

Rec 7/29/15
pt on SARTS
7/29/15

Richard, Philip E - DNR

From: Frehner, Ron <Ron.Frehner@ghd.com>
Sent: Tuesday, July 28, 2015 4:05 PM
To: Richard, Philip E - DNR
Cc: Braun, Timothy J.; Ree, Timothy; Project Email Filing
Subject: FW: Penta Wood - WPDES Compliance Sampling 7/21/2015 ~COR-086165~
~COR-086165~
Attachments: Lab Report-240-53525-1-086165-01-07-2015-07-28.pdf

Phil – see Tim B’s email below.

From: Braun, Timothy J.
Sent: Tuesday, July 28, 2015 1:40 PM
To: Frehner, Ron
Cc: Ree, Timothy
Subject: Penta Wood - WPDES Compliance Sampling 7/21/2015 ~COR-086165~

Ron,

Please inform Phil Richard of the attached results for the effluent sample collected at the Penta Wood site on 7/21/2015. PCP was detected in the effluent sample at a concentration of 0.16 ug/L, which exceeds the permit criteria of 0.1 ug/L. The average effluent concentration for the four samples collected in July 2015 is 0.122 ug/L but does not represent a non-compliance with the substantive WPDES permit criteria since an additional weekly effluent sample is required to be collected this month and will be collected tomorrow.

As mentioned in a previous email, GHD implemented changes to the pumping rates on Thursday 7/23/2015 by reducing the pumping rate at well EW06 and increasing the pumping rates at the other extraction wells slightly in an attempt to reduce the overall influent concentration.

GHD recommends that we continue to operate the system and re-assess following the pumping changes and receipt of future subsequent sample results.

Phil, please update Kathy Bartilson (WDNR) and Linda Martin (USEPA).

Tim Braun
Engineer

GHD
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 240-53525-1

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

For:

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

Attn: Mr. Grant Anderson



Authorized for release by:
7/28/2015 9:29:47 AM

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

denise.heckler@testamericainc.com

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

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

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

Glossary

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

Case Narrative

Client: GHD Services Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

Job ID: 240-53525-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 86165-01-01, Penta Wood

Report Number: 240-53525-1

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 07/23/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.6 C.

CHLORINATED HERBICIDES

Sample W-150721-PS-WE (240-53525-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 07/24/2015 and analyzed on 07/27/2015.

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

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 180-148804.

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

Method Summary

Client: GHD Services Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

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: GHD Services Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-53525-1	W-150721-PS-WE	Water	07/21/15 12:30	07/23/15 09:20



Detection Summary

Client: GHD Services Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

Client Sample ID: W-150721-PS-WE

Lab Sample ID: 240-53525-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.16		0.094	0.015	ug/L	4		8151A	Total/NA



This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

Client Sample ID: W-150721-PS-WE

Lab Sample ID: 240-53525-1

Date Collected: 07/21/15 12:30

Matrix: Water

Date Received: 07/23/15 09:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.16		0.094	0.015	ug/L		07/24/15 15:30	07/27/15 11:34	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	86		32 - 140				07/24/15 15:30	07/27/15 11:34	4



Surrogate Summary

Client: GHD Services Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1 (32-140)	DCPA2 (32-140)
240-53525-1	W-150721-PS-WE	86	71
LCS 180-148804/2-A	Lab Control Sample	64	50
LCSD 180-148804/3-A	Lab Control Sample Dup	52	42
MB 180-148804/1-A	Method Blank	74	65

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid



QC Sample Results

Client: GHD Services Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-148804/1-A
Matrix: Water
Analysis Batch: 148902

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 148804

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	<0.016		0.10	0.016	ug/L		07/24/15 15:30	07/27/15 11:10	4

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid	74		32 - 140	07/24/15 15:30	07/27/15 11:10	4

Lab Sample ID: LCS 180-148804/2-A
Matrix: Water
Analysis Batch: 148902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 148804

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Pentachlorophenol	1.00	0.762		ug/L		76	40 - 140

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	64		32 - 140

Lab Sample ID: LCSD 180-148804/3-A
Matrix: Water
Analysis Batch: 148902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 148804

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Pentachlorophenol	1.00	0.620		ug/L		62	40 - 140	21	30

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	52		32 - 140

QC Association Summary

Client: GHD Services Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

GC Semi VOA

Prep Batch: 148804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-53525-1	W-150721-PS-WE	Total/NA	Water	8151A	
LCS 180-148804/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-148804/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-148804/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 148902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-53525-1	W-150721-PS-WE	Total/NA	Water	8151A	148804
LCS 180-148804/2-A	Lab Control Sample	Total/NA	Water	8151A	148804
LCSD 180-148804/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	148804
MB 180-148804/1-A	Method Blank	Total/NA	Water	8151A	148804



Lab Chronicle

Client: GHD Services Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

Client Sample ID: W-150721-PS-WE

Lab Sample ID: 240-53525-1

Date Collected: 07/21/15 12:30

Matrix: Water

Date Received: 07/23/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			148804	07/24/15 15:30	CBY	TAL PIT
Total/NA	Analysis	8151A		4	148902	07/27/15 11:34	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.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-53525-1

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



* Certification renewal pending - certification considered valid.

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**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-53525 Chain of Custody

416/C5.6

031643

North Canton, OH 44720
Phone: 330.497.9396 Fax: 330.497.0772

Regulatory Program: DW NPDES RCRA Other:

gan derson@croworld.com

Client Contact		Project Manager: Tim Rec		Site Contact:		Date: 7-21-15		COC No:		
Company Name: GHD		Tel/Fax:		Lab Contact:		Carrier: Fed Ex		1 of 1 COCs		
Address: 1801 Old Hwy 8		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N)		PCP-8151		Sampler: P. Starke		
City/State/Zip: St. Paul, MN 55122		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only:		
Phone: 651-639-0913		TAT if different from Below						Walk-in Client:		
Fax:		<input type="checkbox"/> 2 weeks Standard						Lab Sampling:		
Project Name: Penta Wood		<input type="checkbox"/> 1 week								
Site: 086165-01-01		<input type="checkbox"/> 2 days								
P O #		<input type="checkbox"/> 1 day						Job / SDG No.:		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
N-150721-PS-WE		7-21-15	1230	G	W	2	Weekly Effluent			
/										
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown										
Special Instructions/QC Requirements & Comments:										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Therm ID No.:				
Relinquished by: [Signature]		Company: CRA		Date/Time: 7/21/15/1430		Received by: [Signature]		Date/Time: 7-23-15 920		
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Date/Time:		

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Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 240-53525-1

Login Number: 53525
List Number: 2
Creator: Butcher, Ryan M

List Source: TestAmerica Pittsburgh
List Creation: 07/24/15 11:21 AM

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