



Memorandum

April 20, 2017

To: Dave Favero (RACER)

Ref. No.: 007878

From: *J.E.P.*
John-eric Pardys/kf/164

Subject: **Topsoil Characterization**

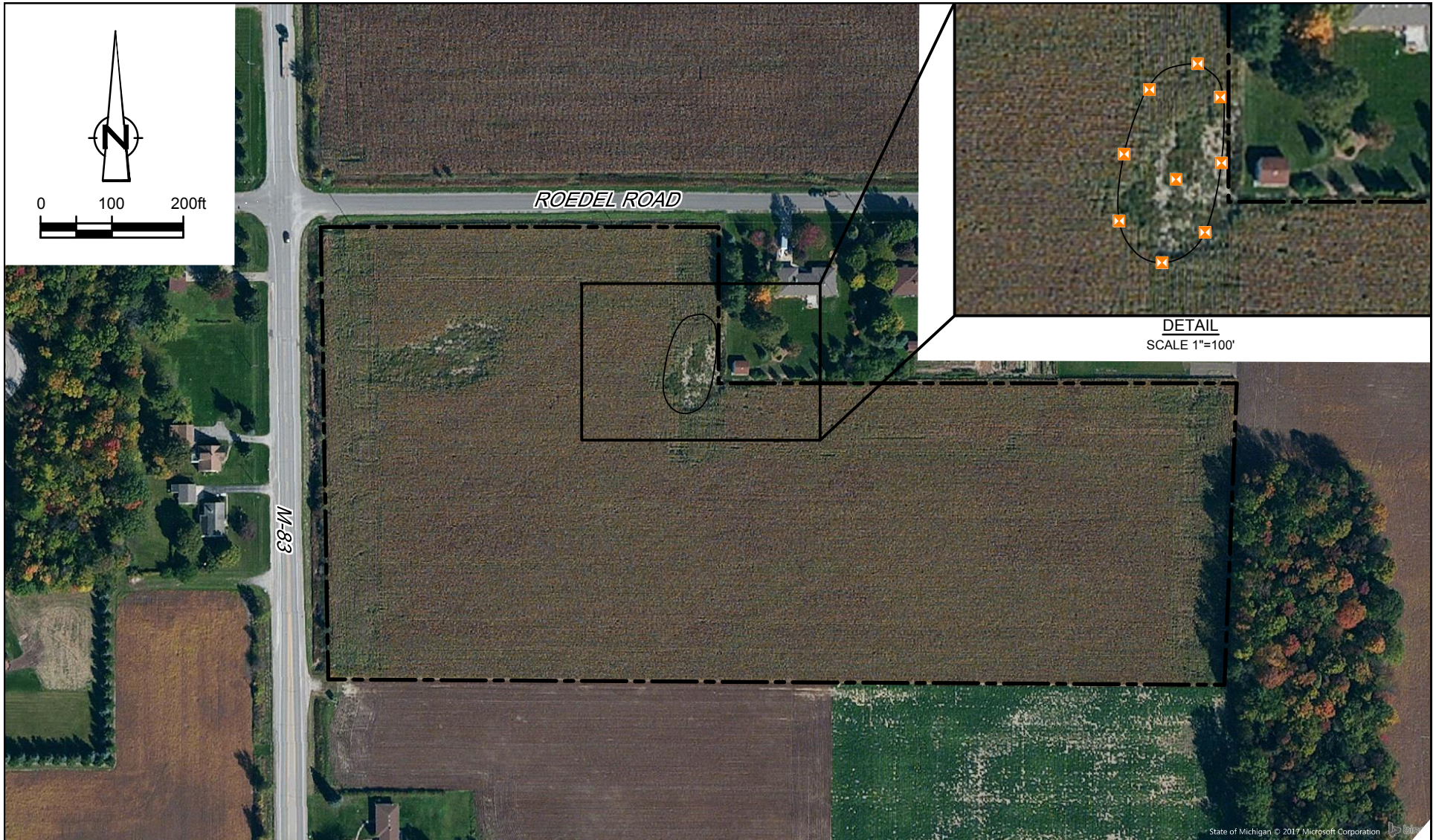
JSS identified a potential source of topsoil to be used at RACER's Saginaw Malleable Industrial Land (Site), in Saginaw, Michigan. The potential topsoil source is located at the intersection of Roedel Road and M-83, Frankenmuth, Michigan as shown in Figure 1. JSS's topsoil subcontractor provided a letter indicating that this land has been virgin farmland for the past 50 years and that historical records do not identify and other land uses (Attachment A).

On, January 12, 2017, GHD reached out to MDEQ to obtain concurrence on an acceptable approach to characterizing the topsoil. On, January 13, 2017, MDEQ provided their concurrence on the approach to characterizing the topsoil which included: collecting 9 discrete samples of the topsoil and analyzing for Pesticides (Method SW 846 8081), Herbicides (Method SW 846 8151), Atrazine and Alachlor (Method SW 846 8270), and Arsenic and Lead (Method 6020).

On April 5, 2017, GHD conducted a Site visit to inspect the topsoil pile and collect 9 discrete samples. Photos of the stockpile are included in Attachment B. The topsoil stockpile was approximately 150' x 60' x 30'. Field staff dug into the pile before collecting the samples. Samples were collected at eight locations surrounding the pile and one sample was collected from the top of the pile. The approximate locations of the samples collected are identified on Figure 1. Samples were submitted to the laboratory on a 1-week turn.

There were no detections reported for pesticides or herbicides. The only detections were for arsenic ranging between 2.7 to 5.0 mg/kg, which is below the statewide default background level (5.8 mg/kg) and lead ranging between 7.9 to 12 mg/kg, which is below the statewide default background level (21 mg/kg). A copy of the analytical report is provided in Attachment C.

Therefore, based on the characterization results, the topsoil is suitable for use at the Site.



Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Acquisition Date Jun/2011 - Oct/2011, Accessed: 2017

figure 1

TOPSOIL SOURCE

INTERSECTION OF ROEDEL ROAD AND M-83, FRANKENMUTH, MICHIGAN

Racor Saginaw Malleable Industrial Land



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- ✕ TOPSOIL DISCRETE SAMPLE LOCATION

Attachment A

EGGERS EXCAVATING, LLC
PO Box 5908
Saginaw, MI 48603
(989) 695-5205

April 12, 2017

RE: Letter of Virgin Source

To Whom It May Concern:

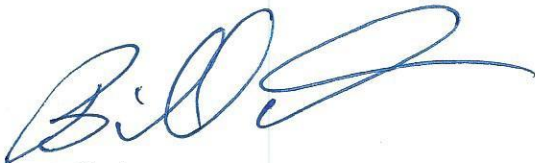
Eggers Excavating, LLC recently purchased an estimated volume of 8,000 ton of topsoil from a piece of property located at the southeast corner of Roedel Road and M83, Frankenmuth, Michigan. A formal street address has not been assigned at this time. The legal description for the site is: COM AT NW CORN OF SEC 23 TH E 618.89 FT TH S 250.02 FT TH E 715.16 FT TH S 418.98 FT TH W 1334.24 FT TO W SEC LINE TH N 669.37 FT TO POB 16.39 ACRES SEC 23 T11N R6E. The site is being developed as commercial property. Part of the development process is to remove the upper portion of the site soil which is topsoil. This site has been virgin farmland for over the past 50 years.

Historical records indicate that the land has never been utilized for any other purpose.

If you should have any further questions please feel free to call me at (989) 220-1514.

Respectfully Submitted,

EGGERS EXCAVATING LLC

A handwritten signature in blue ink, appearing to read 'Bill Slaughter', is written over a horizontal line.

Bill Slaughter
VP of Operations

Attachment B



Photo 1 Topsoil Stockpile. Date – 4/05/2017



Photo 2 Topsoil Stockpile. Date – 4/05/2017





Photo 3 Topsoil Stockpile. Date – 4/05/2017



Site Photographs



Photo 4 Topsoil Stockpile. Date – 4/05/2016

Attachment C

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: 240-77758-1

Client Project/Site: 7878, RACER SMI

For:

GHD Services Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Ms. Ruth Mickle



Authorized for release by:

4/13/2017 1:02:07 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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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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Case Narrative

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Job ID: 240-77758-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-77758-1

Comments

No additional comments.

Receipt

The samples were received on 4/6/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

GC/MS Semi VOA

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

GC Semi VOA

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 240-274329 recovered above the upper control limit for 2,4,5-T, 2,4-D and Silvex (2,4,5-TP). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: S-7878-040517-SSH-HA06 (240-77758-6), S-7878-040517-SSH-HA07 (240-77758-7), S-7878-040517-SSH-HA08 (240-77758-8), S-7878-040517-SSH-HA09 (240-77758-9) and S-7878-040517-SSH-HA10 (240-77758-10).

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 240-274329 recovered above the upper control limit for Silvex (2,4,5-TP). The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: S-7878-040517-SSH-HA01 (240-77758-1), S-7878-040517-SSH-HA02 (240-77758-2), S-7878-040517-SSH-HA03 (240-77758-3), S-7878-040517-SSH-HA04 (240-77758-4) and S-7878-040517-SSH-HA05 (240-77758-5).

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

Metals

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

General Chemistry

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

Organic Prep

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
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.
α	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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-77758-1	S-7878-040517-SSH-HA01	Solid	04/05/17 11:05	04/06/17 09:15
240-77758-2	S-7878-040517-SSH-HA02	Solid	04/05/17 11:10	04/06/17 09:15
240-77758-3	S-7878-040517-SSH-HA03	Solid	04/05/17 11:15	04/06/17 09:15
240-77758-4	S-7878-040517-SSH-HA04	Solid	04/05/17 11:16	04/06/17 09:15
240-77758-5	S-7878-040517-SSH-HA05	Solid	04/05/17 11:25	04/06/17 09:15
240-77758-6	S-7878-040517-SSH-HA06	Solid	04/05/17 11:30	04/06/17 09:15
240-77758-7	S-7878-040517-SSH-HA07	Solid	04/05/17 11:40	04/06/17 09:15
240-77758-8	S-7878-040517-SSH-HA08	Solid	04/05/17 11:45	04/06/17 09:15
240-77758-9	S-7878-040517-SSH-HA09	Solid	04/05/17 11:50	04/06/17 09:15
240-77758-10	S-7878-040517-SSH-HA10	Solid	04/05/17 11:55	04/06/17 09:15

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Client Sample ID: S-7878-040517-SSH-HA01

Lab Sample ID: 240-77758-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	4.4		1.1	0.030	mg/Kg	2		✖	6020	Total/NA
Lead	11		0.23	0.052	mg/Kg	2		✖	6020	Total/NA

Client Sample ID: S-7878-040517-SSH-HA02

Lab Sample ID: 240-77758-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.8		0.93	0.024	mg/Kg	2		✖	6020	Total/NA
Lead	11		0.19	0.042	mg/Kg	2		✖	6020	Total/NA

Client Sample ID: S-7878-040517-SSH-HA03

Lab Sample ID: 240-77758-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	5.0		1.2	0.030	mg/Kg	2		✖	6020	Total/NA
Lead	11		0.23	0.052	mg/Kg	2		✖	6020	Total/NA

Client Sample ID: S-7878-040517-SSH-HA04

Lab Sample ID: 240-77758-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	3.7		0.91	0.024	mg/Kg	2		✖	6020	Total/NA
Lead	11		0.18	0.041	mg/Kg	2		✖	6020	Total/NA

Client Sample ID: S-7878-040517-SSH-HA05

Lab Sample ID: 240-77758-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.5		1.2	0.031	mg/Kg	2		✖	6020	Total/NA
Lead	12		0.24	0.053	mg/Kg	2		✖	6020	Total/NA

Client Sample ID: S-7878-040517-SSH-HA06

Lab Sample ID: 240-77758-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	3.1		1.1	0.028	mg/Kg	2		✖	6020	Total/NA
Lead	12		0.21	0.048	mg/Kg	2		✖	6020	Total/NA

Client Sample ID: S-7878-040517-SSH-HA07

Lab Sample ID: 240-77758-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.9		1.1	0.029	mg/Kg	2		✖	6020	Total/NA
Lead	7.9		0.22	0.050	mg/Kg	2		✖	6020	Total/NA

Client Sample ID: S-7878-040517-SSH-HA08

Lab Sample ID: 240-77758-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.7		1.1	0.028	mg/Kg	2		✖	6020	Total/NA
Lead	11		0.21	0.048	mg/Kg	2		✖	6020	Total/NA

Client Sample ID: S-7878-040517-SSH-HA09

Lab Sample ID: 240-77758-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	3.4		0.88	0.023	mg/Kg	2		✖	6020	Total/NA
Lead	9.7		0.18	0.040	mg/Kg	2		✖	6020	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Client Sample ID: S-7878-040517-SSH-HA10

Lab Sample ID: 240-77758-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		0.89	0.023	mg/Kg	2	☼	6020	Total/NA
Lead	9.0		0.18	0.040	mg/Kg	2	☼	6020	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081A	Organochlorine Pesticides (GC)	SW846	TAL CAN
8151A	Herbicides (GC)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

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 BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA01

Date Collected: 04/05/17 11:05

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-1

Matrix: Solid

Percent Solids: 80.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	400	U	400	100	ug/Kg	☼	04/10/17 14:12	04/11/17 12:27	1
Atrazine	210	U	210	72	ug/Kg	☼	04/10/17 14:12	04/11/17 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		54 - 120				04/10/17 14:12	04/11/17 12:27	1
2-Fluorobiphenyl	78		60 - 120				04/10/17 14:12	04/11/17 12:27	1
2-Fluorophenol (Surr)	64		52 - 120				04/10/17 14:12	04/11/17 12:27	1
Nitrobenzene-d5 (Surr)	69		53 - 120				04/10/17 14:12	04/11/17 12:27	1
p-Terphenyl-d14 (Surr)	86		65 - 121				04/10/17 14:12	04/11/17 12:27	1
Phenol-d5 (Surr)	69		54 - 120				04/10/17 14:12	04/11/17 12:27	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA02

Date Collected: 04/05/17 11:10

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-2

Matrix: Solid

Percent Solids: 81.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	400	U	400	100	ug/Kg	☼	04/10/17 14:12	04/11/17 12:53	1
Atrazine	210	U	210	71	ug/Kg	☼	04/10/17 14:12	04/11/17 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		54 - 120				04/10/17 14:12	04/11/17 12:53	1
2-Fluorobiphenyl	75		60 - 120				04/10/17 14:12	04/11/17 12:53	1
2-Fluorophenol (Surr)	66		52 - 120				04/10/17 14:12	04/11/17 12:53	1
Nitrobenzene-d5 (Surr)	69		53 - 120				04/10/17 14:12	04/11/17 12:53	1
p-Terphenyl-d14 (Surr)	81		65 - 121				04/10/17 14:12	04/11/17 12:53	1
Phenol-d5 (Surr)	70		54 - 120				04/10/17 14:12	04/11/17 12:53	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA03

Date Collected: 04/05/17 11:15

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-3

Matrix: Solid

Percent Solids: 81.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	400	U	400	100	ug/Kg	☼	04/10/17 14:12	04/11/17 13:20	1
Atrazine	210	U	210	71	ug/Kg	☼	04/10/17 14:12	04/11/17 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		54 - 120				04/10/17 14:12	04/11/17 13:20	1
2-Fluorobiphenyl	76		60 - 120				04/10/17 14:12	04/11/17 13:20	1
2-Fluorophenol (Surr)	71		52 - 120				04/10/17 14:12	04/11/17 13:20	1
Nitrobenzene-d5 (Surr)	71		53 - 120				04/10/17 14:12	04/11/17 13:20	1
p-Terphenyl-d14 (Surr)	85		65 - 121				04/10/17 14:12	04/11/17 13:20	1
Phenol-d5 (Surr)	75		54 - 120				04/10/17 14:12	04/11/17 13:20	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA04

Date Collected: 04/05/17 11:16

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-4

Matrix: Solid

Percent Solids: 80.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	400	U	400	100	ug/Kg	☼	04/10/17 14:12	04/11/17 13:46	1
Atrazine	210	U	210	71	ug/Kg	☼	04/10/17 14:12	04/11/17 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		54 - 120				04/10/17 14:12	04/11/17 13:46	1
2-Fluorobiphenyl	78		60 - 120				04/10/17 14:12	04/11/17 13:46	1
2-Fluorophenol (Surr)	70		52 - 120				04/10/17 14:12	04/11/17 13:46	1
Nitrobenzene-d5 (Surr)	73		53 - 120				04/10/17 14:12	04/11/17 13:46	1
p-Terphenyl-d14 (Surr)	86		65 - 121				04/10/17 14:12	04/11/17 13:46	1
Phenol-d5 (Surr)	75		54 - 120				04/10/17 14:12	04/11/17 13:46	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA05

Date Collected: 04/05/17 11:25

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-5

Matrix: Solid

Percent Solids: 81.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	400	U	400	100	ug/Kg	☼	04/10/17 14:12	04/11/17 14:12	1
Atrazine	210	U	210	72	ug/Kg	☼	04/10/17 14:12	04/11/17 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		54 - 120				04/10/17 14:12	04/11/17 14:12	1
2-Fluorobiphenyl	79		60 - 120				04/10/17 14:12	04/11/17 14:12	1
2-Fluorophenol (Surr)	73		52 - 120				04/10/17 14:12	04/11/17 14:12	1
Nitrobenzene-d5 (Surr)	73		53 - 120				04/10/17 14:12	04/11/17 14:12	1
p-Terphenyl-d14 (Surr)	89		65 - 121				04/10/17 14:12	04/11/17 14:12	1
Phenol-d5 (Surr)	77		54 - 120				04/10/17 14:12	04/11/17 14:12	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA06

Date Collected: 04/05/17 11:30

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-6

Matrix: Solid

Percent Solids: 82.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	390	U	390	100	ug/Kg	☼	04/10/17 14:12	04/11/17 14:39	1
Atrazine	200	U	200	70	ug/Kg	☼	04/10/17 14:12	04/11/17 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		54 - 120				04/10/17 14:12	04/11/17 14:39	1
2-Fluorobiphenyl	77		60 - 120				04/10/17 14:12	04/11/17 14:39	1
2-Fluorophenol (Surr)	71		52 - 120				04/10/17 14:12	04/11/17 14:39	1
Nitrobenzene-d5 (Surr)	68		53 - 120				04/10/17 14:12	04/11/17 14:39	1
p-Terphenyl-d14 (Surr)	83		65 - 121				04/10/17 14:12	04/11/17 14:39	1
Phenol-d5 (Surr)	74		54 - 120				04/10/17 14:12	04/11/17 14:39	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA07

Date Collected: 04/05/17 11:40

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-7

Matrix: Solid

Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	380	U	380	97	ug/Kg	☼	04/10/17 14:12	04/11/17 12:01	1
Atrazine	190	U	190	68	ug/Kg	☼	04/10/17 14:12	04/11/17 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		54 - 120				04/10/17 14:12	04/11/17 12:01	1
2-Fluorobiphenyl	62		60 - 120				04/10/17 14:12	04/11/17 12:01	1
2-Fluorophenol (Surr)	54		52 - 120				04/10/17 14:12	04/11/17 12:01	1
Nitrobenzene-d5 (Surr)	55		53 - 120				04/10/17 14:12	04/11/17 12:01	1
p-Terphenyl-d14 (Surr)	75		65 - 121				04/10/17 14:12	04/11/17 12:01	1
Phenol-d5 (Surr)	58		54 - 120				04/10/17 14:12	04/11/17 12:01	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA08

Date Collected: 04/05/17 11:45

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-8

Matrix: Solid

Percent Solids: 81.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	410	U	410	100	ug/Kg	☼	04/10/17 14:12	04/11/17 15:05	1
Atrazine	210	U	210	73	ug/Kg	☼	04/10/17 14:12	04/11/17 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		54 - 120				04/10/17 14:12	04/11/17 15:05	1
2-Fluorobiphenyl	80		60 - 120				04/10/17 14:12	04/11/17 15:05	1
2-Fluorophenol (Surr)	73		52 - 120				04/10/17 14:12	04/11/17 15:05	1
Nitrobenzene-d5 (Surr)	75		53 - 120				04/10/17 14:12	04/11/17 15:05	1
p-Terphenyl-d14 (Surr)	88		65 - 121				04/10/17 14:12	04/11/17 15:05	1
Phenol-d5 (Surr)	77		54 - 120				04/10/17 14:12	04/11/17 15:05	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA09

Date Collected: 04/05/17 11:50

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-9

Matrix: Solid

Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	400	U	400	100	ug/Kg	☼	04/10/17 14:12	04/11/17 15:31	1
Atrazine	200	U	200	71	ug/Kg	☼	04/10/17 14:12	04/11/17 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		54 - 120				04/10/17 14:12	04/11/17 15:31	1
2-Fluorobiphenyl	72		60 - 120				04/10/17 14:12	04/11/17 15:31	1
2-Fluorophenol (Surr)	61		52 - 120				04/10/17 14:12	04/11/17 15:31	1
Nitrobenzene-d5 (Surr)	64		53 - 120				04/10/17 14:12	04/11/17 15:31	1
p-Terphenyl-d14 (Surr)	81		65 - 121				04/10/17 14:12	04/11/17 15:31	1
Phenol-d5 (Surr)	68		54 - 120				04/10/17 14:12	04/11/17 15:31	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: S-7878-040517-SSH-HA10

Date Collected: 04/05/17 11:55

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-10

Matrix: Solid

Percent Solids: 82.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	390	U	390	100	ug/Kg	☼	04/10/17 14:12	04/11/17 15:58	1
Atrazine	200	U	200	70	ug/Kg	☼	04/10/17 14:12	04/11/17 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		54 - 120				04/10/17 14:12	04/11/17 15:58	1
2-Fluorobiphenyl	74		60 - 120				04/10/17 14:12	04/11/17 15:58	1
2-Fluorophenol (Surr)	66		52 - 120				04/10/17 14:12	04/11/17 15:58	1
Nitrobenzene-d5 (Surr)	65		53 - 120				04/10/17 14:12	04/11/17 15:58	1
p-Terphenyl-d14 (Surr)	83		65 - 121				04/10/17 14:12	04/11/17 15:58	1
Phenol-d5 (Surr)	71		54 - 120				04/10/17 14:12	04/11/17 15:58	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA01

Date Collected: 04/05/17 11:05

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-1

Matrix: Solid

Percent Solids: 80.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.5	U	6.5	4.2	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
4,4'-DDE	6.5	U	6.5	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
4,4'-DDT	6.5	U	6.5	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Aldrin	6.5	U	6.5	3.0	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
alpha-BHC	6.5	U	6.5	2.0	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
alpha-Chlordane	6.5	U	6.5	4.8	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
beta-BHC	6.5	U	6.5	4.9	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
delta-BHC	6.5	U	6.5	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Dieldrin	6.5	U	6.5	1.1	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Endosulfan I	6.5	U	6.5	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Endosulfan II	6.5	U	6.5	2.3	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Endosulfan sulfate	6.5	U	6.5	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Endrin	6.5	U	6.5	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Endrin aldehyde	6.5	U	6.5	2.3	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Endrin ketone	6.5	U	6.5	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
gamma-BHC (Lindane)	6.5	U	6.5	3.7	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
gamma-Chlordane	6.5	U	6.5	1.9	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Heptachlor	6.5	U	6.5	0.99	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Heptachlor epoxide	6.5	U	6.5	3.0	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Methoxychlor	13	U	13	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1
Toxaphene	130	U	130	47	ug/Kg	☼	04/07/17 09:01	04/11/17 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	53		13 - 135	04/07/17 09:01	04/11/17 11:59	1
Tetrachloro-m-xylene	75		30 - 120	04/07/17 09:01	04/11/17 11:59	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA02

Date Collected: 04/05/17 11:10

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-2

Matrix: Solid

Percent Solids: 81.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.4	U	6.4	4.1	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
4,4'-DDE	6.4	U	6.4	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
4,4'-DDT	6.4	U	6.4	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Aldrin	6.4	U	6.4	3.0	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
alpha-BHC	6.4	U	6.4	2.0	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
alpha-Chlordane	6.4	U	6.4	4.8	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
beta-BHC	6.4	U	6.4	4.9	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
delta-BHC	6.4	U	6.4	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Dieldrin	6.4	U	6.4	1.1	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Endosulfan I	6.4	U	6.4	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Endosulfan II	6.4	U	6.4	2.3	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Endosulfan sulfate	6.4	U	6.4	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Endrin	6.4	U	6.4	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Endrin aldehyde	6.4	U	6.4	2.3	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Endrin ketone	6.4	U	6.4	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
gamma-BHC (Lindane)	6.4	U	6.4	3.6	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
gamma-Chlordane	6.4	U	6.4	1.9	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Heptachlor	6.4	U	6.4	0.98	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Heptachlor epoxide	6.4	U	6.4	3.0	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Methoxychlor	12	U	12	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1
Toxaphene	130	U	130	47	ug/Kg	☼	04/07/17 09:01	04/11/17 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	44		13 - 135	04/07/17 09:01	04/11/17 12:23	1
Tetrachloro-m-xylene	68		30 - 120	04/07/17 09:01	04/11/17 12:23	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA03

Date Collected: 04/05/17 11:15

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-3

Matrix: Solid

Percent Solids: 81.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.0	U	6.0	3.9	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
4,4'-DDE	6.0	U	6.0	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
4,4'-DDT	6.0	U	6.0	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Aldrin	6.0	U	6.0	2.8	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
alpha-BHC	6.0	U	6.0	1.9	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
alpha-Chlordane	6.0	U	6.0	4.5	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
beta-BHC	6.0	U	6.0	4.6	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
delta-BHC	6.0	U	6.0	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Dieldrin	6.0	U	6.0	1.1	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Endosulfan I	6.0	U	6.0	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Endosulfan II	6.0	U	6.0	2.1	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Endosulfan sulfate	6.0	U	6.0	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Endrin	6.0	U	6.0	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Endrin aldehyde	6.0	U	6.0	2.1	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Endrin ketone	6.0	U	6.0	1.3	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
gamma-BHC (Lindane)	6.0	U	6.0	3.4	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
gamma-Chlordane	6.0	U	6.0	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Heptachlor	6.0	U	6.0	0.92	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Heptachlor epoxide	6.0	U	6.0	2.8	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Methoxychlor	12	U	12	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1
Toxaphene	120	U	120	44	ug/Kg	☼	04/07/17 09:01	04/11/17 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	37		13 - 135	04/07/17 09:01	04/11/17 12:48	1
Tetrachloro-m-xylene	50		30 - 120	04/07/17 09:01	04/11/17 12:48	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA04

Date Collected: 04/05/17 11:16

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-4

Matrix: Solid

Percent Solids: 80.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.2	U	6.2	4.0	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
4,4'-DDE	6.2	U	6.2	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
4,4'-DDT	6.2	U	6.2	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Aldrin	6.2	U	6.2	2.9	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
alpha-BHC	6.2	U	6.2	2.0	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
alpha-Chlordane	6.2	U	6.2	4.7	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
beta-BHC	6.2	U	6.2	4.8	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
delta-BHC	6.2	U	6.2	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Dieldrin	6.2	U	6.2	1.1	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Endosulfan I	6.2	U	6.2	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Endosulfan II	6.2	U	6.2	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Endosulfan sulfate	6.2	U	6.2	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Endrin	6.2	U	6.2	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Endrin aldehyde	6.2	U	6.2	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Endrin ketone	6.2	U	6.2	1.3	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
gamma-BHC (Lindane)	6.2	U	6.2	3.6	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
gamma-Chlordane	6.2	U	6.2	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Heptachlor	6.2	U	6.2	0.96	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Heptachlor epoxide	6.2	U	6.2	2.9	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Methoxychlor	12	U	12	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1
Toxaphene	120	U	120	45	ug/Kg	☼	04/07/17 09:01	04/11/17 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		13 - 135	04/07/17 09:01	04/11/17 13:13	1
Tetrachloro-m-xylene	56		30 - 120	04/07/17 09:01	04/11/17 13:13	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA05

Date Collected: 04/05/17 11:25

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-5

Matrix: Solid

Percent Solids: 81.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.5	U	6.5	4.2	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
4,4'-DDE	6.5	U	6.5	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
4,4'-DDT	6.5	U	6.5	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Aldrin	6.5	U	6.5	3.1	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
alpha-BHC	6.5	U	6.5	2.0	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
alpha-Chlordane	6.5	U	6.5	4.8	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
beta-BHC	6.5	U	6.5	5.0	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
delta-BHC	6.5	U	6.5	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Dieldrin	6.5	U	6.5	1.1	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Endosulfan I	6.5	U	6.5	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Endosulfan II	6.5	U	6.5	2.3	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Endosulfan sulfate	6.5	U	6.5	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Endrin	6.5	U	6.5	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Endrin aldehyde	6.5	U	6.5	2.3	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Endrin ketone	6.5	U	6.5	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
gamma-BHC (Lindane)	6.5	U	6.5	3.7	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
gamma-Chlordane	6.5	U	6.5	1.9	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Heptachlor	6.5	U	6.5	0.99	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Heptachlor epoxide	6.5	U	6.5	3.1	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Methoxychlor	13	U	13	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1
Toxaphene	130	U	130	47	ug/Kg	☼	04/07/17 09:01	04/11/17 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	41		13 - 135	04/07/17 09:01	04/11/17 13:38	1
Tetrachloro-m-xylene	56		30 - 120	04/07/17 09:01	04/11/17 13:38	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA06

Date Collected: 04/05/17 11:30

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-6

Matrix: Solid

Percent Solids: 82.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.4	U	6.4	4.1	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
4,4'-DDE	6.4	U	6.4	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
4,4'-DDT	6.4	U	6.4	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Aldrin	6.4	U	6.4	3.0	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
alpha-BHC	6.4	U	6.4	2.0	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
alpha-Chlordane	6.4	U	6.4	4.7	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
beta-BHC	6.4	U	6.4	4.9	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
delta-BHC	6.4	U	6.4	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Dieldrin	6.4	U	6.4	1.1	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Endosulfan I	6.4	U	6.4	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Endosulfan II	6.4	U	6.4	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Endosulfan sulfate	6.4	U	6.4	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Endrin	6.4	U	6.4	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Endrin aldehyde	6.4	U	6.4	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Endrin ketone	6.4	U	6.4	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
gamma-BHC (Lindane)	6.4	U	6.4	3.6	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
gamma-Chlordane	6.4	U	6.4	1.9	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Heptachlor	6.4	U	6.4	0.97	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Heptachlor epoxide	6.4	U	6.4	3.0	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Methoxychlor	12	U	12	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1
Toxaphene	120	U	120	46	ug/Kg	☼	04/07/17 09:01	04/11/17 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38		13 - 135	04/07/17 09:01	04/11/17 14:03	1
Tetrachloro-m-xylene	45		30 - 120	04/07/17 09:01	04/11/17 14:03	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA07

Date Collected: 04/05/17 11:40

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-7

Matrix: Solid

Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	5.9	U	5.9	3.8	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
4,4'-DDE	5.9	U	5.9	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
4,4'-DDT	5.9	U	5.9	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Aldrin	5.9	U	5.9	2.8	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
alpha-BHC	5.9	U	5.9	1.9	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
alpha-Chlordane	5.9	U	5.9	4.4	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
beta-BHC	5.9	U	5.9	4.5	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
delta-BHC	5.9	U	5.9	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Dieldrin	5.9	U	5.9	1.0	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Endosulfan I	5.9	U	5.9	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Endosulfan II	5.9	U	5.9	2.1	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Endosulfan sulfate	5.9	U	5.9	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Endrin	5.9	U	5.9	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Endrin aldehyde	5.9	U	5.9	2.1	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Endrin ketone	5.9	U	5.9	1.3	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
gamma-BHC (Lindane)	5.9	U	5.9	3.4	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
gamma-Chlordane	5.9	U	5.9	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Heptachlor	5.9	U	5.9	0.91	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Heptachlor epoxide	5.9	U	5.9	2.8	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Methoxychlor	12	U	12	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1
Toxaphene	120	U	120	43	ug/Kg	☼	04/07/17 09:01	04/11/17 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		13 - 135	04/07/17 09:01	04/11/17 14:29	1
Tetrachloro-m-xylene	52		30 - 120	04/07/17 09:01	04/11/17 14:29	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA08

Date Collected: 04/05/17 11:45

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-8

Matrix: Solid

Percent Solids: 81.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.3	U	6.3	4.1	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
4,4'-DDE	6.3	U	6.3	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
4,4'-DDT	6.3	U	6.3	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Aldrin	6.3	U	6.3	2.9	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
alpha-BHC	6.3	U	6.3	2.0	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
alpha-Chlordane	6.3	U	6.3	4.7	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
beta-BHC	6.3	U	6.3	4.8	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
delta-BHC	6.3	U	6.3	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Dieldrin	6.3	U	6.3	1.1	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Endosulfan I	6.3	U	6.3	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Endosulfan II	6.3	U	6.3	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Endosulfan sulfate	6.3	U	6.3	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Endrin	6.3	U	6.3	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Endrin aldehyde	6.3	U	6.3	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Endrin ketone	6.3	U	6.3	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
gamma-BHC (Lindane)	6.3	U	6.3	3.6	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
gamma-Chlordane	6.3	U	6.3	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Heptachlor	6.3	U	6.3	0.96	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Heptachlor epoxide	6.3	U	6.3	2.9	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Methoxychlor	12	U	12	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1
Toxaphene	120	U	120	45	ug/Kg	☼	04/07/17 09:01	04/11/17 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	48		13 - 135	04/07/17 09:01	04/11/17 15:44	1
Tetrachloro-m-xylene	56		30 - 120	04/07/17 09:01	04/11/17 15:44	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA09

Date Collected: 04/05/17 11:50

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-9

Matrix: Solid

Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.3	U	6.3	4.1	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
4,4'-DDE	6.3	U	6.3	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
4,4'-DDT	6.3	U	6.3	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Aldrin	6.3	U	6.3	3.0	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
alpha-BHC	6.3	U	6.3	2.0	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
alpha-Chlordane	6.3	U	6.3	4.7	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
beta-BHC	6.3	U	6.3	4.8	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
delta-BHC	6.3	U	6.3	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Dieldrin	6.3	U	6.3	1.1	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Endosulfan I	6.3	U	6.3	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Endosulfan II	6.3	U	6.3	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Endosulfan sulfate	6.3	U	6.3	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Endrin	6.3	U	6.3	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Endrin aldehyde	6.3	U	6.3	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Endrin ketone	6.3	U	6.3	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
gamma-BHC (Lindane)	6.3	U	6.3	3.6	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
gamma-Chlordane	6.3	U	6.3	1.9	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Heptachlor	6.3	U	6.3	0.96	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Heptachlor epoxide	6.3	U	6.3	3.0	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Methoxychlor	12	U	12	1.5	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1
Toxaphene	120	U	120	46	ug/Kg	☼	04/07/17 09:01	04/11/17 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	35		13 - 135	04/07/17 09:01	04/11/17 16:09	1
Tetrachloro-m-xylene	47		30 - 120	04/07/17 09:01	04/11/17 16:09	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: S-7878-040517-SSH-HA10

Date Collected: 04/05/17 11:55

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-10

Matrix: Solid

Percent Solids: 82.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	6.1	U	6.1	3.9	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
4,4'-DDE	6.1	U	6.1	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
4,4'-DDT	6.1	U	6.1	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Aldrin	6.1	U	6.1	2.9	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
alpha-BHC	6.1	U	6.1	1.9	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
alpha-Chlordane	6.1	U	6.1	4.5	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
beta-BHC	6.1	U	6.1	4.7	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
delta-BHC	6.1	U	6.1	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Dieldrin	6.1	U	6.1	1.1	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Endosulfan I	6.1	U	6.1	1.6	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Endosulfan II	6.1	U	6.1	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Endosulfan sulfate	6.1	U	6.1	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Endrin	6.1	U	6.1	1.7	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Endrin aldehyde	6.1	U	6.1	2.2	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Endrin ketone	6.1	U	6.1	1.3	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
gamma-BHC (Lindane)	6.1	U	6.1	3.5	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
gamma-Chlordane	6.1	U	6.1	1.8	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Heptachlor	6.1	U	6.1	0.93	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Heptachlor epoxide	6.1	U	6.1	2.9	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Methoxychlor	12	U	12	1.4	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1
Toxaphene	120	U	120	44	ug/Kg	☼	04/07/17 09:01	04/11/17 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	30		13 - 135	04/07/17 09:01	04/11/17 16:34	1
Tetrachloro-m-xylene	40		30 - 120	04/07/17 09:01	04/11/17 16:34	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA01

Date Collected: 04/05/17 11:05

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-1

Matrix: Solid

Percent Solids: 80.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	74	U	74	8.6	ug/Kg	☼	04/10/17 15:19	04/12/17 10:07	1
2,4-D	300	U	300	37	ug/Kg	☼	04/10/17 15:19	04/12/17 10:07	1
Silvex (2,4,5-TP)	74	U	74	7.4	ug/Kg	☼	04/10/17 15:19	04/12/17 10:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	80	p	19 - 120				04/10/17 15:19	04/12/17 10:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA02

Date Collected: 04/05/17 11:10

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-2

Matrix: Solid

Percent Solids: 81.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	73	U	73	8.5	ug/Kg	☼	04/10/17 15:19	04/12/17 10:29	1
2,4-D	290	U	290	37	ug/Kg	☼	04/10/17 15:19	04/12/17 10:29	1
Silvex (2,4,5-TP)	73	U	73	7.3	ug/Kg	☼	04/10/17 15:19	04/12/17 10:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	80	p	19 - 120				04/10/17 15:19	04/12/17 10:29	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA03

Date Collected: 04/05/17 11:15

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-3

Matrix: Solid

Percent Solids: 81.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	72	U	72	8.4	ug/Kg	☼	04/10/17 15:19	04/12/17 10:51	1
2,4-D	290	U	290	36	ug/Kg	☼	04/10/17 15:19	04/12/17 10:51	1
Silvex (2,4,5-TP)	72	U	72	7.2	ug/Kg	☼	04/10/17 15:19	04/12/17 10:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	80		19 - 120				04/10/17 15:19	04/12/17 10:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA04

Date Collected: 04/05/17 11:16

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-4

Matrix: Solid

Percent Solids: 80.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	74	U	74	8.6	ug/Kg	☼	04/10/17 15:19	04/12/17 11:13	1
2,4-D	290	U	290	37	ug/Kg	☼	04/10/17 15:19	04/12/17 11:13	1
Silvex (2,4,5-TP)	74	U	74	7.4	ug/Kg	☼	04/10/17 15:19	04/12/17 11:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	77	p	19 - 120				04/10/17 15:19	04/12/17 11:13	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA05

Date Collected: 04/05/17 11:25

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-5

Matrix: Solid

Percent Solids: 81.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	74	U	74	8.6	ug/Kg	☼	04/10/17 15:19	04/12/17 11:34	1
2,4-D	290	U	290	37	ug/Kg	☼	04/10/17 15:19	04/12/17 11:34	1
Silvex (2,4,5-TP)	74	U	74	7.4	ug/Kg	☼	04/10/17 15:19	04/12/17 11:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82	p	19 - 120				04/10/17 15:19	04/12/17 11:34	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA06

Date Collected: 04/05/17 11:30

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-6

Matrix: Solid

Percent Solids: 82.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	72	U	72	8.4	ug/Kg	☼	04/10/17 15:19	04/12/17 12:18	1
2,4-D	290	U	290	36	ug/Kg	☼	04/10/17 15:19	04/12/17 12:18	1
Silvex (2,4,5-TP)	72	U	72	7.2	ug/Kg	☼	04/10/17 15:19	04/12/17 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	78	p	19 - 120				04/10/17 15:19	04/12/17 12:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA07

Date Collected: 04/05/17 11:40

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-7

Matrix: Solid

Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	70	U F1	70	8.2	ug/Kg	☼	04/10/17 15:19	04/12/17 12:40	1
2,4-D	280	U F1	280	35	ug/Kg	☼	04/10/17 15:19	04/12/17 12:40	1
Silvex (2,4,5-TP)	70	U	70	7.0	ug/Kg	☼	04/10/17 15:19	04/12/17 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	80	p	19 - 120				04/10/17 15:19	04/12/17 12:40	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA08

Date Collected: 04/05/17 11:45

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-8

Matrix: Solid

Percent Solids: 81.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	73	U	73	8.5	ug/Kg	☼	04/10/17 15:19	04/12/17 13:45	1
2,4-D	290	U	290	37	ug/Kg	☼	04/10/17 15:19	04/12/17 13:45	1
Silvex (2,4,5-TP)	73	U	73	7.3	ug/Kg	☼	04/10/17 15:19	04/12/17 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82	p	19 - 120				04/10/17 15:19	04/12/17 13:45	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA09

Date Collected: 04/05/17 11:50

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-9

Matrix: Solid

Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	71	U	71	8.3	ug/Kg	☼	04/10/17 15:19	04/12/17 14:07	1
2,4-D	290	U	290	36	ug/Kg	☼	04/10/17 15:19	04/12/17 14:07	1
Silvex (2,4,5-TP)	71	U	71	7.1	ug/Kg	☼	04/10/17 15:19	04/12/17 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	54	p	19 - 120				04/10/17 15:19	04/12/17 14:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Client Sample ID: S-7878-040517-SSH-HA10

Date Collected: 04/05/17 11:55

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-10

Matrix: Solid

Percent Solids: 82.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	73	U	73	8.5	ug/Kg	☼	04/10/17 15:19	04/12/17 14:29	1
2,4-D	290	U	290	36	ug/Kg	☼	04/10/17 15:19	04/12/17 14:29	1
Silvex (2,4,5-TP)	73	U	73	7.3	ug/Kg	☼	04/10/17 15:19	04/12/17 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	79	p	19 - 120				04/10/17 15:19	04/12/17 14:29	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA01

Date Collected: 04/05/17 11:05

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-1

Matrix: Solid

Percent Solids: 80.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.4		1.1	0.030	mg/Kg	☼	04/10/17 11:10	04/11/17 16:32	2
Lead	11		0.23	0.052	mg/Kg	☼	04/10/17 11:10	04/11/17 16:32	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA02

Date Collected: 04/05/17 11:10

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-2

Matrix: Solid

Percent Solids: 81.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.93	0.024	mg/Kg	☼	04/10/17 11:10	04/11/17 16:36	2
Lead	11		0.19	0.042	mg/Kg	☼	04/10/17 11:10	04/11/17 16:36	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA03

Date Collected: 04/05/17 11:15

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-3

Matrix: Solid

Percent Solids: 81.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		1.2	0.030	mg/Kg	☼	04/10/17 11:10	04/11/17 16:41	2
Lead	11		0.23	0.052	mg/Kg	☼	04/10/17 11:10	04/11/17 16:41	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA04

Date Collected: 04/05/17 11:16

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-4

Matrix: Solid

Percent Solids: 80.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		0.91	0.024	mg/Kg	☼	04/10/17 11:10	04/11/17 16:53	2
Lead	11		0.18	0.041	mg/Kg	☼	04/10/17 11:10	04/11/17 16:53	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA05

Date Collected: 04/05/17 11:25

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-5

Matrix: Solid

Percent Solids: 81.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		1.2	0.031	mg/Kg	☼	04/10/17 11:10	04/11/17 16:57	2
Lead	12		0.24	0.053	mg/Kg	☼	04/10/17 11:10	04/11/17 16:57	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA06

Date Collected: 04/05/17 11:30

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-6

Matrix: Solid

Percent Solids: 82.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		1.1	0.028	mg/Kg	☼	04/10/17 11:10	04/11/17 17:01	2
Lead	12		0.21	0.048	mg/Kg	☼	04/10/17 11:10	04/11/17 17:01	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA07

Date Collected: 04/05/17 11:40

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-7

Matrix: Solid

Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.1	0.029	mg/Kg	☼	04/10/17 11:10	04/11/17 16:12	2
Lead	7.9		0.22	0.050	mg/Kg	☼	04/10/17 11:10	04/11/17 16:12	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA08

Date Collected: 04/05/17 11:45

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-8

Matrix: Solid

Percent Solids: 81.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		1.1	0.028	mg/Kg	☼	04/10/17 11:10	04/11/17 17:06	2
Lead	11		0.21	0.048	mg/Kg	☼	04/10/17 11:10	04/11/17 17:06	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA09

Date Collected: 04/05/17 11:50

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-9

Matrix: Solid

Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		0.88	0.023	mg/Kg	☼	04/10/17 11:10	04/11/17 17:10	2
Lead	9.7		0.18	0.040	mg/Kg	☼	04/10/17 11:10	04/11/17 17:10	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-040517-SSH-HA10

Date Collected: 04/05/17 11:55

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-10

Matrix: Solid

Percent Solids: 82.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		0.89	0.023	mg/Kg	☼	04/10/17 11:10	04/11/17 17:14	2
Lead	9.0		0.18	0.040	mg/Kg	☼	04/10/17 11:10	04/11/17 17:14	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA01

Date Collected: 04/05/17 11:05

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-1

Matrix: Solid

Percent Solids: 80.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.6		0.1	0.1	%			04/06/17 18:16	1
Percent Moisture	19.4		0.1	0.1	%			04/06/17 18:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA02

Date Collected: 04/05/17 11:10

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-2

Matrix: Solid

Percent Solids: 81.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.4		0.1	0.1	%			04/06/17 18:16	1
Percent Moisture	18.6		0.1	0.1	%			04/06/17 18:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA03

Date Collected: 04/05/17 11:15

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-3

Matrix: Solid

Percent Solids: 81.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.3		0.1	0.1	%			04/06/17 18:16	1
Percent Moisture	18.7		0.1	0.1	%			04/06/17 18:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA04

Date Collected: 04/05/17 11:16

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-4

Matrix: Solid

Percent Solids: 80.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.5		0.1	0.1	%			04/06/17 18:16	1
Percent Moisture	19.5		0.1	0.1	%			04/06/17 18:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA05

Date Collected: 04/05/17 11:25

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-5

Matrix: Solid

Percent Solids: 81.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.0		0.1	0.1	%			04/06/17 18:16	1
Percent Moisture	19.0		0.1	0.1	%			04/06/17 18:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA06

Date Collected: 04/05/17 11:30

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-6

Matrix: Solid

Percent Solids: 82.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.4		0.1	0.1	%			04/06/17 18:16	1
Percent Moisture	17.6		0.1	0.1	%			04/06/17 18:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA07

Date Collected: 04/05/17 11:40

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-7

Matrix: Solid

Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.4		0.1	0.1	%			04/06/17 18:16	1
Percent Moisture	14.6		0.1	0.1	%			04/06/17 18:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA08

Date Collected: 04/05/17 11:45

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-8

Matrix: Solid

Percent Solids: 81.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.1		0.1	0.1	%			04/06/17 18:21	1
Percent Moisture	18.9		0.1	0.1	%			04/06/17 18:21	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA09

Date Collected: 04/05/17 11:50

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-9

Matrix: Solid

Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.5		0.1	0.1	%			04/06/17 18:21	1
Percent Moisture	17.5		0.1	0.1	%			04/06/17 18:21	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

General Chemistry

Client Sample ID: S-7878-040517-SSH-HA10

Date Collected: 04/05/17 11:55

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-10

Matrix: Solid

Percent Solids: 82.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.0		0.1	0.1	%			04/06/17 18:21	1
Percent Moisture	18.0		0.1	0.1	%			04/06/17 18:21	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

GC/MS Semi VOA

Prep Batch: 351162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-77758-1	S-7878-040517-SSH-HA01	Total/NA	Solid	3550C	
240-77758-2	S-7878-040517-SSH-HA02	Total/NA	Solid	3550C	
240-77758-3	S-7878-040517-SSH-HA03	Total/NA	Solid	3550C	
240-77758-4	S-7878-040517-SSH-HA04	Total/NA	Solid	3550C	
240-77758-5	S-7878-040517-SSH-HA05	Total/NA	Solid	3550C	
240-77758-6	S-7878-040517-SSH-HA06	Total/NA	Solid	3550C	
240-77758-7	S-7878-040517-SSH-HA07	Total/NA	Solid	3550C	
240-77758-8	S-7878-040517-SSH-HA08	Total/NA	Solid	3550C	
240-77758-9	S-7878-040517-SSH-HA09	Total/NA	Solid	3550C	
240-77758-10	S-7878-040517-SSH-HA10	Total/NA	Solid	3550C	
MB 480-351162/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-351162/2-A	Lab Control Sample	Total/NA	Solid	3550C	
240-77758-7 MS	S-7878-040517-SSH-HA07	Total/NA	Solid	3550C	
240-77758-7 MSD	S-7878-040517-SSH-HA07	Total/NA	Solid	3550C	

Analysis Batch: 351269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-77758-1	S-7878-040517-SSH-HA01	Total/NA	Solid	8270D	351162
240-77758-2	S-7878-040517-SSH-HA02	Total/NA	Solid	8270D	351162
240-77758-3	S-7878-040517-SSH-HA03	Total/NA	Solid	8270D	351162
240-77758-4	S-7878-040517-SSH-HA04	Total/NA	Solid	8270D	351162
240-77758-5	S-7878-040517-SSH-HA05	Total/NA	Solid	8270D	351162
240-77758-6	S-7878-040517-SSH-HA06	Total/NA	Solid	8270D	351162
240-77758-7	S-7878-040517-SSH-HA07	Total/NA	Solid	8270D	351162
240-77758-8	S-7878-040517-SSH-HA08	Total/NA	Solid	8270D	351162
240-77758-9	S-7878-040517-SSH-HA09	Total/NA	Solid	8270D	351162
240-77758-10	S-7878-040517-SSH-HA10	Total/NA	Solid	8270D	351162
MB 480-351162/1-A	Method Blank	Total/NA	Solid	8270D	351162
LCS 480-351162/2-A	Lab Control Sample	Total/NA	Solid	8270D	351162
240-77758-7 MS	S-7878-040517-SSH-HA07	Total/NA	Solid	8270D	351162
240-77758-7 MSD	S-7878-040517-SSH-HA07	Total/NA	Solid	8270D	351162

GC Semi VOA

Prep Batch: 273757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-77758-1	S-7878-040517-SSH-HA01	Total/NA	Solid	3540C	
240-77758-2	S-7878-040517-SSH-HA02	Total/NA	Solid	3540C	
240-77758-3	S-7878-040517-SSH-HA03	Total/NA	Solid	3540C	
240-77758-4	S-7878-040517-SSH-HA04	Total/NA	Solid	3540C	
240-77758-5	S-7878-040517-SSH-HA05	Total/NA	Solid	3540C	
240-77758-6	S-7878-040517-SSH-HA06	Total/NA	Solid	3540C	
240-77758-7	S-7878-040517-SSH-HA07	Total/NA	Solid	3540C	
240-77758-8	S-7878-040517-SSH-HA08	Total/NA	Solid	3540C	
240-77758-9	S-7878-040517-SSH-HA09	Total/NA	Solid	3540C	
240-77758-10	S-7878-040517-SSH-HA10	Total/NA	Solid	3540C	
MB 240-273757/13-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-273757/14-A	Lab Control Sample	Total/NA	Solid	3540C	
240-77758-7 MS	S-7878-040517-SSH-HA07	Total/NA	Solid	3540C	
240-77758-7 MSD	S-7878-040517-SSH-HA07	Total/NA	Solid	3540C	

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

GC Semi VOA (Continued)

Prep Batch: 274070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-77758-1	S-7878-040517-SSH-HA01	Total/NA	Solid	3546	
240-77758-2	S-7878-040517-SSH-HA02	Total/NA	Solid	3546	
240-77758-3	S-7878-040517-SSH-HA03	Total/NA	Solid	3546	
240-77758-4	S-7878-040517-SSH-HA04	Total/NA	Solid	3546	
240-77758-5	S-7878-040517-SSH-HA05	Total/NA	Solid	3546	
240-77758-6	S-7878-040517-SSH-HA06	Total/NA	Solid	3546	
240-77758-7	S-7878-040517-SSH-HA07	Total/NA	Solid	3546	
240-77758-8	S-7878-040517-SSH-HA08	Total/NA	Solid	3546	
240-77758-9	S-7878-040517-SSH-HA09	Total/NA	Solid	3546	
240-77758-10	S-7878-040517-SSH-HA10	Total/NA	Solid	3546	
MB 240-274070/13-A	Method Blank	Total/NA	Solid	3546	
LCS 240-274070/14-A	Lab Control Sample	Total/NA	Solid	3546	
240-77758-7 MS	S-7878-040517-SSH-HA07	Total/NA	Solid	3546	
240-77758-7 MSD	S-7878-040517-SSH-HA07	Total/NA	Solid	3546	

Analysis Batch: 274120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-77758-1	S-7878-040517-SSH-HA01	Total/NA	Solid	8081A	273757
240-77758-2	S-7878-040517-SSH-HA02	Total/NA	Solid	8081A	273757
240-77758-3	S-7878-040517-SSH-HA03	Total/NA	Solid	8081A	273757
240-77758-4	S-7878-040517-SSH-HA04	Total/NA	Solid	8081A	273757
240-77758-5	S-7878-040517-SSH-HA05	Total/NA	Solid	8081A	273757
240-77758-6	S-7878-040517-SSH-HA06	Total/NA	Solid	8081A	273757
240-77758-7	S-7878-040517-SSH-HA07	Total/NA	Solid	8081A	273757
240-77758-8	S-7878-040517-SSH-HA08	Total/NA	Solid	8081A	273757
240-77758-9	S-7878-040517-SSH-HA09	Total/NA	Solid	8081A	273757
240-77758-10	S-7878-040517-SSH-HA10	Total/NA	Solid	8081A	273757
MB 240-273757/13-A	Method Blank	Total/NA	Solid	8081A	273757
LCS 240-273757/14-A	Lab Control Sample	Total/NA	Solid	8081A	273757
240-77758-7 MS	S-7878-040517-SSH-HA07	Total/NA	Solid	8081A	273757
240-77758-7 MSD	S-7878-040517-SSH-HA07	Total/NA	Solid	8081A	273757

Analysis Batch: 274329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-77758-1	S-7878-040517-SSH-HA01	Total/NA	Solid	8151A	274070
240-77758-2	S-7878-040517-SSH-HA02	Total/NA	Solid	8151A	274070
240-77758-3	S-7878-040517-SSH-HA03	Total/NA	Solid	8151A	274070
240-77758-4	S-7878-040517-SSH-HA04	Total/NA	Solid	8151A	274070
240-77758-5	S-7878-040517-SSH-HA05	Total/NA	Solid	8151A	274070
240-77758-6	S-7878-040517-SSH-HA06	Total/NA	Solid	8151A	274070
240-77758-7	S-7878-040517-SSH-HA07	Total/NA	Solid	8151A	274070
240-77758-8	S-7878-040517-SSH-HA08	Total/NA	Solid	8151A	274070
240-77758-9	S-7878-040517-SSH-HA09	Total/NA	Solid	8151A	274070
240-77758-10	S-7878-040517-SSH-HA10	Total/NA	Solid	8151A	274070
MB 240-274070/13-A	Method Blank	Total/NA	Solid	8151A	274070
LCS 240-274070/14-A	Lab Control Sample	Total/NA	Solid	8151A	274070
240-77758-7 MS	S-7878-040517-SSH-HA07	Total/NA	Solid	8151A	274070
240-77758-7 MSD	S-7878-040517-SSH-HA07	Total/NA	Solid	8151A	274070

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Metals

Prep Batch: 274009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-77758-1	S-7878-040517-SSH-HA01	Total/NA	Solid	3050B	
240-77758-2	S-7878-040517-SSH-HA02	Total/NA	Solid	3050B	
240-77758-3	S-7878-040517-SSH-HA03	Total/NA	Solid	3050B	
240-77758-4	S-7878-040517-SSH-HA04	Total/NA	Solid	3050B	
240-77758-5	S-7878-040517-SSH-HA05	Total/NA	Solid	3050B	
240-77758-6	S-7878-040517-SSH-HA06	Total/NA	Solid	3050B	
240-77758-7	S-7878-040517-SSH-HA07	Total/NA	Solid	3050B	
240-77758-8	S-7878-040517-SSH-HA08	Total/NA	Solid	3050B	
240-77758-9	S-7878-040517-SSH-HA09	Total/NA	Solid	3050B	
240-77758-10	S-7878-040517-SSH-HA10	Total/NA	Solid	3050B	
MB 240-274009/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 240-274009/3-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
240-77758-7 MS	S-7878-040517-SSH-HA07	Total/NA	Solid	3050B	
240-77758-7 MSD	S-7878-040517-SSH-HA07	Total/NA	Solid	3050B	

Analysis Batch: 274388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-77758-1	S-7878-040517-SSH-HA01	Total/NA	Solid	6020	274009
240-77758-2	S-7878-040517-SSH-HA02	Total/NA	Solid	6020	274009
240-77758-3	S-7878-040517-SSH-HA03	Total/NA	Solid	6020	274009
240-77758-4	S-7878-040517-SSH-HA04	Total/NA	Solid	6020	274009
240-77758-5	S-7878-040517-SSH-HA05	Total/NA	Solid	6020	274009
240-77758-6	S-7878-040517-SSH-HA06	Total/NA	Solid	6020	274009
240-77758-7	S-7878-040517-SSH-HA07	Total/NA	Solid	6020	274009
240-77758-8	S-7878-040517-SSH-HA08	Total/NA	Solid	6020	274009
240-77758-9	S-7878-040517-SSH-HA09	Total/NA	Solid	6020	274009
240-77758-10	S-7878-040517-SSH-HA10	Total/NA	Solid	6020	274009
MB 240-274009/1-A ^2	Method Blank	Total/NA	Solid	6020	274009
LCS 240-274009/3-A ^2	Lab Control Sample	Total/NA	Solid	6020	274009
240-77758-7 MS	S-7878-040517-SSH-HA07	Total/NA	Solid	6020	274009
240-77758-7 MSD	S-7878-040517-SSH-HA07	Total/NA	Solid	6020	274009

General Chemistry

Analysis Batch: 273600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-77758-1	S-7878-040517-SSH-HA01	Total/NA	Solid	Moisture	
240-77758-2	S-7878-040517-SSH-HA02	Total/NA	Solid	Moisture	
240-77758-3	S-7878-040517-SSH-HA03	Total/NA	Solid	Moisture	
240-77758-4	S-7878-040517-SSH-HA04	Total/NA	Solid	Moisture	
240-77758-5	S-7878-040517-SSH-HA05	Total/NA	Solid	Moisture	
240-77758-6	S-7878-040517-SSH-HA06	Total/NA	Solid	Moisture	
240-77758-7	S-7878-040517-SSH-HA07	Total/NA	Solid	Moisture	
240-77758-8	S-7878-040517-SSH-HA08	Total/NA	Solid	Moisture	
240-77758-9	S-7878-040517-SSH-HA09	Total/NA	Solid	Moisture	
240-77758-10	S-7878-040517-SSH-HA10	Total/NA	Solid	Moisture	
240-77758-2 DU	S-7878-040517-SSH-HA02	Total/NA	Solid	Moisture	
240-77758-7 DU	S-7878-040517-SSH-HA07	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-351162/1-A

Matrix: Solid

Analysis Batch: 351269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 351162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	320	U	320	83	ug/Kg		04/10/17 14:12	04/11/17 10:15	1
Atrazine	170	U	170	58	ug/Kg		04/10/17 14:12	04/11/17 10:15	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		54 - 120				04/10/17 14:12	04/11/17 10:15	1
2-Fluorobiphenyl	76		60 - 120				04/10/17 14:12	04/11/17 10:15	1
2-Fluorophenol (Surr)	70		52 - 120				04/10/17 14:12	04/11/17 10:15	1
Nitrobenzene-d5 (Surr)	69		53 - 120				04/10/17 14:12	04/11/17 10:15	1
p-Terphenyl-d14 (Surr)	87		65 - 121				04/10/17 14:12	04/11/17 10:15	1
Phenol-d5 (Surr)	73		54 - 120				04/10/17 14:12	04/11/17 10:15	1

Lab Sample ID: LCS 480-351162/2-A

Matrix: Solid

Analysis Batch: 351269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 351162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Atrazine	3310	2740		ug/Kg		83	60 - 127
Surrogate	%Recovery	LCS Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	79		54 - 120				
2-Fluorobiphenyl	73		60 - 120				
2-Fluorophenol (Surr)	66		52 - 120				
Nitrobenzene-d5 (Surr)	68		53 - 120				
p-Terphenyl-d14 (Surr)	81		65 - 121				
Phenol-d5 (Surr)	70		54 - 120				

Lab Sample ID: 240-77758-7 MS

Matrix: Solid

Analysis Batch: 351269

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Prep Batch: 351162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Atrazine	190	U	3800	3110		ug/Kg	☼	82	60 - 150
Surrogate	%Recovery	MS Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	80		54 - 120						
2-Fluorobiphenyl	72		60 - 120						
2-Fluorophenol (Surr)	62		52 - 120						
Nitrobenzene-d5 (Surr)	66		53 - 120						
p-Terphenyl-d14 (Surr)	81		65 - 121						
Phenol-d5 (Surr)	67		54 - 120						

Lab Sample ID: 240-77758-7 MSD

Matrix: Solid

Analysis Batch: 351269

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Prep Batch: 351162

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Atrazine	190	U	3880	3290		ug/Kg	☼	85	60 - 150	5	20

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-77758-7 MSD

Matrix: Solid

Analysis Batch: 351269

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Prep Batch: 351162

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		54 - 120
2-Fluorobiphenyl	78		60 - 120
2-Fluorophenol (Surr)	66		52 - 120
Nitrobenzene-d5 (Surr)	70		53 - 120
p-Terphenyl-d14 (Surr)	84		65 - 121
Phenol-d5 (Surr)	72		54 - 120

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-273757/13-A

Matrix: Solid

Analysis Batch: 274120

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 273757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	5.1	U	5.1	3.3	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
4,4'-DDE	5.1	U	5.1	1.2	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
4,4'-DDT	5.1	U	5.1	1.4	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Aldrin	5.1	U	5.1	2.4	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
alpha-BHC	5.1	U	5.1	1.6	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
alpha-Chlordane	5.1	U	5.1	3.8	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
beta-BHC	5.1	U	5.1	3.9	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
delta-BHC	5.1	U	5.1	1.3	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Dieldrin	5.1	U	5.1	0.90	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Endosulfan I	5.1	U	5.1	1.3	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Endosulfan II	5.1	U	5.1	1.8	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Endosulfan sulfate	5.1	U	5.1	1.2	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Endrin	5.1	U	5.1	1.4	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Endrin aldehyde	5.1	U	5.1	1.8	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Endrin ketone	5.1	U	5.1	1.1	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
gamma-BHC (Lindane)	5.1	U	5.1	2.9	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
gamma-Chlordane	5.1	U	5.1	1.5	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Heptachlor	5.1	U	5.1	0.78	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Heptachlor epoxide	5.1	U	5.1	2.4	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Methoxychlor	9.9	U	9.9	1.2	ug/Kg		04/07/17 09:01	04/11/17 11:11	1
Toxaphene	100	U	100	37	ug/Kg		04/07/17 09:01	04/11/17 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55		13 - 135	04/07/17 09:01	04/11/17 11:11	1
Tetrachloro-m-xylene	66		30 - 120	04/07/17 09:01	04/11/17 11:11	1

Lab Sample ID: LCS 240-273757/14-A

Matrix: Solid

Analysis Batch: 274120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 273757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	100	50.4		ug/Kg		50	48 - 120
4,4'-DDE	100	52.4		ug/Kg		52	46 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-273757/14-A

Matrix: Solid

Analysis Batch: 274120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 273757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDT	100	49.4		ug/Kg		49	48 - 120
Aldrin	100	52.5		ug/Kg		53	36 - 120
alpha-BHC	100	55.4		ug/Kg		55	48 - 120
alpha-Chlordane	100	55.4		ug/Kg		55	44 - 120
beta-BHC	100	52.6		ug/Kg		53	45 - 120
delta-BHC	100	42.3		ug/Kg		42	33 - 120
Dieldrin	100	53.6		ug/Kg		54	47 - 120
Endosulfan I	100	35.3		ug/Kg		35	28 - 120
Endosulfan II	100	41.1		ug/Kg		41	39 - 120
Endosulfan sulfate	100	46.6		ug/Kg		47	46 - 120
Endrin	100	51.7		ug/Kg		52	28 - 136
Endrin aldehyde	100	49.0		ug/Kg		49	38 - 120
Endrin ketone	100	49.6		ug/Kg		50	44 - 120
gamma-BHC (Lindane)	100	54.0		ug/Kg		54	39 - 120
gamma-Chlordane	100	52.8		ug/Kg		53	46 - 120
Heptachlor	100	55.5		ug/Kg		56	48 - 120
Heptachlor epoxide	100	52.8		ug/Kg		53	51 - 120
Methoxychlor	100	45.0		ug/Kg		45	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	46		13 - 135
Tetrachloro-m-xylene	59		30 - 120

Lab Sample ID: 240-77758-7 MS

Matrix: Solid

Analysis Batch: 274120

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Prep Batch: 273757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.9	U	117	52.0		ug/Kg	☼	44	27 - 120
4,4'-DDE	5.9	U	117	56.7		ug/Kg	☼	48	25 - 120
4,4'-DDT	5.9	U	117	51.7		ug/Kg	☼	44	19 - 125
Aldrin	5.9	U	117	52.0		ug/Kg	☼	44	15 - 120
alpha-BHC	5.9	U	117	58.3		ug/Kg	☼	50	30 - 120
alpha-Chlordane	5.9	U	117	51.5		ug/Kg	☼	44	28 - 120
beta-BHC	5.9	U	117	48.1		ug/Kg	☼	41	20 - 120
delta-BHC	5.9	U	117	44.1		ug/Kg	☼	38	20 - 120
Dieldrin	5.9	U	117	55.3		ug/Kg	☼	47	29 - 120
Endosulfan I	5.9	U	117	36.1		ug/Kg	☼	31	10 - 120
Endosulfan II	5.9	U	117	42.1		ug/Kg	☼	36	21 - 120
Endosulfan sulfate	5.9	U	117	47.1		ug/Kg	☼	40	27 - 120
Endrin	5.9	U	117	57.7		ug/Kg	☼	49	26 - 129
Endrin aldehyde	5.9	U	117	48.2		ug/Kg	☼	41	18 - 120
Endrin ketone	5.9	U	117	49.5		ug/Kg	☼	42	28 - 120
gamma-BHC (Lindane)	5.9	U	117	55.6		ug/Kg	☼	47	27 - 120
gamma-Chlordane	5.9	U	117	57.9		ug/Kg	☼	49	29 - 120
Heptachlor	5.9	U	117	56.0		ug/Kg	☼	48	35 - 120
Heptachlor epoxide	5.9	U	117	55.7		ug/Kg	☼	48	32 - 120
Methoxychlor	12	U	117	47.9		ug/Kg	☼	41	26 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	40		13 - 135
Tetrachloro-m-xylene	53		30 - 120

Lab Sample ID: 240-77758-7 MSD

Matrix: Solid

Analysis Batch: 274120

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Prep Batch: 273757

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	5.9	U	116	57.0		ug/Kg	☼	49	27 - 120	9	40
4,4'-DDE	5.9	U	116	62.3		ug/Kg	☼	54	25 - 120	10	40
4,4'-DDT	5.9	U	116	57.7		ug/Kg	☼	50	19 - 125	11	40
Aldrin	5.9	U	116	58.1		ug/Kg	☼	50	15 - 120	11	40
alpha-BHC	5.9	U	116	65.7		ug/Kg	☼	57	30 - 120	12	40
alpha-Chlordane	5.9	U	116	56.4		ug/Kg	☼	49	28 - 120	9	40
beta-BHC	5.9	U	116	54.9		ug/Kg	☼	47	20 - 120	13	40
delta-BHC	5.9	U	116	52.0		ug/Kg	☼	45	20 - 120	16	40
Dieldrin	5.9	U	116	61.9		ug/Kg	☼	53	29 - 120	11	40
Endosulfan I	5.9	U	116	41.0		ug/Kg	☼	35	10 - 120	12	40
Endosulfan II	5.9	U	116	47.1		ug/Kg	☼	41	21 - 120	11	40
Endosulfan sulfate	5.9	U	116	53.8		ug/Kg	☼	46	27 - 120	13	40
Endrin	5.9	U	116	64.2		ug/Kg	☼	55	26 - 129	11	40
Endrin aldehyde	5.9	U	116	53.7		ug/Kg	☼	46	18 - 120	11	40
Endrin ketone	5.9	U	116	56.3		ug/Kg	☼	48	28 - 120	13	40
gamma-BHC (Lindane)	5.9	U	116	63.4		ug/Kg	☼	55	27 - 120	13	40
gamma-Chlordane	5.9	U	116	61.5		ug/Kg	☼	53	29 - 120	6	40
Heptachlor	5.9	U	116	62.6		ug/Kg	☼	54	35 - 120	11	40
Heptachlor epoxide	5.9	U	116	61.0		ug/Kg	☼	53	32 - 120	9	40
Methoxychlor	12	U	116	53.7		ug/Kg	☼	46	26 - 120	11	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	44		13 - 135
Tetrachloro-m-xylene	48		30 - 120

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 240-274070/13-A

Matrix: Solid

Analysis Batch: 274329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 274070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	60	U	60	7.0	ug/Kg		04/10/17 15:19	04/12/17 09:24	1
2,4-D	240	U	240	30	ug/Kg		04/10/17 15:19	04/12/17 09:24	1
Silvex (2,4,5-TP)	60	U	60	6.0	ug/Kg		04/10/17 15:19	04/12/17 09:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	94	p	19 - 120	04/10/17 15:19	04/12/17 09:24	1

Lab Sample ID: LCS 240-274070/14-A

Matrix: Solid

Analysis Batch: 274329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 274070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	250	279		ug/Kg		112	51 - 134

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

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

Lab Sample ID: LCS 240-274070/14-A

Matrix: Solid

Analysis Batch: 274329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 274070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	1000	1060		ug/Kg		106	55 - 120
Silvex (2,4,5-TP)	250	252		ug/Kg		101	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	83	p	19 - 120

Lab Sample ID: 240-77758-7 MS

Matrix: Solid

Analysis Batch: 274329

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Prep Batch: 274070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	70	U F1	290	365	F1	ug/Kg	☼	126	30 - 120
2,4-D	280	U F1	1160	1480	F1	ug/Kg	☼	128	26 - 120
Silvex (2,4,5-TP)	70	U	290	345		ug/Kg	☼	119	32 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	91	p	19 - 120

Lab Sample ID: 240-77758-7 MSD

Matrix: Solid

Analysis Batch: 274329

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Prep Batch: 274070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
2,4,5-T	70	U F1	288	326		ug/Kg	☼	113	30 - 120	11	40
2,4-D	280	U F1	1150	1320		ug/Kg	☼	115	26 - 120	11	40
Silvex (2,4,5-TP)	70	U	288	299		ug/Kg	☼	104	32 - 120	14	37

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	85	p	19 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-274009/1-A ^2

Matrix: Solid

Analysis Batch: 274388

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 274009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.0	U	1.0	0.026	mg/Kg		04/10/17 11:10	04/11/17 16:03	2
Lead	0.20	U	0.20	0.045	mg/Kg		04/10/17 11:10	04/11/17 16:03	2

Lab Sample ID: LCS 240-274009/3-A ^2

Matrix: Solid

Analysis Batch: 274388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 274009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	87.4		mg/Kg		87	80 - 120
Lead	100	102		mg/Kg		102	80 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-77758-7 MS

Matrix: Solid

Analysis Batch: 274388

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Prep Batch: 274009

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.9		92.9	85.2		mg/Kg	☼	89	75 - 125
Lead	7.9		92.9	103		mg/Kg	☼	103	75 - 125

Lab Sample ID: 240-77758-7 MSD

Matrix: Solid

Analysis Batch: 274388

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Prep Batch: 274009

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	2.9		92.9	85.0		mg/Kg	☼	88	75 - 125	0	20
Lead	7.9		92.9	102		mg/Kg	☼	101	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 240-77758-2 DU

Matrix: Solid

Analysis Batch: 273600

Client Sample ID: S-7878-040517-SSH-HA02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	81.4		82.9		%		2	20
Percent Moisture	18.6		17.1		%		9	20

Lab Sample ID: 240-77758-7 DU

Matrix: Solid

Analysis Batch: 273600

Client Sample ID: S-7878-040517-SSH-HA07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	85.4		85.2		%		0.2	20
Percent Moisture	14.6		14.8		%		1	20

TestAmerica Canton

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	TPH (65-121)	PHL (54-120)
240-77758-1	S-7878-040517-SSH-HA01	78	78	64	69	86	69
240-77758-2	S-7878-040517-SSH-HA02	71	75	66	69	81	70
240-77758-3	S-7878-040517-SSH-HA03	73	76	71	71	85	75
240-77758-4	S-7878-040517-SSH-HA04	77	78	70	73	86	75
240-77758-5	S-7878-040517-SSH-HA05	78	79	73	73	89	77
240-77758-6	S-7878-040517-SSH-HA06	68	77	71	68	83	74
240-77758-7	S-7878-040517-SSH-HA07	55	62	54	55	75	58
240-77758-7 MS	S-7878-040517-SSH-HA07	80	72	62	66	81	67
240-77758-7 MSD	S-7878-040517-SSH-HA07	84	78	66	70	84	72
240-77758-8	S-7878-040517-SSH-HA08	75	80	73	75	88	77
240-77758-9	S-7878-040517-SSH-HA09	75	72	61	64	81	68
240-77758-10	S-7878-040517-SSH-HA10	73	74	66	65	83	71
LCS 480-351162/2-A	Lab Control Sample	79	73	66	68	81	70
MB 480-351162/1-A	Method Blank	71	76	70	69	87	73

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCB1 (13-135)	DCB2 (13-135)	TCX1 (30-120)	TCX2 (30-120)
240-77758-1	S-7878-040517-SSH-HA01	53	51	75	59
240-77758-2	S-7878-040517-SSH-HA02	44	45	68	48
240-77758-3	S-7878-040517-SSH-HA03	37	43	50	44
240-77758-4	S-7878-040517-SSH-HA04	46	49	56	51
240-77758-5	S-7878-040517-SSH-HA05	41	44	56	44
240-77758-6	S-7878-040517-SSH-HA06	38	41	45	41
240-77758-7	S-7878-040517-SSH-HA07	42	41	52	47
240-77758-7 MS	S-7878-040517-SSH-HA07	40	47	53	50
240-77758-7 MSD	S-7878-040517-SSH-HA07	44	50	48	55
240-77758-8	S-7878-040517-SSH-HA08	48	55	56	51
240-77758-9	S-7878-040517-SSH-HA09	35	38	47	41
240-77758-10	S-7878-040517-SSH-HA10	30	32	40	35
LCS 240-273757/14-A	Lab Control Sample	46	51	59	56
MB 240-273757/13-A	Method Blank	55	61	66	64

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

TestAmerica Canton

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPA1 (19-120)	DCPA2 (19-120)
240-77758-1	S-7878-040517-SSH-HA01	80 p	207 X
240-77758-2	S-7878-040517-SSH-HA02	80 p	193 X
240-77758-3	S-7878-040517-SSH-HA03	80	120
240-77758-4	S-7878-040517-SSH-HA04	77 p	282 X
240-77758-5	S-7878-040517-SSH-HA05	82 p	212 X
240-77758-6	S-7878-040517-SSH-HA06	78 p	136 X
240-77758-7	S-7878-040517-SSH-HA07	80 p	247 X
240-77758-7 MS	S-7878-040517-SSH-HA07	91 p	214 X
240-77758-7 MSD	S-7878-040517-SSH-HA07	85 p	151 X
240-77758-8	S-7878-040517-SSH-HA08	82 p	132 X
240-77758-9	S-7878-040517-SSH-HA09	54 p	229 X
240-77758-10	S-7878-040517-SSH-HA10	79 p	121 X
LCS 240-274070/14-A	Lab Control Sample	83 p	245 X
MB 240-274070/13-A	Method Blank	94 p	154 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Client Sample ID: S-7878-040517-SSH-HA01

Date Collected: 04/05/17 11:05

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:16	JWW	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA01

Date Collected: 04/05/17 11:05

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-1

Matrix: Solid

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF
Total/NA	Analysis	8270D		1	351269	04/11/17 12:27	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 11:59	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 10:07	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 16:32	AS1	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA02

Date Collected: 04/05/17 11:10

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:16	JWW	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA02

Date Collected: 04/05/17 11:10

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-2

Matrix: Solid

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF
Total/NA	Analysis	8270D		1	351269	04/11/17 12:53	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 12:23	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 10:29	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 16:36	AS1	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Client Sample ID: S-7878-040517-SSH-HA03

Lab Sample ID: 240-77758-3

Date Collected: 04/05/17 11:15

Matrix: Solid

Date Received: 04/06/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:16	JWW	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA03

Lab Sample ID: 240-77758-3

Date Collected: 04/05/17 11:15

Matrix: Solid

Date Received: 04/06/17 09:15

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF
Total/NA	Analysis	8270D		1	351269	04/11/17 13:20	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 12:48	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 10:51	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 16:41	AS1	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA04

Lab Sample ID: 240-77758-4

Date Collected: 04/05/17 11:16

Matrix: Solid

Date Received: 04/06/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:16	JWW	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA04

Lab Sample ID: 240-77758-4

Date Collected: 04/05/17 11:16

Matrix: Solid

Date Received: 04/06/17 09:15

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF
Total/NA	Analysis	8270D		1	351269	04/11/17 13:46	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 13:13	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 11:13	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 16:53	AS1	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA05

Lab Sample ID: 240-77758-5

Date Collected: 04/05/17 11:25

Matrix: Solid

Date Received: 04/06/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:16	JWW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Client Sample ID: S-7878-040517-SSH-HA05

Date Collected: 04/05/17 11:25

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-5

Matrix: Solid

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF
Total/NA	Analysis	8270D		1	351269	04/11/17 14:12	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 13:38	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 11:34	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 16:57	AS1	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA06

Date Collected: 04/05/17 11:30

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:16	JWW	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA06

Date Collected: 04/05/17 11:30

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-6

Matrix: Solid

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF
Total/NA	Analysis	8270D		1	351269	04/11/17 14:39	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 14:03	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 12:18	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 17:01	AS1	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA07

Date Collected: 04/05/17 11:40

Date Received: 04/06/17 09:15

Lab Sample ID: 240-77758-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:16	JWW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Client Sample ID: S-7878-040517-SSH-HA07

Lab Sample ID: 240-77758-7

Date Collected: 04/05/17 11:40

Matrix: Solid

Date Received: 04/06/17 09:15

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF
Total/NA	Analysis	8270D		1	351269	04/11/17 12:01	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 14:29	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 12:40	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 16:12	AS1	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA08

Lab Sample ID: 240-77758-8

Date Collected: 04/05/17 11:45

Matrix: Solid

Date Received: 04/06/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:21	JWW	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA08

Lab Sample ID: 240-77758-8

Date Collected: 04/05/17 11:45

Matrix: Solid

Date Received: 04/06/17 09:15

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF
Total/NA	Analysis	8270D		1	351269	04/11/17 15:05	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 15:44	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 13:45	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 17:06	AS1	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA09

Lab Sample ID: 240-77758-9

Date Collected: 04/05/17 11:50

Matrix: Solid

Date Received: 04/06/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:21	JWW	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA09

Lab Sample ID: 240-77758-9

Date Collected: 04/05/17 11:50

Matrix: Solid

Date Received: 04/06/17 09:15

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Client Sample ID: S-7878-040517-SSH-HA09

Lab Sample ID: 240-77758-9

Date Collected: 04/05/17 11:50

Matrix: Solid

Date Received: 04/06/17 09:15

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	351269	04/11/17 15:31	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 16:09	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 14:07	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 17:10	AS1	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA10

Lab Sample ID: 240-77758-10

Date Collected: 04/05/17 11:55

Matrix: Solid

Date Received: 04/06/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	273600	04/06/17 18:21	JWW	TAL CAN

Client Sample ID: S-7878-040517-SSH-HA10

Lab Sample ID: 240-77758-10

Date Collected: 04/05/17 11:55

Matrix: Solid

Date Received: 04/06/17 09:15

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			351162	04/10/17 14:12	SMP	TAL BUF
Total/NA	Analysis	8270D		1	351269	04/11/17 15:58	LMW	TAL BUF
Total/NA	Prep	3540C			273757	04/07/17 09:01	JT	TAL CAN
Total/NA	Analysis	8081A		1	274120	04/11/17 16:34	BPM	TAL CAN
Total/NA	Prep	3546			274070	04/10/17 15:19	CS	TAL CAN
Total/NA	Analysis	8151A		1	274329	04/12/17 14:29	DEB	TAL CAN
Total/NA	Prep	3050B			274009	04/10/17 11:10	DEE	TAL CAN
Total/NA	Analysis	6020		2	274388	04/11/17 17:14	AS1	TAL CAN

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	04-30-17 *
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17 *
Illinois	NELAP	5	200004	07-31-17 *
Kansas	NELAP	7	E-10336	01-31-18
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (VW)	State Program	4	98016	12-31-17
Minnesota	NELAP	5	039-999-348	12-31-17
Minnesota (Petrofund)	State Program	1	3506	07-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-17 *
New Jersey	NELAP	2	OH001	06-30-17 *
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-18
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-17
Georgia	State Program	4	N/A	03-31-18
Illinois	NELAP	5	200003	09-30-17
Iowa	State Program	7	374	03-01-17 *
Kansas	NELAP	7	E-10187	01-31-18
Kentucky (DW)	State Program	4	90029	12-31-17
Kentucky (UST)	State Program	4	30	03-31-17 *
Kentucky (VW)	State Program	4	90029	12-31-17
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-18
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-17 *
Minnesota	NELAP	5	036-999-337	12-31-17
New Hampshire	NELAP Primary AB	1	2973	09-11-17
New Hampshire	NELAP Secondary AB	1	2337	11-17-17
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-18
North Dakota	State Program	8	R-176	03-31-17 *
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-77758-1

Laboratory: TestAmerica Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Pennsylvania	NELAP	3	68-00281	07-31-17
Rhode Island	State Program	1	LAO00328	12-30-17
Tennessee	State Program	4	TN02970	03-31-18
Texas	NELAP	6	T104704412-15-6	07-31-17
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-18
Wisconsin	State Program	5	998310390	08-31-17

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

1.8/C1.5
MICHIGAN
190

Chain of Custody Record

197512

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0719)

Client Contact		Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:		Project Manager: M. Tarkenton		Site Contact: J. Pardy		Date: 4/5/17		COC No: 197512	
Company Name: GHD		Tel/Fax: 519 884 0510		Analysis Turnaround Time		Lab Contact: D. Hendrix		Carrier: FedEx		COCs	
Address: 14496 W. Chelton Rd Suite 200		City/State/Zip: Plymouth, MI		CALENDAR DAYS ☒ WORKING DAYS		Perform MS / MSD (Y / N)		Filtered Sample (Y / N)		For Lab Use Only:	
Phone: 734 453 5123		Fax: 734 453 5123		TAT if different from Below		8081A Pst.		8081A Pst.		Walk-In Client:	
Project Name: Burt's Creek SMI		Site: 5500 7878-01		☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day		6030 (Mn) AS Pb		6030 (Mn) AS Pb		Lab Sampling:	
PO# Lab# 24006918						8081A Pst.		8081A Pst.		Job / SDG No.:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
S-7878-040517-SS4-HA01		4/5/17		1105		G		SO		2	
HA02				1110		G		SO		2	
HA03				1115		G		SO		2	
HA04				1116		G		SO		2	
HA05				1125		G		SO		2	
HA06				1130		G		SO		2	
HA07				1140		G		SO		4	
HA08				1145		G		SO		2	
HA09				1150		G		SO		2	
S-7878-040517-SS4-HA10				1155		G		SO		2	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other											
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.											
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown											
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact: ☐ Yes ☐ No											
Custody Seal No.: 822346											
Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Therm ID No.: _____											
Relinquished by: [Signature] Date/Time: 4/5/17 1600											
Relinquished by: [Signature] Date/Time: 4/6/17 9:05											
Relinquished by: [Signature] Date/Time: _____											
Relinquished by: [Signature] Date/Time: _____											

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 240-77758-1

Login Number: 77758

List Number: 2

Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo

List Creation: 04/08/17 01:32 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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	2.8 #1
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 (Excluding tests with immediate HTs)..	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.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	