

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 240-2164-1

Client Project/Site: Penta Wood Products Site

For:  
CH2M Hill, Inc.  
135 South 84th Street  
Suite 400  
Milwaukee, Wisconsin 53214

Attn: Ms. Shannon Olson



Authorized for release by:  
08/16/2011 03:20:29 PM

Kenneth Kuzior  
Project Manager II  
[ken.kuzior@testamericainc.com](mailto:ken.kuzior@testamericainc.com)

### LINKS

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[www.testamericainc.com](http://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.*

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# Definitions/Glossary

Client: CH2M Hill, Inc.  
Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
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: CH2M Hill, Inc.  
Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

**Job ID: 240-2164-1**

**Laboratory: TestAmerica North Canton**

**Narrative**

## CASE NARRATIVE

**Client: CH2M Hill, Inc.**

**Project: Penta Wood Products Site**

**Report Number: 240-2164-1**

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 North 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 07/22/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.2 C.

### CHLORINATED HERBICIDES

Samples 11CP04-54 (240-2164-1), 11CP04-55 (240-2164-2) and 11CP04-56 (240-2164-3) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were analyzed on 07/27/2011.

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.

Pentachlorophenol was detected in method blank MB 180-8280/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Samples 11CP04-54 (240-2164-1)[400X], 11CP04-55 (240-2164-2)[400X] and 11CP04-56 (240-2164-3)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the herbicides analyses.

# Case Narrative

Client: CH2M Hill, Inc.  
Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

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## Job ID: 240-2164-1 (Continued)

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### Laboratory: TestAmerica North Canton (Continued)

All other quality control parameters were within the acceptance limits.

#### **PERCENT SOLIDS**

Samples 11CP04-54 (240-2164-1), 11CP04-55 (240-2164-2) and 11CP04-56 (240-2164-3) were analyzed for percent solids in accordance with EPA SW846 Method 3550C. The samples were analyzed on 07/22/2011.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

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# Method Summary

Client: CH2M Hill, Inc.

TestAmerica Job ID: 240-2164-1

Project/Site: Penta Wood Products Site

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Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	TAL PIT
Moisture	Percent Moisture	EPA	TAL PIT

**Protocol References:**

EPA = US Environmental Protection Agency

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

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# Sample Summary

Client: CH2M Hill, Inc.

TestAmerica Job ID: 240-2164-1

Project/Site: Penta Wood Products Site

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-2164-1	11CP04-54	Solid	07/21/11 12:00	07/22/11 10:15
240-2164-2	11CP04-55	Solid	07/21/11 12:15	07/22/11 10:15
240-2164-3	11CP04-56	Solid	07/21/11 12:30	07/22/11 10:15

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# Detection Summary

Client: CH2M Hill, Inc.  
Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

## Client Sample ID: 11CP04-54

Lab Sample ID: 240-2164-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	700	B	230	23	ug/Kg	400	☼	8151A	Total/NA

## Client Sample ID: 11CP04-55

Lab Sample ID: 240-2164-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	620	B	240	24	ug/Kg	400	☼	8151A	Total/NA

## Client Sample ID: 11CP04-56

Lab Sample ID: 240-2164-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	500	B	59	5.9	ug/Kg	100	☼	8151A	Total/NA

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# Client Sample Results

Client: CH2M Hill, Inc.  
Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

## Client Sample ID: 11CP04-54

Date Collected: 07/21/11 12:00  
Date Received: 07/22/11 10:15

## Lab Sample ID: 240-2164-1

Matrix: Solid  
Percent Solids: 96.1

### Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	700	B	230	23	ug/Kg	☼	07/25/11 05:39	07/27/11 14:32	400
<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4-Dichlorophenylacetic acid	53		42 - 140				07/25/11 05:39	07/27/11 14:32	400

## Client Sample ID: 11CP04-55

Date Collected: 07/21/11 12:15  
Date Received: 07/22/11 10:15

## Lab Sample ID: 240-2164-2

Matrix: Solid  
Percent Solids: 93.1

### Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	620	B	240	24	ug/Kg	☼	07/25/11 05:39	07/27/11 14:56	400
<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4-Dichlorophenylacetic acid	57		42 - 140				07/25/11 05:39	07/27/11 14:56	400

## Client Sample ID: 11CP04-56

Date Collected: 07/21/11 12:30  
Date Received: 07/22/11 10:15

## Lab Sample ID: 240-2164-3

Matrix: Solid  
Percent Solids: 93.7

### Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	500	B	59	5.9	ug/Kg	☼	07/25/11 05:39	07/27/11 15:20	100
<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4-Dichlorophenylacetic acid	54		42 - 140				07/25/11 05:39	07/27/11 15:20	100

# Surrogate Summary

Client: CH2M Hill, Inc.  
Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

**Method: 8151A - Herbicides (GC)**

**Matrix: Solid**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA1 (42-140)
240-2164-1	11CP04-54	53
240-2164-2	11CP04-55	57
240-2164-3	11CP04-56	54
LCS 180-8280/2-A	Lab Control Sample	85
LCSD 180-8280/3-A	Lab Control Sample Dup	83
MB 180-8280/1-A	Method Blank	68

### Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

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# QC Sample Results

Client: CH2M Hill, Inc.  
 Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

## Method: 8151A - Herbicides (GC)

**Lab Sample ID: MB 180-8280/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8666**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8280**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	1.10	J p	11	1.1	ug/Kg		07/25/11 05:39	07/27/11 12:32	20

**Lab Sample ID: MB 180-8280/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8672**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8280**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
2,4-Dichlorophenylacetic acid	68		42 - 140	07/25/11 05:39	07/27/11 12:56	20

**Lab Sample ID: LCS 180-8280/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8672**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8280**

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Pentachlorophenol	40.0	26.9		ug/Kg		67	60 - 140

  

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	85		42 - 140

**Lab Sample ID: LCSD 180-8280/3-A**  
**Matrix: Solid**  
**Analysis Batch: 8672**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 8280**

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec. RPD		
		Result	Qualifier				Limits	RPD	Limit
Pentachlorophenol	40.0	25.3		ug/Kg		63	60 - 140	3	30

  

Surrogate	LCSD LCSD		Limits
	% Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	83		42 - 140

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# QC Association Summary

Client: CH2M Hill, Inc.  
Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

## GC Semi VOA

### Prep Batch: 8280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-8280/1-A	Method Blank	Total/NA	Solid	8151A	
MB 180-8280/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 180-8280/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 180-8280/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	
240-2164-1	11CP04-54	Total/NA	Solid	8151A	
240-2164-2	11CP04-55	Total/NA	Solid	8151A	
240-2164-3	11CP04-56	Total/NA	Solid	8151A	

### Analysis Batch: 8666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-8280/1-A	Method Blank	Total/NA	Solid	8151A	8280

### Analysis Batch: 8672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-8280/1-A	Method Blank	Total/NA	Solid	8151A	8280
LCS 180-8280/2-A	Lab Control Sample	Total/NA	Solid	8151A	8280
240-2164-1	11CP04-54	Total/NA	Solid	8151A	8280
240-2164-2	11CP04-55	Total/NA	Solid	8151A	8280
240-2164-3	11CP04-56	Total/NA	Solid	8151A	8280
LCSD 180-8280/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	8280

## General Chemistry

### Analysis Batch: 8206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-2164-1	11CP04-54	Total/NA	Solid	Moisture	
240-2164-2	11CP04-55	Total/NA	Solid	Moisture	
240-2164-2 DU	11CP04-55	Total/NA	Solid	Moisture	
240-2164-3	11CP04-56	Total/NA	Solid	Moisture	



# Lab Chronicle

Client: CH2M Hill, Inc.  
Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

## Client Sample ID: 11CP04-54

Date Collected: 07/21/11 12:00

Date Received: 07/22/11 10:15

## Lab Sample ID: 240-2164-1

Matrix: Solid

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			8280	07/25/11 05:39	KG	TAL PIT
Total/NA	Analysis	8151A		400	8672	07/27/11 14:32	DE	TAL PIT
Total/NA	Analysis	Moisture		1	8206	07/22/11 16:10	DW	TAL PIT

## Client Sample ID: 11CP04-55

Date Collected: 07/21/11 12:15

Date Received: 07/22/11 10:15

## Lab Sample ID: 240-2164-2

Matrix: Solid

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			8280	07/25/11 05:39	KG	TAL PIT
Total/NA	Analysis	8151A		400	8672	07/27/11 14:56	DE	TAL PIT
Total/NA	Analysis	Moisture		1	8206	07/22/11 16:10	DW	TAL PIT

## Client Sample ID: 11CP04-56

Date Collected: 07/21/11 12:30

Date Received: 07/22/11 10:15

## Lab Sample ID: 240-2164-3

Matrix: Solid

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			8280	07/25/11 05:39	KG	TAL PIT
Total/NA	Analysis	8151A		100	8672	07/27/11 15:20	DE	TAL PIT
Total/NA	Analysis	Moisture		1	8206	07/22/11 16:10	DW	TAL PIT

### Laboratory References:

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

# Certification Summary

Client: CH2M Hill, Inc.  
Project/Site: Penta Wood Products Site

TestAmerica Job ID: 240-2164-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACCLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-08-00123
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190
TestAmerica Pittsburgh	ACCLASS	DoD ELAP		ADE-1422
TestAmerica Pittsburgh	Arkansas	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAC	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAC	4	E871008
TestAmerica Pittsburgh	Illinois	NELAC	5	002602
TestAmerica Pittsburgh	Kansas	NELAC	7	E-10350
TestAmerica Pittsburgh	Louisiana	NELAC	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAC	1	203011
TestAmerica Pittsburgh	New Jersey	NELAC	2	PA005
TestAmerica Pittsburgh	New York	NELAC	2	11182
TestAmerica Pittsburgh	North Carolina	North Carolina DENR	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAC	3	02-00416
TestAmerica Pittsburgh	Pennsylvania	State Program	3	02-416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014002
TestAmerica Pittsburgh	USDA	USDA		P-Soil-01
TestAmerica Pittsburgh	USDA	USDA		P330-10-00139
TestAmerica Pittsburgh	Utah	NELAC	8	STLP
TestAmerica Pittsburgh	West Virginia	West Virginia DEP	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



**USEPA Contract Laboratory Program  
Generic Chain of Custody**

Date Shipped: 7/21/2011  
 Carrier Name: FedEx (8723 828) 8665  
 Airbill: 8723 8281 8654  
 Shipped to: TEST AMERICA NORTH  
 301 Alpha Dr  
 GANTON  
 4104 SHUFFELST NW  
 Pittsburgh, PA  
 15238  
 (330) 966-9799

**Chain of Custody Record**  
 Relinquished By (Date / Time)  
 1. *[Signature]* 7/21/2011 / 300  
 2. : :  
 3. : :  
 4. : :

Sampler Signature Received By (Date / Time)  
*[Signature]* 7/22/11 10:15

**Reference Case**  
 Client No: 11CP04  
 SDG No: L

**For Lab Use Only**  
 Lab Contract No:  
 Unit Price:  
 Transfer To:  
 Lab Contract No:  
 Unit Price:

SAMPLE NO.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11CP04-54	Soil (>12") 3.3 ft Shawn Broughman	LG	PCP. (21)	5C-7741 (Ice Only) (1)	PWP-STAIN-1 <i>East Wall</i>	S: 7/21/2011 12:00	
11CP04-55	Soil (>12") 3.6 ft Shawn Broughman	LG	PCP. (21)	5C-7742 (Ice Only) (1)	PWP-STAIN-2 <i>South Wall</i>	S: 7/21/2011 12:15	
11CP04-56	Soil (>12") 3.5 ft Shawn Broughman	LG	PCP. (21)	5C-7743 (Ice Only) (1)	PWP-STAIN-3 <i>THRU HOLE Bottom</i>	S: 7/21/2011 12:30	

*72 HR TAT*

Shipment for Case Complete?

Sample(s) to be used for laboratory QC: *[Signature]* 7/22/11 10:15

Concentration: L = Low, M = Low/Medium, H = High

Chain of Custody Seal Number: 107905/107906

Cooler Temperature Upon Receipt: 3.2

Custody Seal Intact?  Shipment Iced?

Type/Designate: Composite = C, Grab = G

**TR Number: 5-264768350-072011-0002**  
 PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
 Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4200

**LABORATORY COPY**  
 FAVS.1.043 Page 1 of 1



## Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 240-2164-1

**Login Number: 2164**

**List Source: TestAmerica North Canton**

**List Number: 1**

**Creator: McFadden, John**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	3.2
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





# Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 240-2164-1

**Login Number: 2164**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**List Creation: 07/22/11 03:01 PM**

**Creator: Radzevick, Jaclyn**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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 sample IDs on the containers 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	