1						11				
Sample Identification	Date	Time	G=Grab)	Matrix	Cont.	ii d	2											Sample Specific No	tes:
W-150921-PS-WE	9-21-1	\$ 1440	G	W	2	NI	4		X									Weekly Effu	and,
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Preservation Used 1= Ice, 3= HCl; 3= H2SO4; 4=HNO3;	5=NaOH	6= Other		20		┰	+-	+	$-\nu$	+	-	++	-	1	++	-	_		-
Possible Hazard Identification:						- 1	Samp	le Dis	posal	(Afe	ee ma	y be a	assess	ed if s	ample	s are r	etaine	d longer than 1 month)	+
Are any samples from a lined EPA Hazardous Waste? Pleas Comments Section if the lab is to dispose of the sample.	e List any	EPA Waste	Codes for t	the samp	ole in th	е											!	a ronger man r month,	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant	Poiso	ı B	Unkno	own		$\neg$		Return t	o Client			Dis	oosal by	Lab		Archi	ve for	Months	
Special Instructions/QC Requirements & Comments:							7										1		
																	:	1	
Custody Seals Intact: Yes No	Custody							С	ooler	Temp	o. (°C)	: Obs	d:		Corr'd			Therm ID No.:	
Relinquished by:	Company	GH	D	Date/Ti			Recei	7 by	:   V	Cer	lu	_ ~		Compa	iny:			Date/Time: 9/	0
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TestAmerica Canton Sample Receipt Form/Narrative Lo	ogin#: 55115
Client Site Name	Cooler unpacked by:
Cooler Received on 9/23/15 Opened on 9/23/15	- Clik Celler
FedEx: 1st Grd Kp' UPS FAS Stetson Client Drop Off TestAmerica Courie	r Other
Receipt After-hours: Drop-off Date/Time Storage Location	n
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	
COOLANT: Wet Ice Blue Ice Dry Ice Water None  1. Cooler temperature upon receipt	
IR-GUN# A (CF+1.0 °C) Observed Cooler Temp. °C Corrected Cooler IR-GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler IR-GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler IR-GUN# 8 (CF -1.5 °C) Observed Cooler Temp. °C Corrected Cooler IR-GUN# 8 (CF -1.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C Corrected Cooler IR-GUN# 8 (CF -1.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C Corrected Cooler Temp.	r Temp°C ☐ See Multiple r Temp°C Cooler Form
Were custody seals on the outside of the cooler(s)? If Yes Quantity  -Were custody seals on the outside of the cooler(s) signed & dated?	Yes Ao Yes No DA
3. Shippers' packing slip attached to the cooler(s)?	Yes No Fee No
4. Did custody papers accompany the sample(s)?  5. Were the custody papers relinquished & signed in the appropriate place?  6. We have the paper (s) where the custody papers relinquished the sample depletion of the COC3.	Kes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)?	O No Yos No
8. Could all bottle labels be reconciled with the COC?	Ves No
9. Were correct bottle(s) used for the test(s) indicated?	₩ No
10. Sufficient quantity received to perform indicated analyses?	es No
11. Were sample(s) at the correct pH upon receipt?	Yes No (A) pH Strip Lot# HC554612
	Yes Ito
	Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot #	Yes (No
Contacted PM Date by via Verbal Concerning	Voice Mail Other
	Samples processed by:
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	campies processes by
	-
15. SAMPLE CONDITION	din a since had anning
Sample(s) were received after the recommended ho	
	ved in a broken container.
	in in diameter. (140thly F191)
16. SAMPLE PRESERVATION	
Sample(s) were Time preserved: Preservative(s) added/Lot number(s):	further preserved in the laboratory.

# **Login Sample Receipt Checklist**

Client: GHD Services Inc.

Job Number: 240-55715-1

List Source: TestAmerica Pittsburgh

List Creation: 09/24/15 04:52 PM

Login Number: 55715
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></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	

**TestAmerica Canton** 

Residual Chlorine Checked.

N/A