Richard, Philip E - DNR

BRPTS (9)

From:

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

Sent:

Tuesday, October 06, 2015 8:57 AM

To: Cc: Richard, Philip E - DNR

Culai a ata

Frehner, Ron; Storlie, Pete

Subject:

Penta Wood - WPDES Compliance Sample 9/28/2015 ~COR-086165~

Attachments:

Lab Report-240-55943-1-086165-02-07-2015-10-05.pdf

Phil,

Please find attached the results for the effluent sample collected at the Penta Wood site on 9/28/2015. PCP was detected in the effluent at a concentration of 0.051 ug/L (estimated), which is below the permit criteria of 0.1 ug/L. This was the final sample collected in September. The monthly average PCP effluent concentration was below the criteria.

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

Regards,

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

Please consider our environment before printing this email



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Job ID: 240-55943-1

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

Denise Heckler, Project Manager II

..... 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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
	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

Definitions/Glossary

Client: GHD Services Inc.

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

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Relative Percent Difference, a measure of the relative difference between two points

TestAmerica Job ID: 240-55943-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

5

Glossary

RL RPD

TEF

TEQ

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

Case Narrative

Client: GHD Services Inc.

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

TestAmerica Job ID: 240-55943-1

2

Job ID: 240-55943-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 86165-02-01, Penta Wood

Report Number: 240-55943-1

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 09/29/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.9 C.

Per GHD the sampling date should be 9-28-15, not 9-21-15 as indicated on the COC.

CHLORINATED HERBICIDES

Sample W-150928-TB-WE (240-55943-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 09/30/2015 and analyzed on 10/02/2015.

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 180-155471.

Pentachlorophenol failed the recovery criteria high for LCSD 180-155471/3-A. Pentachlorophenol exceeded the RPD limit.

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

TestAmerica Canton 10/5/2015

Method Summary

Client: GHD Services Inc.

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

TestAmerica Job ID: 240-55943-1

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: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55943-1

2

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-55943-1
 W-150928-TB-WE
 Water
 09/28/15 15:30
 09/29/15 09:30

3

6

7

8

10

12

15

Detection Summary

Client: GHD Services Inc.

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

TestAmerica Job ID: 240-55943-1

Lab Sample ID: 240-55943-1

Basi

Client Sam	ple I	D: \	N-1	509	928-	TB-	-WE
------------	-------	------	------------	-----	------	-----	-----

AnalyteResultQualifierLOQLODUnitDil FacDMethodPrep TypePentachlorophenol0.051J * ^c0.100.016ug/L48151ATotal/NA

+

5

6

7

8

10

11

13

14

Client Sample Results

Client: GHD Services Inc.

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

TestAmerica Job ID: 240-55943-1

Client Sample ID: W-150928-TB-WE

Date Collected: 09/28/15 15:30 Date Received: 09/29/15 09:30 Lab Sample ID: 240-55943-1

Matrix: Water

Method: 8151A - Herbicides (GC)

 Analyte
 Result Pentachlorophenol
 Qualifier J × ^c
 LOQ Unit Ug/L
 Unit Ug/L
 D Prepared Ug/S0/30/15 17:15
 Analyzed Analyzed Molecular Ug/L
 Dil Fac Ug/L

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 2,4-Dichlorophenylacetic acid
 101
 32 - 140
 09/30/15 17:15
 10/02/15 13:23
 4

6

7

8

9

10

12

13

14

Surrogate Summary

Client: GHD Services Inc.

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

TestAmerica Job ID: 240-55943-1

245

Method: 8151A - Herbicides (GC)

Matrix: Water Prep Type: Total/NA

			Perce	nt Surrogate Recov	ery (Acceptance	Limits)
		DCPA1	DCPA2			
Lab Sample ID	Client Sample ID	(32-140)	(32-140)			
240-55943-1	W-150928-TB-WE	101	101			
LCS 180-155471/2-A	Lab Control Sample	70	68			
LCSD 180-155471/3-A	Lab Control Sample Dup	108	103			
MB 180-155471/1-A	Method Blank	77	77			
Surrogate Legend						
DCPA = 2,4-Dichloroph	envlacetic acid					

6

2

9

10

12

QC Sample Results

Client: GHD Services Inc.

Analysis Batch: 155704

Matrix: Water

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

TestAmerica Job ID: 240-55943-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-155471/1-A

Lab Sample ID: LCS 180-155471/2-A

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155471

MB MB Result Qualifier LOQ LOD Unit Analyte Prepared Analyzed Dil Fac 09/30/15 17:15 10/02/15 15:22 0.10 Pentachlorophenol < 0.016 0.016 ug/L

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 2,4-Dichlorophenylacetic acid 32 - 140 09/30/15 17:15 10/02/15 15:22

Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA Analysis Batch: 155704 Prep Batch: 155471

Spike LCS LCS %Rec. Added Result Qualifier D %Rec Limits Analyte Unit Pentachlorophenol 5.00 40 - 140 5.24 ug/L 105

LCS LCS

Limits Surrogate %Recovery Qualifier 32 - 140 2,4-Dichlorophenylacetic acid 70

Lab Sample ID: LCSD 180-155471/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Water Prep Type: Total/NA Analysis Batch: 155704 Prep Batch: 155471

Spike LCSD LCSD %Rec. RPD Added Limits RPD Limit Analyte Result Qualifier Unit D %Rec Pentachlorophenol 5.00 8.01 * 40 - 140 30 ug/L 160 42

LCSD LCSD Surrogate %Recovery Qualifier Limits 2,4-Dichlorophenylacetic acid 108 32 - 140

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.

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

TestAmerica Job ID: 240-55943-1

2

GC Semi VOA

Prep Batch: 155471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55943-1	W-150928-TB-WE	Total/NA	Water	8151A	
LCS 180-155471/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-155471/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-155471/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 155704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55943-1	W-150928-TB-WE	Total/NA	Water	8151A	155471
LCS 180-155471/2-A	Lab Control Sample	Total/NA	Water	8151A	155471
LCSD 180-155471/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	155471
MB 180-155471/1-A	Method Blank	Total/NA	Water	8151A	155471

3

5

6

8

9

14

12

13

14

Lab Chronicle

Client: GHD Services Inc.

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

TestAmerica Job ID: 240-55943-1

Client Sample ID: W-150928-TB-WE

Date Collected: 09/28/15 15:30 Date Received: 09/29/15 09:30

Lab Sample ID: 240-55943-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	8151A			155471	09/30/15 17:15	CBY	TAL PIT	
Total/NA	Analysis	8151A		4	155704	10/02/15 13:23	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: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55943-1

3

4

S S

7

9 4n

12

14

15

The certifications listed below are applicable to this report.

AuthorityProgramEPA RegionCertification IDExpiration DateWisconsinState Program599951819008-31-16

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	08-31-16



TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS





CHAIN OF CUSTODY RECORD

541039

COC NO.: **SP-** 01662 PAGE_[ON_

1801 Old Highway 8 Northwest, Suite 114 St. Paul, Minnesota 55112 United States

(See Reverse Side for Instructions) Phone: (651) 639-0913 Fax: (651) 639-0923 Project No/ Phase/Task Code: 086165 -02 -07 Laboratory Name: Lab Location: SSOW ID: TEST AMERICA NORTH (ANTON, UA Lab Contact: Project Name: Cooler No: Project Location: **CONTAINER QUANTITY &** Carrier: SAMPLE ANALYSIS REQUESTED Chemistry Contact: CARNT. ANDERSON & CHD. COM **PRESERVATION** TYPE: (See Back of COC for Definitions) Airbill No: Hydrochloric Acid (HCI) Total Containers/Sample Methanol/Water (Soil VOC) 815 Sampler(s): MS/MSD Request Date Shipped: COMMENTS/ SAMPLE IDENTIFICATION DATE TIME SPECIAL INSTRUCTIONS: Total Number of Containers: | Notes/ Special Requirements: TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week 🛣 Other: 🗸 All Samples in Cooler must be on COC COMPANY · · TIME RECEIVED BY COMPANY DATE TIME 200 STA 930 9-29115

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)















Client CIZA		Site Name		Cooler unpacked by:
Cooler Received on	1-29.15	Opened on 9-29.	15	
		Client Drop Off Tes	st America Courier	Other
Receipt After-hours: I		Cheffe Drop Off Tex	Storage Location_	Offici
TestAmerica Cooler#		ox Chent Cooler I	Box Other	
			None Other	
COOLANT:	Wet De Blue Ice	_	None Other	
Cooler temperature		Dry 100 Water	Ivono	
		Cooler Temp°C	Corrected Cooler T	emp. °C
		Cooler Temp°C		
		Cooler Temp. °C		
		ooler Temp. 5-4 °C		
		oler(s)? If Yes Quar		s No
		poler(s) signed & dated?		
	ls on the bottle(s) or bottl			s 🕭
	lip attached to the cooler			s No
	accompany the sample(s			s No
		ned in the appropriate pla		
		imples clearly identified	1	No
	e in good condition (Unb			No
	els be reconciled with the	the second restriction of the second	A	No ·
9. Were correct bottle			W.A.	s No
10. Sufficient quantity				No
11. Were sample(s) at t				No MA pH Strip Lot# HC554
12. Were VOAs on the		pr.	Vec	5 No.)
13. Were air bubbles >				No (NA
	-	rip Blank Lot#		
,				.0
Contacted PM	Date	by	via Verbal V	oice Mail Other
Concerning				
				Complex masses d by
14. CHAIN OF CUST	ODY & SAMPLE DISC	CREPANCIES		Samples processed by:
e e		× ×	(0) 8	
15. SAMPLE CONDI				
Sample(s)		were received after the	recommended hold	
Sample(s)			were received	l in a broken container.
Sample(s)			were received	
Sample(s) Sample(s) Sample(s)			were received	l in a broken container.
Sample(s) Sample(s)			were received with bubble >6 mm i	l in a broken container.

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 240-55943-1

Login Number: 55943 List Number: 2

List Source: TestAmerica Pittsburgh

Creator: Lonzo, Michael A

List Creation:	09/30/15	02:47	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	