TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-44046-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/6/2018 4:48:34 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Job ID: 200-44046-1

Laboratory: TestAmerica Burlington

Narrative

Job Narrative
200-44046-1

Receipt
The samples were received on 6/26/2018 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range SSHS-B1193-SUB-0-2 (200-44046-1), SSHS-B1070-SUB-0-2 (200-44046-2), SSHS-B1073-SUB-2-4 (200-44046-3), SSHS-B1068-SUB-0.2 (200-44046-4), and SSHS-B1189-SUB-4-6 (200-44046-5). The surrogates for sample SSHS-B1068-SUB-0.2 (200-44046-4) should be considered diluted out. Elevated reporting limits (RLs) are provided.

Method(s) 8082A: Sample SSHS-B1227-SUB-2-4 (200-44046-6) had the recovery of a surrogate decachlorobiphenyl below the control limits on both columns. The recoveries of surrogate tetrachloro-m-xylene were within the control limits on both columns.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 200-131402 (CCV 200-131402/29) was above criteria for aroclor 1260 on column RTX-CLP2 . The associated sample results were reported from column RTX-CLP which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The following continuing calibration verifications (CCVs) has chromatographic interferences that adversely impacts the identification and quantitation of the surrogate Decachlorobiphenyl: (CCV 200-131325/22 and CCV 200-131402/8). Decachlorobiphenyl is a component in Aroclor-1268. This interference is limited to this CCV and does not impact the sample analysis.

Method(s) 8082A: The laboratory control sample duplicate (LCSD) for preparation batch 131267 (LCSD 200-131267/3-C was slightly below the control limits for aroclors 1016 and 1260 on column RTX-CLP2. The recoveries were within the control limits on column RTX-CLP. The recoveries of the laboratory control sample (LCS) were within the control limits.

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

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

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Client Sample ID: SSHS-B1193-SUB-0-2 — Lab Sample ID: 200-44046-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	440		71	12	ug/Kg	4	☼	8082A	Total/NA
PCB-1254	190		71	12	ug/Kg	4	☼	8082A	Total/NA
PCB-1260	24	J	71	12	ug/Kg	4	☼	8082A	Total/NA

Client Sample ID: SSHS-B1070-SUB-0-2 — Lab Sample ID: 200-44046-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1400		180	29	ug/Kg	10	☼	8082A	Total/NA
PCB-1254	590		180	29	ug/Kg	10	☼	8082A	Total/NA
PCB-1260	100	J	180	29	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: SSHS-B1073-SUB-2-4 — Lab Sample ID: 200-44046-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	610		78	13	ug/Kg	4	☼	8082A	Total/NA
PCB-1254	330		78	13	ug/Kg	4	☼	8082A	Total/NA
PCB-1260	55	J	78	13	ug/Kg	4	☼	8082A	Total/NA

Client Sample ID: SSHS-B1068-SUB-0.2 — Lab Sample ID: 200-44046-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	65000		10000	1700	ug/Kg	500	☼	8082A	Total/NA
PCB-1254	22000		10000	1700	ug/Kg	500	☼	8082A	Total/NA
PCB-1260	2900	J	10000	1700	ug/Kg	500	☼	8082A	Total/NA

Client Sample ID: SSHS-B1189-SUB-4-6 — Lab Sample ID: 200-44046-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	610		180	30	ug/Kg	10	☼	8082A	Total/NA
PCB-1254	1200		180	30	ug/Kg	10	☼	8082A	Total/NA
PCB-1260	150	J	180	30	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: SSHS-B1227-SUB-2-4 — Lab Sample ID: 200-44046-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	52		20	3.2	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: EB-2 — Lab Sample ID: 200-44046-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: SSHS-B1193-SUB-0-2

Lab Sample ID: 200-44046-1
Date Collected: 06/25/18 10:40
Matrix: Solid
Date Received: 06/26/18 10:05
Percent Solids: 94.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		71	12	ug/Kg	☼	06/28/18 15:08	07/03/18 07:10	4
PCB-1221	ND		71	12	ug/Kg	☼	06/28/18 15:08	07/03/18 07:10	4
PCB-1232	ND		71	12	ug/Kg	☼	06/28/18 15:08	07/03/18 07:10	4
PCB-1242	ND		71	12	ug/Kg	☼	06/28/18 15:08	07/03/18 07:10	4
PCB-1248	**440**		71	12	ug/Kg	☼	06/28/18 15:08	07/03/18 07:10	4
PCB-1254	**190**		71	12	ug/Kg	☼	06/28/18 15:08	07/03/18 07:10	4
PCB-1260	**24**	**J**	71	12	ug/Kg	☼	06/28/18 15:08	07/03/18 07:10	4
PCB-1262	ND		71	12	ug/Kg	☼	06/28/18 15:08	07/03/18 07:10	4
PCB-1268	ND		71	12	ug/Kg	☼	06/28/18 15:08	07/03/18 07:10	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*30 - 130*	*06/28/18 15:08*	*07/03/18 07:10*	*4*
Tetrachloro-m-xylene	*56*		*30 - 130*	*06/28/18 15:08*	*07/03/18 07:10*	*4*
DCB Decachlorobiphenyl	*57*		*45 - 125*	*06/28/18 15:08*	*07/03/18 07:10*	*4*
DCB Decachlorobiphenyl	*62*		*45 - 125*	*06/28/18 15:08*	*07/03/18 07:10*	*4*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**94.2**		0.3	0.3	%			06/26/18 18:51	1

Client Sample ID: SSHS-B1070-SUB-0-2

Lab Sample ID: 200-44046-2
Date Collected: 06/24/18 11:20
Matrix: Solid
Date Received: 06/26/18 10:05
Percent Solids: 96.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	29	ug/Kg	☼	06/28/18 15:08	07/03/18 07:26	10
PCB-1221	ND		180	29	ug/Kg	☼	06/28/18 15:08	07/03/18 07:26	10
PCB-1232	ND		180	29	ug/Kg	☼	06/28/18 15:08	07/03/18 07:26	10
PCB-1242	ND		180	29	ug/Kg	☼	06/28/18 15:08	07/03/18 07:26	10
PCB-1248	**1400**		180	29	ug/Kg	☼	06/28/18 15:08	07/03/18 07:26	10
PCB-1254	**590**		180	29	ug/Kg	☼	06/28/18 15:08	07/03/18 07:26	10
PCB-1260	**100**	**J**	180	29	ug/Kg	☼	06/28/18 15:08	07/03/18 07:26	10
PCB-1262	ND		180	29	ug/Kg	☼	06/28/18 15:08	07/03/18 07:26	10
PCB-1268	ND		180	29	ug/Kg	☼	06/28/18 15:08	07/03/18 07:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*30 - 130*	*06/28/18 15:08*	*07/03/18 07:26*	*10*
Tetrachloro-m-xylene	*65*		*30 - 130*	*06/28/18 15:08*	*07/03/18 07:26*	*10*
DCB Decachlorobiphenyl	*65*		*45 - 125*	*06/28/18 15:08*	*07/03/18 07:26*	*10*
DCB Decachlorobiphenyl	*76*		*45 - 125*	*06/28/18 15:08*	*07/03/18 07:26*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**96.1**		0.3	0.3	%			06/26/18 18:51	1

Client Sample ID: SSHS-B1073-SUB-2-4

Lab Sample ID: 200-44046-3

Date Collected: 06/24/18 14:45
Matrix: Solid
Date Received: 06/26/18 10:05
Percent Solids: 85.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		78	13	ug/Kg	☼	06/28/18 15:08	07/03/18 07:43	4
PCB-1221	ND		78	13	ug/Kg	☼	06/28/18 15:08	07/03/18 07:43	4
PCB-1232	ND		78	13	ug/Kg	☼	06/28/18 15:08	07/03/18 07:43	4
PCB-1242	ND		78	13	ug/Kg	☼	06/28/18 15:08	07/03/18 07:43	4
PCB-1248	**610**		78	13	ug/Kg	☼	06/28/18 15:08	07/03/18 07:43	4
PCB-1254	**330**		78	13	ug/Kg	☼	06/28/18 15:08	07/03/18 07:43	4
PCB-1260	**55**	**J**	78	13	ug/Kg	☼	06/28/18 15:08	07/03/18 07:43	4
PCB-1262	ND		78	13	ug/Kg	☼	06/28/18 15:08	07/03/18 07:43	4
PCB-1268	ND		78	13	ug/Kg	☼	06/28/18 15:08	07/03/18 07:43	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 130*	*06/28/18 15:08*	*07/03/18 07:43*	*4*
Tetrachloro-m-xylene	*61*		*30 - 130*	*06/28/18 15:08*	*07/03/18 07:43*	*4*
DCB Decachlorobiphenyl	*61*		*45 - 125*	*06/28/18 15:08*	*07/03/18 07:43*	*4*
DCB Decachlorobiphenyl	*64*		*45 - 125*	*06/28/18 15:08*	*07/03/18 07:43*	*4*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**85.4**		0.3	0.3	%			06/26/18 18:51	1

Client Sample ID: SSHS-B1068-SUB-0.2

Lab Sample ID: 200-44046-4

Date Collected: 06/24/18 10:00
Matrix: Solid
Date Received: 06/26/18 10:05
Percent Solids: 84.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		10000	1700	ug/Kg	☼	06/28/18 15:08	07/03/18 07:59	500
PCB-1221	ND		10000	1700	ug/Kg	☼	06/28/18 15:08	07/03/18 07:59	500
PCB-1232	ND		10000	1700	ug/Kg	☼	06/28/18 15:08	07/03/18 07:59	500
PCB-1242	ND		10000	1700	ug/Kg	☼	06/28/18 15:08	07/03/18 07:59	500
PCB-1248	**65000**		10000	1700	ug/Kg	☼	06/28/18 15:08	07/03/18 07:59	500
PCB-1254	**22000**		10000	1700	ug/Kg	☼	06/28/18 15:08	07/03/18 07:59	500
PCB-1260	**2900**	**J**	10000	1700	ug/Kg	☼	06/28/18 15:08	07/03/18 07:59	500
PCB-1262	ND		10000	1700	ug/Kg	☼	06/28/18 15:08	07/03/18 07:59	500
PCB-1268	ND		10000	1700	ug/Kg	☼	06/28/18 15:08	07/03/18 07:59	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 130*	*06/28/18 15:08*	*07/03/18 07:59*	*500*
Tetrachloro-m-xylene	*96*		*30 - 130*	*06/28/18 15:08*	*07/03/18 07:59*	*500*
DCB Decachlorobiphenyl	*100*		*45 - 125*	*06/28/18 15:08*	*07/03/18 07:59*	*500*
DCB Decachlorobiphenyl	*135*	*X*	*45 - 125*	*06/28/18 15:08*	*07/03/18 07:59*	*500*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**84.3**		0.3	0.3	%			06/26/18 18:51	1

Client Sample ID: SSHS-B1189-SUB-4-6

Date Collected: 06/24/18 15:30
Date Received: 06/26/18 10:05

Lab Sample ID: 200-44046-5

Matrix: Solid
Percent Solids: 89.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	30	ug/Kg	☼	06/28/18 15:08	07/03/18 08:16	10
PCB-1221	ND		180	30	ug/Kg	☼	06/28/18 15:08	07/03/18 08:16	10
PCB-1232	ND		180	30	ug/Kg	☼	06/28/18 15:08	07/03/18 08:16	10
PCB-1242	ND		180	30	ug/Kg	☼	06/28/18 15:08	07/03/18 08:16	10
PCB-1248	**610**		180	30	ug/Kg	☼	06/28/18 15:08	07/03/18 08:16	10
PCB-1254	**1200**		180	30	ug/Kg	☼	06/28/18 15:08	07/03/18 08:16	10
PCB-1260	**150**	**J**	180	30	ug/Kg	☼	06/28/18 15:08	07/03/18 08:16	10
PCB-1262	ND		180	30	ug/Kg	☼	06/28/18 15:08	07/03/18 08:16	10
PCB-1268	ND		180	30	ug/Kg	☼	06/28/18 15:08	07/03/18 08:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 130*	*06/28/18 15:08*	*07/03/18 08:16*	*10*
Tetrachloro-m-xylene	*73*		*30 - 130*	*06/28/18 15:08*	*07/03/18 08:16*	*10*
DCB Decachlorobiphenyl	*73*		*45 - 125*	*06/28/18 15:08*	*07/03/18 08:16*	*10*
DCB Decachlorobiphenyl	*79*		*45 - 125*	*06/28/18 15:08*	*07/03/18 08:16*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**89.2**		0.3	0.3	%			06/26/18 18:51	1

Client Sample ID: SSHS-B1227-SUB-2-4

Date Collected: 06/23/18 14:45
Date Received: 06/26/18 10:05

Lab Sample ID: 200-44046-6

Matrix: Solid
Percent Solids: 85.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	3.2	ug/Kg	☼	06/28/18 15:08	06/30/18 01:06	1
PCB-1221	ND		20	3.2	ug/Kg	☼	06/28/18 15:08	06/30/18 01:06	1
PCB-1232	ND		20	3.2	ug/Kg	☼	06/28/18 15:08	06/30/18 01:06	1
PCB-1242	ND		20	3.2	ug/Kg	☼	06/28/18 15:08	06/30/18 01:06	1
PCB-1248	**52**		20	3.2	ug/Kg	☼	06/28/18 15:08	06/30/18 01:06	1
PCB-1254	ND		20	3.2	ug/Kg	☼	06/28/18 15:08	06/30/18 01:06	1
PCB-1260	ND		20	3.2	ug/Kg	☼	06/28/18 15:08	06/30/18 01:06	1
PCB-1262	ND		20	3.2	ug/Kg	☼	06/28/18 15:08	06/30/18 01:06	1
PCB-1268	ND		20	3.2	ug/Kg	☼	06/28/18 15:08	06/30/18 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*30 - 130*	*06/28/18 15:08*	*06/30/18 01:06*	*1*
Tetrachloro-m-xylene	*47*		*30 - 130*	*06/28/18 15:08*	*06/30/18 01:06*	*1*
DCB Decachlorobiphenyl	*33*	*X*	*45 - 125*	*06/28/18 15:08*	*06/30/18 01:06*	*1*
DCB Decachlorobiphenyl	*32*	*X*	*45 - 125*	*06/28/18 15:08*	*06/30/18 01:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**85.6**		0.3	0.3	%			06/26/18 18:51	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Client Sample ID: EB-2
Date Collected: 06/24/18 16:00
Date Received: 06/26/18 10:05

Lab Sample ID: 200-44046-7
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.055	ug/L		06/28/18 09:20	06/29/18 21:49	1
PCB-1221	ND		0.49	0.055	ug/L		06/28/18 09:20	06/29/18 21:49	1
PCB-1232	ND		0.49	0.055	ug/L		06/28/18 09:20	06/29/18 21:49	1
PCB-1242	ND		0.49	0.055	ug/L		06/28/18 09:20	06/29/18 21:49	1
PCB-1248	ND		0.49	0.055	ug/L		06/28/18 09:20	06/29/18 21:49	1
PCB-1254	ND		0.49	0.023	ug/L		06/28/18 09:20	06/29/18 21:49	1
PCB-1260	ND		0.49	0.023	ug/L		06/28/18 09:20	06/29/18 21:49	1
PCB-1262	ND		0.49	0.023	ug/L		06/28/18 09:20	06/29/18 21:49	1
PCB-1268	ND		0.49	0.023	ug/L		06/28/18 09:20	06/29/18 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*55 - 120*	*06/28/18 09:20*	*06/29/18 21:49*	*1*
Tetrachloro-m-xylene	*77*		*55 - 120*	*06/28/18 09:20*	*06/29/18 21:49*	*1*
DCB Decachlorobiphenyl	*30*		*30 - 150*	*06/28/18 09:20*	*06/29/18 21:49*	*1*
DCB Decachlorobiphenyl	*30*		*30 - 150*	*06/28/18 09:20*	*06/29/18 21:49*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(45-125)	(45-125)
200-44046-1	SSHS-B1193-SUB-0-2	51	56	57	62
200-44046-2	SSHS-B1070-SUB-0-2	57	65	65	76
200-44046-3	SSHS-B1073-SUB-2-4	60	61	61	64
200-44046-4	SSHS-B1068-SUB-0.2	66	96	100	135 X
200-44046-5	SSHS-B1189-SUB-4-6	69	73	73	79
200-44046-6	SSHS-B1227-SUB-2-4	49	47	33 X	32 X
LCS 200-131267/2-C	Lab Control Sample	51	54	52	56
LCSD 200-131267/3-C	Lab Control Sample Dup	51	51	53	55
MB 200-131267/1-C	Method Blank	67	67	69	69

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(55-120)	(55-120)	(30-150)	(30-150)
200-44046-7	EB-2	77	77	30	30
LCS 200-131241/2-A	Lab Control Sample	85	83	77	73
LCSD 200-131241/3-A	Lab Control Sample Dup	81	79	74	76
MB 200-131241/1-A	Method Blank	72	73	63	61

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 200-131241/1-A
Matrix: Water
Analysis Batch: 131325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1221	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1232	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1242	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1248	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1254	ND		0.50	0.024	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1260	ND		0.50	0.024	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1262	ND		0.50	0.024	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1268	ND		0.50	0.024	ug/L		06/28/18 09:20	06/29/18 20:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*55 - 120*	*06/28/18 09:20*	*06/29/18 20:43*	*1*
Tetrachloro-m-xylene	*73*		*55 - 120*	*06/28/18 09:20*	*06/29/18 20:43*	*1*
DCB Decachlorobiphenyl	*63*		*30 - 150*	*06/28/18 09:20*	*06/29/18 20:43*	*1*
DCB Decachlorobiphenyl	*61*		*30 - 150*	*06/28/18 09:20*	*06/29/18 20:43*	*1*

Lab Sample ID: LCS 200-131241/2-A
Matrix: Water
Analysis Batch: 131325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131241

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.00	4.26		ug/L		85	55 - 120		
PCB-1260			5.00	3.93		ug/L		79	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*55 - 120*
Tetrachloro-m-xylene	*83*		*55 - 120*
DCB Decachlorobiphenyl	*77*		*30 - 150*
DCB Decachlorobiphenyl	*73*		*30 - 150*

Lab Sample ID: LCSD 200-131241/3-A
Matrix: Water
Analysis Batch: 131325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131241

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.00	4.18		ug/L		84	55 - 120	2	30
PCB-1260			5.00	3.97		ug/L		79	60 - 125	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*55 - 120*
Tetrachloro-m-xylene	*79*		*55 - 120*
DCB Decachlorobiphenyl	*74*		*30 - 150*
DCB Decachlorobiphenyl	*76*		*30 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 200-131267/1-C
Matrix: Solid
Analysis Batch: 131325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	2.8	ug/Kg		06/28/18 15:08	06/29/18 22:54	1
PCB-1221	ND		17	2.8	ug/Kg		06/28/18 15:08	06/29/18 22:54	1
PCB-1232	ND		17	2.8	ug/Kg		06/28/18 15:08	06/29/18 22:54	1
PCB-1242	ND		17	2.8	ug/Kg		06/28/18 15:08	06/29/18 22:54	1
PCB-1248	ND		17	2.8	ug/Kg		06/28/18 15:08	06/29/18 22:54	1
PCB-1254	ND		17	2.8	ug/Kg		06/28/18 15:08	06/29/18 22:54	1
PCB-1260	ND		17	2.8	ug/Kg		06/28/18 15:08	06/29/18 22:54	1
PCB-1262	ND		17	2.8	ug/Kg		06/28/18 15:08	06/29/18 22:54	1
PCB-1268	ND		17	2.8	ug/Kg		06/28/18 15:08	06/29/18 22:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 130*	*06/28/18 15:08*	*06/29/18 22:54*	*1*
Tetrachloro-m-xylene	*67*		*30 - 130*	*06/28/18 15:08*	*06/29/18 22:54*	*1*
DCB Decachlorobiphenyl	*69*		*45 - 125*	*06/28/18 15:08*	*06/29/18 22:54*	*1*
DCB Decachlorobiphenyl	*69*		*45 - 125*	*06/28/18 15:08*	*06/29/18 22:54*	*1*

Lab Sample ID: LCS 200-131267/2-C
Matrix: Solid
Analysis Batch: 131325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131267

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	91.2		ug/Kg		55	55 - 120		
PCB-1260			167	91.5		ug/Kg		55	55 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*51*		*30 - 130*
Tetrachloro-m-xylene	*54*		*30 - 130*
DCB Decachlorobiphenyl	*52*		*45 - 125*
DCB Decachlorobiphenyl	*56*		*45 - 125*

Lab Sample ID: LCSD 200-131267/3-C
Matrix: Solid
Analysis Batch: 131325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131267

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			167	85.8	*	ug/Kg		52	55 - 120	6	30
PCB-1260			167	90.2	*	ug/Kg		54	55 - 125	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*51*		*30 - 130*
Tetrachloro-m-xylene	*51*		*30 - 130*
DCB Decachlorobiphenyl	*53*		*45 - 125*
DCB Decachlorobiphenyl	*55*		*45 - 125*

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Method: Moisture - Percent Moisture

Lab Sample ID: 200-44046-6 DU
Matrix: Solid
Analysis Batch: 131171

Client Sample ID: SSHS-B1227-SUB-2-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	85.6			84.8		%				0.8	20

GC Semi VOA

Prep Batch: 131241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44046-7	EB-2	Total/NA	Water	3510C	
MB 200-131241/1-A	Method Blank	Total/NA	Water	3510C	
LCS 200-131241/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 200-131241/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 131267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44046-1	SSHS-B1193-SUB-0-2	Total/NA	Solid	3541	
200-44046-2	SSHS-B1070-SUB-0-2	Total/NA	Solid	3541	
200-44046-3	SSHS-B1073-SUB-2-4	Total/NA	Solid	3541	
200-44046-4	SSHS-B1068-SUB-0.2	Total/NA	Solid	3541	
200-44046-5	SSHS-B1189-SUB-4-6	Total/NA	Solid	3541	
200-44046-6	SSHS-B1227-SUB-2-4	Total/NA	Solid	3541	
MB 200-131267/1-C	Method Blank	Total/NA	Solid	3541	
LCS 200-131267/2-C	Lab Control Sample	Total/NA	Solid	3541	
LCSD 200-131267/3-C	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 131303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44046-1	SSHS-B1193-SUB-0-2	Total/NA	Solid	3665A	131267
200-44046-2	SSHS-B1070-SUB-0-2	Total/NA	Solid	3665A	131267
200-44046-3	SSHS-B1073-SUB-2-4	Total/NA	Solid	3665A	131267
200-44046-4	SSHS-B1068-SUB-0.2	Total/NA	Solid	3665A	131267
200-44046-5	SSHS-B1189-SUB-4-6	Total/NA	Solid	3665A	131267
200-44046-6	SSHS-B1227-SUB-2-4	Total/NA	Solid	3665A	131267
MB 200-131267/1-C	Method Blank	Total/NA	Solid	3665A	131267
LCS 200-131267/2-C	Lab Control Sample	Total/NA	Solid	3665A	131267
LCSD 200-131267/3-C	Lab Control Sample Dup	Total/NA	Solid	3665A	131267

Cleanup Batch: 131306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44046-1	SSHS-B1193-SUB-0-2	Total/NA	Solid	3660B	131303
200-44046-2	SSHS-B1070-SUB-0-2	Total/NA	Solid	3660B	131303
200-44046-3	SSHS-B1073-SUB-2-4	Total/NA	Solid	3660B	131303
200-44046-4	SSHS-B1068-SUB-0.2	Total/NA	Solid	3660B	131303
200-44046-5	SSHS-B1189-SUB-4-6	Total/NA	Solid	3660B	131303
200-44046-6	SSHS-B1227-SUB-2-4	Total/NA	Solid	3660B	131303
MB 200-131267/1-C	Method Blank	Total/NA	Solid	3660B	131303
LCS 200-131267/2-C	Lab Control Sample	Total/NA	Solid	3660B	131303
LCSD 200-131267/3-C	Lab Control Sample Dup	Total/NA	Solid	3660B	131303

Analysis Batch: 131325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44046-6	SSHS-B1227-SUB-2-4	Total/NA	Solid	8082A	131306
200-44046-7	EB-2	Total/NA	Water	8082A	131241
MB 200-131241/1-A	Method Blank	Total/NA	Water	8082A	131241
MB 200-131267/1-C	Method Blank	Total/NA	Solid	8082A	131306
LCS 200-131241/2-A	Lab Control Sample	Total/NA	Water	8082A	131241
LCS 200-131267/2-C	Lab Control Sample	Total/NA	Solid	8082A	131306
LCSD 200-131241/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	131241
LCSD 200-131267/3-C	Lab Control Sample Dup	Total/NA	Solid	8082A	131306

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Analysis Batch: 131402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44046-1	SSHS-B1193-SUB-0-2	Total/NA	Solid	8082A	131306
200-44046-2	SSHS-B1070-SUB-0-2	Total/NA	Solid	8082A	131306
200-44046-3	SSHS-B1073-SUB-2-4	Total/NA	Solid	8082A	131306
200-44046-4	SSHS-B1068-SUB-0.2	Total/NA	Solid	8082A	131306
200-44046-5	SSHS-B1189-SUB-4-6	Total/NA	Solid	8082A	131306

General Chemistry

Analysis Batch: 131171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44046-1	SSHS-B1193-SUB-0-2	Total/NA	Solid	Moisture	
200-44046-2	SSHS-B1070-SUB-0-2	Total/NA	Solid	Moisture	
200-44046-3	SSHS-B1073-SUB-2-4	Total/NA	Solid	Moisture	
200-44046-4	SSHS-B1068-SUB-0.2	Total/NA	Solid	Moisture	
200-44046-5	SSHS-B1189-SUB-4-6	Total/NA	Solid	Moisture	
200-44046-6	SSHS-B1227-SUB-2-4	Total/NA	Solid	Moisture	
200-44046-6 DU	SSHS-B1227-SUB-2-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Client Sample ID: SSHS-B1193-SUB-0-2
Lab Sample ID: 200-44046-1
Date Collected: 06/25/18 10:40
Matrix: Solid
Date Received: 06/26/18 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131171	06/26/18 18:51	EEJ	TAL BUR

Client Sample ID: SSHS-B1193-SUB-0-2
Lab Sample ID: 200-44046-1
Date Collected: 06/25/18 10:40
Matrix: Solid
Date Received: 06/26/18 10:05
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131267	06/28/18 15:08	SAC	TAL BUR
Total/NA	Cleanup	3665A			131303	06/29/18 08:30	SAC	TAL BUR
Total/NA	Cleanup	3660B			131306	06/29/18 09:00	SAC	TAL BUR
Total/NA	Analysis	8082A		4	131402	07/03/18 07:10	RRM	TAL BUR

Client Sample ID: SSHS-B1070-SUB-0-2
Lab Sample ID: 200-44046-2
Date Collected: 06/24/18 11:20
Matrix: Solid
Date Received: 06/26/18 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131171	06/26/18 18:51	EEJ	TAL BUR

Client Sample ID: SSHS-B1070-SUB-0-2
Lab Sample ID: 200-44046-2
Date Collected: 06/24/18 11:20
Matrix: Solid
Date Received: 06/26/18 10:05
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131267	06/28/18 15:08	SAC	TAL BUR
Total/NA	Cleanup	3665A			131303	06/29/18 08:30	SAC	TAL BUR
Total/NA	Cleanup	3660B			131306	06/29/18 09:00	SAC	TAL BUR
Total/NA	Analysis	8082A		10	131402	07/03/18 07:26	RRM	TAL BUR

Client Sample ID: SSHS-B1073-SUB-2-4
Lab Sample ID: 200-44046-3
Date Collected: 06/24/18 14:45
Matrix: Solid
Date Received: 06/26/18 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131171	06/26/18 18:51	EEJ	TAL BUR

Client Sample ID: SSHS-B1073-SUB-2-4
Lab Sample ID: 200-44046-3
Date Collected: 06/24/18 14:45
Matrix: Solid
Date Received: 06/26/18 10:05
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131267	06/28/18 15:08	SAC	TAL BUR
Total/NA	Cleanup	3665A			131303	06/29/18 08:30	SAC	TAL BUR

Client Sample ID: SSHS-B1073-SUB-2-4 — Lab Sample ID: 200-44046-3

Date Collected: 06/24/18 14:45 — **Matrix: Solid**
Date Received: 06/26/18 10:05 — **Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3660B			131306	06/29/18 09:00	SAC	TAL BUR
Total/NA	Analysis	8082A		4	131402	07/03/18 07:43	RRM	TAL BUR

Client Sample ID: SSHS-B1068-SUB-0.2 — Lab Sample ID: 200-44046-4

Date Collected: 06/24/18 10:00 — **Matrix: Solid**
Date Received: 06/26/18 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131171	06/26/18 18:51	EEJ	TAL BUR

Client Sample ID: SSHS-B1068-SUB-0.2 — Lab Sample ID: 200-44046-4

Date Collected: 06/24/18 10:00 — **Matrix: Solid**
Date Received: 06/26/18 10:05 — **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131267	06/28/18 15:08	SAC	TAL BUR
Total/NA	Cleanup	3665A			131303	06/29/18 08:30	SAC	TAL BUR
Total/NA	Cleanup	3660B			131306	06/29/18 09:00	SAC	TAL BUR
Total/NA	Analysis	8082A		500	131402	07/03/18 07:59	RRM	TAL BUR

Client Sample ID: SSHS-B1189-SUB-4-6 — Lab Sample ID: 200-44046-5

Date Collected: 06/24/18 15:30 — **Matrix: Solid**
Date Received: 06/26/18 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131171	06/26/18 18:51	EEJ	TAL BUR

Client Sample ID: SSHS-B1189-SUB-4-6 — Lab Sample ID: 200-44046-5

Date Collected: 06/24/18 15:30 — **Matrix: Solid**
Date Received: 06/26/18 10:05 — **Percent Solids: 89.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131267	06/28/18 15:08	SAC	TAL BUR
Total/NA	Cleanup	3665A			131303	06/29/18 08:30	SAC	TAL BUR
Total/NA	Cleanup	3660B			131306	06/29/18 09:00	SAC	TAL BUR
Total/NA	Analysis	8082A		10	131402	07/03/18 08:16	RRM	TAL BUR

Client Sample ID: SSHS-B1227-SUB-2-4 — Lab Sample ID: 200-44046-6

Date Collected: 06/23/18 14:45 — **Matrix: Solid**
Date Received: 06/26/18 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131171	06/26/18 18:51	EEJ	TAL BUR

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Client Sample ID: SSHS-B1227-SUB-2-4

Lab Sample ID: 200-44046-6

Date Collected: 06/23/18 14:45
Matrix: Solid
Date Received: 06/26/18 10:05
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131267	06/28/18 15:08	SAC	TAL BUR
Total/NA	Cleanup	3665A			131303	06/29/18 08:30	SAC	TAL BUR
Total/NA	Cleanup	3660B			131306	06/29/18 09:00	SAC	TAL BUR
Total/NA	Analysis	8082A		1	131325	06/30/18 01:06	BHOK	TAL BUR

Client Sample ID: EB-2

Lab Sample ID: 200-44046-7

Date Collected: 06/24/18 16:00
Matrix: Water
Date Received: 06/26/18 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			131241	06/28/18 09:20	HCK	TAL BUR
Total/NA	Analysis	8082A		1	131325	06/29/18 21:49	BHOK	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 200-44046-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10391	04-01-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUR
Moisture	Percent Moisture	EPA	TAL BUR
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUR
3541	Automated Soxhlet Extraction	SW846	TAL BUR
3660B	Sulfur Cleanup	SW846	TAL BUR
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL BUR

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 BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44046-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-44046-1	SSHS-B1193-SUB-0-2	Solid	06/25/18 10:40	06/26/18 10:05
200-44046-2	SSHS-B1070-SUB-0-2	Solid	06/24/18 11:20	06/26/18 10:05
200-44046-3	SSHS-B1073-SUB-2-4	Solid	06/24/18 14:45	06/26/18 10:05
200-44046-4	SSHS-B1068-SUB-0.2	Solid	06/24/18 10:00	06/26/18 10:05
200-44046-5	SSHS-B1189-SUB-4-6	Solid	06/24/18 15:30	06/26/18 10:05
200-44046-6	SSHS-B1227-SUB-2-4	Solid	06/23/18 14:45	06/26/18 10:05
200-44046-7	EB-2	Water	06/24/18 16:00	06/26/18 10:05

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: M.Schallinger / A.Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 5
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1			
State, Zip: PA, 15276				
Phone:	PO #: ~~MN08320~~ MS MN08320			
Email: aranna@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site: Former Sperry Remington Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code				N	N	N	A		
SSHS-B1193-Sub-02	6/25/18	1040	C	Solid	N	N			X		2	1 DAY TAT
SSHS-B1070-Sub-0-2	6/24/18	1120	C	Solid	N	N			X		2	
SSHS-B1073-Sub-2-4	6/24/18	1445	C	Solid	N	N			X		2	
SSHS-B1068-Sub-0-2	6/24/18	1000	C	Solid	N	N			X		2	
SSHS-B1189-Sub-4-6	6/24/18	1530	C	Solid	N	N			X		2	
SSHS-B1227-Sub-2-4	6/23/18	1445	C	Solid	N	N			X		2	
EB-2	6/24/18	1600	G	Water ~~Solid~~	N	N			X		3	
				Solid								
				Solid								
				Solid								
				Solid								

200-44046 Chain of Custody

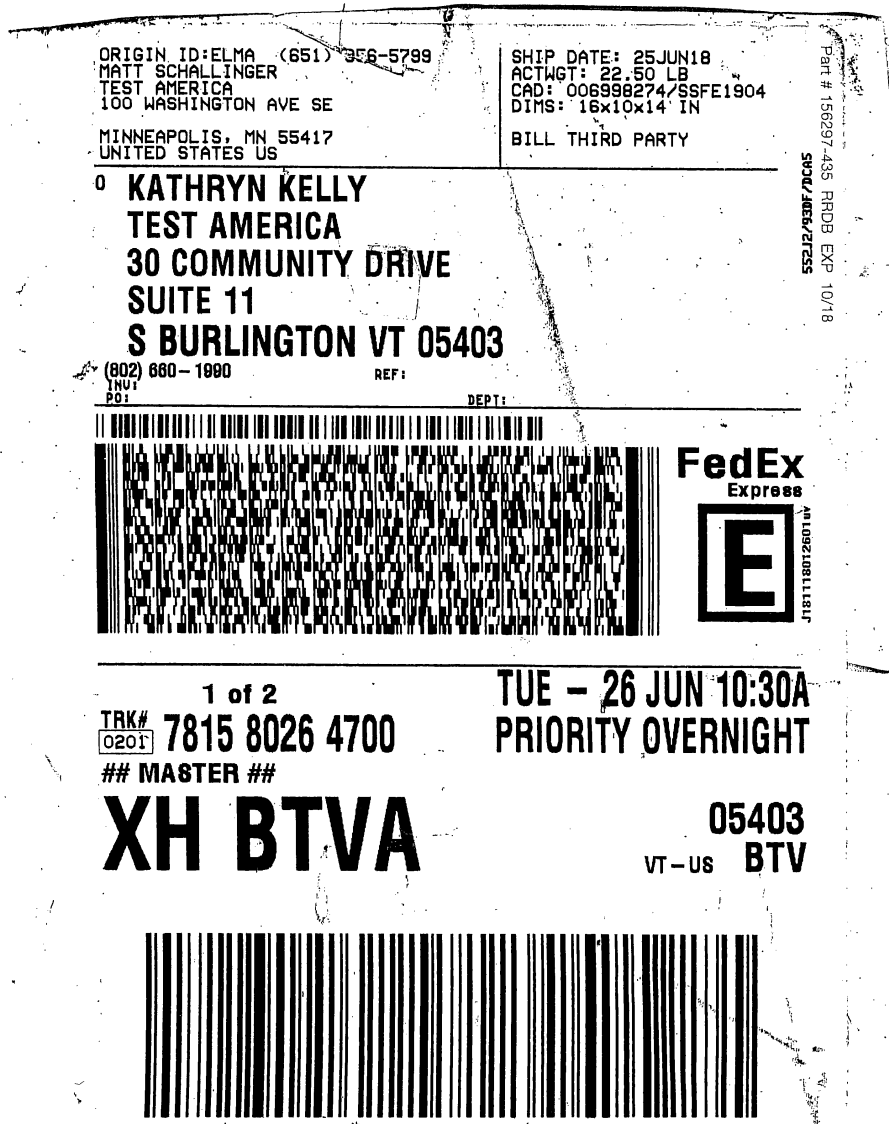
Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (... r than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: M.Schallinger	Date/Time: 6/25/18 1900	Company: Geosyntec	Received by: FedEx	Date/Time: 6/26/18 1900	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 6/26/18 1005	Company: TA3JR
Custody Seals Intact: ☑ Yes △ No	Custody Seal No.: 229140, 034314		Cooler Temperature(s) °C and Other Remarks: 2.4		


ORIGIN ID:ELMA (651) 356-5799
MATT SCHALLINGER
TEST AMERICA
100 WASHINGTON AVE SE
MINNEAPOLIS, MN 55417
UNITED STATES US
SHIP DATE: 25JUN18
ACTWGT: 22.50 LB
CAD: 006998274/SSFE1904
DIMS: 16x10x14 IN
BILL THIRD PARTY
0 KATHRYN KELLY
TEST AMERICA
30 COMMUNITY DRIVE
SUITE 11
S BURLINGTON VT 05403
(802) 660-1990
REF:
INV:
PO:
DEPT:
FedEx
Express
1 of 2
TRK# 0201 7815 8026 4700
MASTER
XH BTVA
TUE - 26 JUN 10:30A
PRIORITY OVERNIGHT
05403
VT-US BTV
Part # 156297-435 RRDB EXP 10/18

ORIGIN ID:ELMA (651) 356-5799
MATT SCHALLINGER
TEST AMERICA
100 WASHINGTON AVE SE
MINNEAPOLIS, MN 55417
UNITED STATES US
SHIP DATE: 25JUN18
ACTWGT: 53.20 LB
CAD: 006998274/SSFE1904
DIMS: 24x13x13 IN
BILL THIRD PARTY
0 KATHRYN KELLY
TEST AMERICA
30 COMMUNITY DRIVE
SUITE 11
S BURLINGTON VT 05403
(802) 660-1990
REF:
INV:
PO:
DEPT:
FedEx
Express
2 of 2
MPS# 0263 7815 8026 4710
Mstr# 7815 8026 4700
0201
XH BTVA
TUE - 26 JUN 10:30A
PRIORITY OVERNIGHT
05403
VT-US BTV
Part # 156297-435 RRDB EXP 10/18

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 200-44046-1

Login Number: 44046
List Number: 1
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	229140
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-44065-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/6/2018 4:16:06 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44065-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44065-1

Client Sample ID: SSHS-B1195-SUB-0-2 — Lab Sample ID: 200-44065-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	26000		4300	700	ug/Kg	200	☼	8082A	Total/NA
PCB-1254	9500		4300	700	ug/Kg	200	☼	8082A	Total/NA
PCB-1260	1700	J	4300	700	ug/Kg	200	☼	8082A	Total/NA

Client Sample ID: SSHS-B1069-SUB-0-2 — Lab Sample ID: 200-44065-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	18		18	2.9	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	8.6	J	18	2.9	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: SSHS-B1192-SUB-0-2 — Lab Sample ID: 200-44065-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	2600		360	59	ug/Kg	20	☼	8082A	Total/NA
PCB-1254	960		360	59	ug/Kg	20	☼	8082A	Total/NA
PCB-1260	160	J	360	59	ug/Kg	20	☼	8082A	Total/NA

Client Sample ID: SSHS-B1067-SUB-0-2 — Lab Sample ID: 200-44065-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	650		97	16	ug/Kg	5	☼	8082A	Total/NA
PCB-1254	380		97	16	ug/Kg	5	☼	8082A	Total/NA
PCB-1260	78	J	97	16	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: FD-3 — Lab Sample ID: 200-44065-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	610		96	16	ug/Kg	5	☼	8082A	Total/NA
PCB-1254	350		96	16	ug/Kg	5	☼	8082A	Total/NA
PCB-1260	72	J	96	16	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: EB-3 — Lab Sample ID: 200-44065-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: SSHS-B1195-SUB-0-2

Lab Sample ID: 200-44065-1
Date Collected: 06/26/18 14:50
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 79.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4300	700	ug/Kg	☼	06/29/18 11:37	07/03/18 05:32	200
PCB-1221	ND		4300	700	ug/Kg	☼	06/29/18 11:37	07/03/18 05:32	200
PCB-1232	ND		4300	700	ug/Kg	☼	06/29/18 11:37	07/03/18 05:32	200
PCB-1242	ND		4300	700	ug/Kg	☼	06/29/18 11:37	07/03/18 05:32	200
PCB-1248	**26000**		4300	700	ug/Kg	☼	06/29/18 11:37	07/03/18 05:32	200
PCB-1254	**9500**		4300	700	ug/Kg	☼	06/29/18 11:37	07/03/18 05:32	200
PCB-1260	**1700**	**J**	4300	700	ug/Kg	☼	06/29/18 11:37	07/03/18 05:32	200
PCB-1262	ND		4300	700	ug/Kg	☼	06/29/18 11:37	07/03/18 05:32	200
PCB-1268	ND		4300	700	ug/Kg	☼	06/29/18 11:37	07/03/18 05:32	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 130*	*06/29/18 11:37*	*07/03/18 05:32*	*200*
Tetrachloro-m-xylene	*87*		*30 - 130*	*06/29/18 11:37*	*07/03/18 05:32*	*200*
DCB Decachlorobiphenyl	*108*		*45 - 125*	*06/29/18 11:37*	*07/03/18 05:32*	*200*
DCB Decachlorobiphenyl	*129*	*X*	*45 - 125*	*06/29/18 11:37*	*07/03/18 05:32*	*200*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**79.5**		0.3	0.3	%			06/27/18 20:23	1

Client Sample ID: SSHS-B1069-SUB-0-2

Lab Sample ID: 200-44065-2
Date Collected: 06/26/18 15:30
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 95.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	2.9	ug/Kg	☼	06/29/18 11:37	07/03/18 05:48	1
PCB-1221	ND		18	2.9	ug/Kg	☼	06/29/18 11:37	07/03/18 05:48	1
PCB-1232	ND		18	2.9	ug/Kg	☼	06/29/18 11:37	07/03/18 05:48	1
PCB-1242	ND		18	2.9	ug/Kg	☼	06/29/18 11:37	07/03/18 05:48	1
PCB-1248	**18**		18	2.9	ug/Kg	☼	06/29/18 11:37	07/03/18 05:48	1
PCB-1254	**8.6**	**J**	18	2.9	ug/Kg	☼	06/29/18 11:37	07/03/18 05:48	1
PCB-1260	ND		18	2.9	ug/Kg	☼	06/29/18 11:37	07/03/18 05:48	1
PCB-1262	ND		18	2.9	ug/Kg	☼	06/29/18 11:37	07/03/18 05:48	1
PCB-1268	ND		18	2.9	ug/Kg	☼	06/29/18 11:37	07/03/18 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*30 - 130*	*06/29/18 11:37*	*07/03/18 05:48*	*1*
Tetrachloro-m-xylene	*91*		*30 - 130*	*06/29/18 11:37*	*07/03/18 05:48*	*1*
DCB Decachlorobiphenyl	*69*		*45 - 125*	*06/29/18 11:37*	*07/03/18 05:48*	*1*
DCB Decachlorobiphenyl	*75*		*45 - 125*	*06/29/18 11:37*	*07/03/18 05:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**95.4**		0.3	0.3	%			06/27/18 20:23	1

Client Sample ID: SSHS-B1192-SUB-0-2

Lab Sample ID: 200-44065-3

Date Collected: 06/26/18 16:00
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 94.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		360	59	ug/Kg	☼	06/29/18 11:37	07/03/18 06:04	20
PCB-1221	ND		360	59	ug/Kg	☼	06/29/18 11:37	07/03/18 06:04	20
PCB-1232	ND		360	59	ug/Kg	☼	06/29/18 11:37	07/03/18 06:04	20
PCB-1242	ND		360	59	ug/Kg	☼	06/29/18 11:37	07/03/18 06:04	20
PCB-1248	**2600**		360	59	ug/Kg	☼	06/29/18 11:37	07/03/18 06:04	20
PCB-1254	**960**		360	59	ug/Kg	☼	06/29/18 11:37	07/03/18 06:04	20
PCB-1260	**160**	**J**	360	59	ug/Kg	☼	06/29/18 11:37	07/03/18 06:04	20
PCB-1262	ND		360	59	ug/Kg	☼	06/29/18 11:37	07/03/18 06:04	20
PCB-1268	ND		360	59	ug/Kg	☼	06/29/18 11:37	07/03/18 06:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 130*	*06/29/18 11:37*	*07/03/18 06:04*	*20*
Tetrachloro-m-xylene	*100*		*30 - 130*	*06/29/18 11:37*	*07/03/18 06:04*	*20*
DCB Decachlorobiphenyl	*115*		*45 - 125*	*06/29/18 11:37*	*07/03/18 06:04*	*20*
DCB Decachlorobiphenyl	*121*		*45 - 125*	*06/29/18 11:37*	*07/03/18 06:04*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**94.2**		0.3	0.3	%			06/27/18 20:23	1

Client Sample ID: SSHS-B1067-SUB-0-2

Lab Sample ID: 200-44065-4

Date Collected: 06/26/18 16:30
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 87.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		97	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:21	5
PCB-1221	ND		97	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:21	5
PCB-1232	ND		97	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:21	5
PCB-1242	ND		97	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:21	5
PCB-1248	**650**		97	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:21	5
PCB-1254	**380**		97	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:21	5
PCB-1260	**78**	**J**	97	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:21	5
PCB-1262	ND		97	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:21	5
PCB-1268	ND		97	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*30 - 130*	*06/29/18 11:37*	*07/03/18 06:21*	*5*
Tetrachloro-m-xylene	*90*		*30 - 130*	*06/29/18 11:37*	*07/03/18 06:21*	*5*
DCB Decachlorobiphenyl	*93*		*45 - 125*	*06/29/18 11:37*	*07/03/18 06:21*	*5*
DCB Decachlorobiphenyl	*96*		*45 - 125*	*06/29/18 11:37*	*07/03/18 06:21*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**87.3**		0.3	0.3	%			06/27/18 20:23	1

Client Sample ID: FD-3

Date Collected: 06/26/18 00:00
Date Received: 06/27/18 10:20

Lab Sample ID: 200-44065-5
Matrix: Solid
Percent Solids: 88.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		96	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:37	5
PCB-1221	ND		96	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:37	5
PCB-1232	ND		96	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:37	5
PCB-1242	ND		96	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:37	5
PCB-1248	**610**		96	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:37	5
PCB-1254	**350**		96	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:37	5
PCB-1260	**72**	**J**	96	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:37	5
PCB-1262	ND		96	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:37	5
PCB-1268	ND		96	16	ug/Kg	☼	06/29/18 11:37	07/03/18 06:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 130*	*06/29/18 11:37*	*07/03/18 06:37*	*5*
Tetrachloro-m-xylene	*84*		*30 - 130*	*06/29/18 11:37*	*07/03/18 06:37*	*5*
DCB Decachlorobiphenyl	*82*		*45 - 125*	*06/29/18 11:37*	*07/03/18 06:37*	*5*
DCB Decachlorobiphenyl	*85*		*45 - 125*	*06/29/18 11:37*	*07/03/18 06:37*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**88.4**		0.3	0.3	%			06/27/18 20:23	1

Client Sample ID: EB-3

Date Collected: 06/25/18 18:00
Date Received: 06/27/18 10:20

Lab Sample ID: 200-44065-6
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.055	ug/L		06/28/18 09:20	06/29/18 22:05	1
PCB-1221	ND		0.48	0.055	ug/L		06/28/18 09:20	06/29/18 22:05	1
PCB-1232	ND		0.48	0.055	ug/L		06/28/18 09:20	06/29/18 22:05	1
PCB-1242	ND		0.48	0.055	ug/L		06/28/18 09:20	06/29/18 22:05	1
PCB-1248	ND		0.48	0.055	ug/L		06/28/18 09:20	06/29/18 22:05	1
PCB-1254	ND		0.48	0.023	ug/L		06/28/18 09:20	06/29/18 22:05	1
PCB-1260	ND		0.48	0.023	ug/L		06/28/18 09:20	06/29/18 22:05	1
PCB-1262	ND		0.48	0.023	ug/L		06/28/18 09:20	06/29/18 22:05	1
PCB-1268	ND		0.48	0.023	ug/L		06/28/18 09:20	06/29/18 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*55 - 120*	*06/28/18 09:20*	*06/29/18 22:05*	*1*
Tetrachloro-m-xylene	*78*		*55 - 120*	*06/28/18 09:20*	*06/29/18 22:05*	*1*
DCB Decachlorobiphenyl	*28*	*X*	*30 - 150*	*06/28/18 09:20*	*06/29/18 22:05*	*1*
DCB Decachlorobiphenyl	*29*	*X*	*30 - 150*	*06/28/18 09:20*	*06/29/18 22:05*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44065-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(45-125)	(45-125)
200-44065-1	SSHS-B1195-SUB-0-2	80	87	108	129 X
200-44065-2	SSHS-B1069-SUB-0-2	87	91	69	75
200-44065-3	SSHS-B1192-SUB-0-2	94	100	115	121
200-44065-4	SSHS-B1067-SUB-0-2	84	90	93	96
200-44065-5	FD-3	80	84	82	85
LCS 200-131301/2-C	Lab Control Sample	77	76	83	85
MB 200-131301/1-C	Method Blank	85	86	86	89

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(55-120)	(55-120)	(30-150)	(30-150)
200-44065-6	EB-3	80	78	28 X	29 X
LCS 200-131241/2-A	Lab Control Sample	85	83	77	73
LCSD 200-131241/3-A	Lab Control Sample Dup	81	79	74	76
MB 200-131241/1-A	Method Blank	72	73	63	61

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 200-131241/1-A
Matrix: Water
Analysis Batch: 131325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1221	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1232	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1242	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1248	ND		0.50	0.057	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1254	ND		0.50	0.024	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1260	ND		0.50	0.024	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1262	ND		0.50	0.024	ug/L		06/28/18 09:20	06/29/18 20:43	1
PCB-1268	ND		0.50	0.024	ug/L		06/28/18 09:20	06/29/18 20:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*55 - 120*	*06/28/18 09:20*	*06/29/18 20:43*	*1*
Tetrachloro-m-xylene	*73*		*55 - 120*	*06/28/18 09:20*	*06/29/18 20:43*	*1*
DCB Decachlorobiphenyl	*63*		*30 - 150*	*06/28/18 09:20*	*06/29/18 20:43*	*1*
DCB Decachlorobiphenyl	*61*		*30 - 150*	*06/28/18 09:20*	*06/29/18 20:43*	*1*

Lab Sample ID: LCS 200-131241/2-A
Matrix: Water
Analysis Batch: 131325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131241

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.00	4.26		ug/L		85	55 - 120		
PCB-1260			5.00	3.93		ug/L		79	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*55 - 120*
Tetrachloro-m-xylene	*83*		*55 - 120*
DCB Decachlorobiphenyl	*77*		*30 - 150*
DCB Decachlorobiphenyl	*73*		*30 - 150*

Lab Sample ID: LCSD 200-131241/3-A
Matrix: Water
Analysis Batch: 131325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131241

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.00	4.18		ug/L		84	55 - 120	2	30
PCB-1260			5.00	3.97		ug/L		79	60 - 125	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*55 - 120*
Tetrachloro-m-xylene	*79*		*55 - 120*
DCB Decachlorobiphenyl	*74*		*30 - 150*
DCB Decachlorobiphenyl	*76*		*30 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 200-131301/1-C
Matrix: Solid
Analysis Batch: 131325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	2.8	ug/Kg		06/29/18 11:37	06/29/18 16:36	1
PCB-1221	ND		17	2.8	ug/Kg		06/29/18 11:37	06/29/18 16:36	1
PCB-1232	ND		17	2.8	ug/Kg		06/29/18 11:37	06/29/18 16:36	1
PCB-1242	ND		17	2.8	ug/Kg		06/29/18 11:37	06/29/18 16:36	1
PCB-1248	ND		17	2.8	ug/Kg		06/29/18 11:37	06/29/18 16:36	1
PCB-1254	ND		17	2.8	ug/Kg		06/29/18 11:37	06/29/18 16:36	1
PCB-1260	ND		17	2.8	ug/Kg		06/29/18 11:37	06/29/18 16:36	1
PCB-1262	ND		17	2.8	ug/Kg		06/29/18 11:37	06/29/18 16:36	1
PCB-1268	ND		17	2.8	ug/Kg		06/29/18 11:37	06/29/18 16:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*30 - 130*	*06/29/18 11:37*	*06/29/18 16:36*	*1*
Tetrachloro-m-xylene	*86*		*30 - 130*	*06/29/18 11:37*	*06/29/18 16:36*	*1*
DCB Decachlorobiphenyl	*86*		*45 - 125*	*06/29/18 11:37*	*06/29/18 16:36*	*1*
DCB Decachlorobiphenyl	*89*		*45 - 125*	*06/29/18 11:37*	*06/29/18 16:36*	*1*

Lab Sample ID: LCS 200-131301/2-C
Matrix: Solid
Analysis Batch: 131325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131301

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	126		ug/Kg		76	55 - 120		
PCB-1260			167	131		ug/Kg		78	55 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*30 - 130*
Tetrachloro-m-xylene	*76*		*30 - 130*
DCB Decachlorobiphenyl	*83*		*45 - 125*
DCB Decachlorobiphenyl	*85*		*45 - 125*

GC Semi VOA

Prep Batch: 131241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44065-6	EB-3	Total/NA	Water	3510C	
MB 200-131241/1-A	Method Blank	Total/NA	Water	3510C	
LCS 200-131241/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 200-131241/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 131301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44065-1	SSHS-B1195-SUB-0-2	Total/NA	Solid	3541	
200-44065-2	SSHS-B1069-SUB-0-2	Total/NA	Solid	3541	
200-44065-3	SSHS-B1192-SUB-0-2	Total/NA	Solid	3541	
200-44065-4	SSHS-B1067-SUB-0-2	Total/NA	Solid	3541	
200-44065-5	FD-3	Total/NA	Solid	3541	
MB 200-131301/1-C	Method Blank	Total/NA	Solid	3541	
LCS 200-131301/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 131325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44065-6	EB-3	Total/NA	Water	8082A	131241
MB 200-131241/1-A	Method Blank	Total/NA	Water	8082A	131241
MB 200-131301/1-C	Method Blank	Total/NA	Solid	8082A	131330
LCS 200-131241/2-A	Lab Control Sample	Total/NA	Water	8082A	131241
LCS 200-131301/2-C	Lab Control Sample	Total/NA	Solid	8082A	131330
LCSD 200-131241/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	131241

Cleanup Batch: 131328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44065-1	SSHS-B1195-SUB-0-2	Total/NA	Solid	3665A	131301
200-44065-2	SSHS-B1069-SUB-0-2	Total/NA	Solid	3665A	131301
200-44065-3	SSHS-B1192-SUB-0-2	Total/NA	Solid	3665A	131301
200-44065-4	SSHS-B1067-SUB-0-2	Total/NA	Solid	3665A	131301
200-44065-5	FD-3	Total/NA	Solid	3665A	131301
MB 200-131301/1-C	Method Blank	Total/NA	Solid	3665A	131301
LCS 200-131301/2-C	Lab Control Sample	Total/NA	Solid	3665A	131301

Cleanup Batch: 131330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44065-1	SSHS-B1195-SUB-0-2	Total/NA	Solid	3660B	131328
200-44065-2	SSHS-B1069-SUB-0-2	Total/NA	Solid	3660B	131328
200-44065-3	SSHS-B1192-SUB-0-2	Total/NA	Solid	3660B	131328
200-44065-4	SSHS-B1067-SUB-0-2	Total/NA	Solid	3660B	131328
200-44065-5	FD-3	Total/NA	Solid	3660B	131328
MB 200-131301/1-C	Method Blank	Total/NA	Solid	3660B	131328
LCS 200-131301/2-C	Lab Control Sample	Total/NA	Solid	3660B	131328

Analysis Batch: 131402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44065-1	SSHS-B1195-SUB-0-2	Total/NA	Solid	8082A	131330
200-44065-2	SSHS-B1069-SUB-0-2	Total/NA	Solid	8082A	131330
200-44065-3	SSHS-B1192-SUB-0-2	Total/NA	Solid	8082A	131330
200-44065-4	SSHS-B1067-SUB-0-2	Total/NA	Solid	8082A	131330
200-44065-5	FD-3	Total/NA	Solid	8082A	131330

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44065-1

General Chemistry

Analysis Batch: 131237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44065-1	SSHS-B1195-SUB-0-2	Total/NA	Solid	Moisture	
200-44065-2	SSHS-B1069-SUB-0-2	Total/NA	Solid	Moisture	
200-44065-3	SSHS-B1192-SUB-0-2	Total/NA	Solid	Moisture	
200-44065-4	SSHS-B1067-SUB-0-2	Total/NA	Solid	Moisture	
200-44065-5	FD-3	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44065-1

Client Sample ID: SSHS-B1195-SUB-0-2
Lab Sample ID: 200-44065-1
Date Collected: 06/26/18 14:50
Matrix: Solid
Date Received: 06/27/18 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131237	06/27/18 20:23	EEJ	TAL BUR

Client Sample ID: SSHS-B1195-SUB-0-2
Lab Sample ID: 200-44065-1
Date Collected: 06/26/18 14:50
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131301	06/29/18 11:37	SAC	TAL BUR
Total/NA	Cleanup	3665A			131328	06/29/18 15:15	HCK	TAL BUR
Total/NA	Cleanup	3660B			131330	06/29/18 15:30	HCK	TAL BUR
Total/NA	Analysis	8082A		200	131402	07/03/18 05:32	RRM	TAL BUR

Client Sample ID: SSHS-B1069-SUB-0-2
Lab Sample ID: 200-44065-2
Date Collected: 06/26/18 15:30
Matrix: Solid
Date Received: 06/27/18 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131237	06/27/18 20:23	EEJ	TAL BUR

Client Sample ID: SSHS-B1069-SUB-0-2
Lab Sample ID: 200-44065-2
Date Collected: 06/26/18 15:30
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131301	06/29/18 11:37	SAC	TAL BUR
Total/NA	Cleanup	3665A			131328	06/29/18 15:15	HCK	TAL BUR
Total/NA	Cleanup	3660B			131330	06/29/18 15:30	HCK	TAL BUR
Total/NA	Analysis	8082A		1	131402	07/03/18 05:48	RRM	TAL BUR

Client Sample ID: SSHS-B1192-SUB-0-2
Lab Sample ID: 200-44065-3
Date Collected: 06/26/18 16:00
Matrix: Solid
Date Received: 06/27/18 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131237	06/27/18 20:23	EEJ	TAL BUR

Client Sample ID: SSHS-B1192-SUB-0-2
Lab Sample ID: 200-44065-3
Date Collected: 06/26/18 16:00
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131301	06/29/18 11:37	SAC	TAL BUR
Total/NA	Cleanup	3665A			131328	06/29/18 15:15	HCK	TAL BUR

Client Sample ID: SSHS-B1192-SUB-0-2

Lab Sample ID: 200-44065-3
Date Collected: 06/26/18 16:00
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3660B			131330	06/29/18 15:30	HCK	TAL BUR
Total/NA	Analysis	8082A		20	131402	07/03/18 06:04	RRM	TAL BUR

Client Sample ID: SSHS-B1067-SUB-0-2

Lab Sample ID: 200-44065-4
Date Collected: 06/26/18 16:30
Matrix: Solid
Date Received: 06/27/18 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131237	06/27/18 20:23	EEJ	TAL BUR

Client Sample ID: SSHS-B1067-SUB-0-2

Lab Sample ID: 200-44065-4
Date Collected: 06/26/18 16:30
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131301	06/29/18 11:37	SAC	TAL BUR
Total/NA	Cleanup	3665A			131328	06/29/18 15:15	HCK	TAL BUR
Total/NA	Cleanup	3660B			131330	06/29/18 15:30	HCK	TAL BUR
Total/NA	Analysis	8082A		5	131402	07/03/18 06:21	RRM	TAL BUR

Client Sample ID: FD-3

Lab Sample ID: 200-44065-5
Date Collected: 06/26/18 00:00
Matrix: Solid
Date Received: 06/27/18 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131237	06/27/18 20:23	EEJ	TAL BUR

Client Sample ID: FD-3

Lab Sample ID: 200-44065-5
Date Collected: 06/26/18 00:00
Matrix: Solid
Date Received: 06/27/18 10:20
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131301	06/29/18 11:37	SAC	TAL BUR
Total/NA	Cleanup	3665A			131328	06/29/18 15:15	HCK	TAL BUR
Total/NA	Cleanup	3660B			131330	06/29/18 15:30	HCK	TAL BUR
Total/NA	Analysis	8082A		5	131402	07/03/18 06:37	RRM	TAL BUR

Client Sample ID: EB-3

Lab Sample ID: 200-44065-6
Date Collected: 06/25/18 18:00
Matrix: Water
Date Received: 06/27/18 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			131241	06/28/18 09:20	HCK	TAL BUR

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44065-1

Client Sample ID: EB-3
Date Collected: 06/25/18 18:00
Date Received: 06/27/18 10:20

Lab Sample ID: 200-44065-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		1	131325	06/29/18 22:05	BHOK	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 200-44065-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10391	04-01-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44065-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUR
Moisture	Percent Moisture	EPA	TAL BUR
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUR
3541	Automated Soxhlet Extraction	SW846	TAL BUR
3660B	Sulfur Cleanup	SW846	TAL BUR
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL BUR

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 BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-44065-1	SSHS-B1195-SUB-0-2	Solid	06/26/18 14:50	06/27/18 10:20
200-44065-2	SSHS-B1069-SUB-0-2	Solid	06/26/18 15:30	06/27/18 10:20
200-44065-3	SSHS-B1192-SUB-0-2	Solid	06/26/18 16:00	06/27/18 10:20
200-44065-4	SSHS-B1067-SUB-0-2	Solid	06/26/18 16:30	06/27/18 10:20
200-44065-5	FD-3	Solid	06/26/18 00:00	06/27/18 10:20
200-44065-6	EB-3	Water	06/25/18 18:00	06/27/18 10:20

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 6/26/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	PCBs - 8082A, LL	Sample Specific Notes:
SSHS-B1195-SUB-0-2	6/26/18	1450	C	S	2			X		
SSHS-B1069-SUB-0-2		1530	C	S	2			X		
SSHS-B1142-SUB-0-2		1600	C	S	2			X		
SSHS-B1067-SUB-0-2		1630	C	S	2			X		
FD-3		X	C	S	2			X		
EB-3	6/25/18	1800	C	W	3				X	

200-44065 Chain of Custody

JT 6/26/18

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geosyntec	6/26/18 1900			
			Received in Laboratory by: [signature]	Company: TA3R	Date/Time: 6/27/18 1020

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Do N

ORIGIN ID:ELMA (651) 356-5799
MATT SCHALLINGER
GEO SYNTEC
5008 16TH AVE S

MINNEAPOLIS, MN 55417
UNITED STATES US

SHIP DATE: 26JUN18
ACTWGT: 50.90 LB
CAD: 006998274/SSFE1904
DIMS: 24x14x13 IN

BILL THIRD PARTY

Part # 156297-435 RRDW EXP 01/19

TO KATHRYN KELLY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
S BURLINGTON VT 05403

(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx Express

E

J181118012601uv

2 of 2

MPS# 0263 7815 9981 9550

Mstr# 7815 9981 9540 0201

WED - 27 JUN 10:30A
PRIORITY OVERNIGHT

XH BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 200-44065-1

Login Number: 44065
List Number: 1
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	428584
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	5.9ºC
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-44116-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/13/2018 11:54:10 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44116-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Job ID: 200-44116-1

Laboratory: TestAmerica Burlington

Narrative

Job Narrative
200-44116-1

Receipt
The samples were received on 6/29/2018 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9º C and 5.1º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-B1066-SUB-0-2 (200-44116-4) and SSHS-B1212-SUB-4-6 (200-44116-5). The surrogates for sample SSHS-B1212-SUB-4-6 (200-44116-5) should be considered diluted out. Elevated reporting limits (RLs) are provided.

Method(s) 8082A: Sample EB-4 (200-44116-1), SSHS-B1188-SUB-0-2 (200-44116-3), and EB-5 (200-44116-6) had the recovery of a surrogate decachlorobiphenyl below the control limits on both columns. The recoveries of surrogate tetrachloro-m-xylene were within the control limits on both columns.

Method(s) 8082A: The following continuing calibration verifications (CCVs) have chromatographic interferences that adversely impacts the identification and quantitation of the surrogate Decachlorobiphenyl: (CCV 200-131402/8 and CCV 200-131506/9). Decachlorobiphenyl is a component in Aroclor-1268. This interference is limited to this CCV and does not impact the sample analysis.

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

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

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44116-1

Client Sample ID: EB-4 — Lab Sample ID: 200-44116-1

No Detections.

Client Sample ID: SSHS-B1065-SUB-0-2 — Lab Sample ID: 200-44116-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	110		19	3.1	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	70		19	3.1	ug/Kg	1	☼	8082A	Total/NA
PCB-1260	40		19	3.1	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: SSHS-B1188-SUB-0-2 — Lab Sample ID: 200-44116-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	79		26	4.4	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	50		26	4.4	ug/Kg	1	☼	8082A	Total/NA
PCB-1260	15	J	26	4.4	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: SSHS-B1066-SUB-0-2 — Lab Sample ID: 200-44116-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	4500		830	140	ug/Kg	40	☼	8082A	Total/NA
PCB-1254	2400		830	140	ug/Kg	40	☼	8082A	Total/NA
PCB-1260	510	J	830	140	ug/Kg	40	☼	8082A	Total/NA

Client Sample ID: SSHS-B1212-SUB-4-6 — Lab Sample ID: 200-44116-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	100000		19000	3200	ug/Kg	1000	☼	8082A	Total/NA

Client Sample ID: EB-5 — Lab Sample ID: 200-44116-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EB-4

Lab Sample ID: 200-44116-1
Date Collected: 06/26/18 16:00
Matrix: Water
Date Received: 06/29/18 10:15

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 16:28	1
PCB-1221	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 16:28	1
PCB-1232	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 16:28	1
PCB-1242	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 16:28	1
PCB-1248	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 16:28	1
PCB-1254	ND		0.50	0.024	ug/L		07/03/18 08:26	07/06/18 16:28	1
PCB-1260	ND		0.50	0.024	ug/L		07/03/18 08:26	07/06/18 16:28	1
PCB-1262	ND		0.50	0.024	ug/L		07/03/18 08:26	07/06/18 16:28	1
PCB-1268	ND		0.50	0.024	ug/L		07/03/18 08:26	07/06/18 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*55 - 120*	*07/03/18 08:26*	*07/06/18 16:28*	*1*
Tetrachloro-m-xylene	*63*		*55 - 120*	*07/03/18 08:26*	*07/06/18 16:28*	*1*
DCB Decachlorobiphenyl	*14*	*X*	*30 - 150*	*07/03/18 08:26*	*07/06/18 16:28*	*1*
DCB Decachlorobiphenyl	*16*	*X*	*30 - 150*	*07/03/18 08:26*	*07/06/18 16:28*	*1*

Client Sample ID: SSHS-B1065-SUB-0-2

Lab Sample ID: 200-44116-2
Date Collected: 06/27/18 09:30
Matrix: Solid
Date Received: 06/29/18 10:15
Percent Solids: 90.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	3.1	ug/Kg	☼	07/02/18 08:26	07/03/18 02:15	1
PCB-1221	ND		19	3.1	ug/Kg	☼	07/02/18 08:26	07/03/18 02:15	1
PCB-1232	ND		19	3.1	ug/Kg	☼	07/02/18 08:26	07/03/18 02:15	1
PCB-1242	ND		19	3.1	ug/Kg	☼	07/02/18 08:26	07/03/18 02:15	1
PCB-1248	**110**		19	3.1	ug/Kg	☼	07/02/18 08:26	07/03/18 02:15	1
PCB-1254	**70**		19	3.1	ug/Kg	☼	07/02/18 08:26	07/03/18 02:15	1
PCB-1260	**40**		19	3.1	ug/Kg	☼	07/02/18 08:26	07/03/18 02:15	1
PCB-1262	ND		19	3.1	ug/Kg	☼	07/02/18 08:26	07/03/18 02:15	1
PCB-1268	ND		19	3.1	ug/Kg	☼	07/02/18 08:26	07/03/18 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 130*	*07/02/18 08:26*	*07/03/18 02:15*	*1*
Tetrachloro-m-xylene	*76*		*30 - 130*	*07/02/18 08:26*	*07/03/18 02:15*	*1*
DCB Decachlorobiphenyl	*59*		*45 - 125*	*07/02/18 08:26*	*07/03/18 02:15*	*1*
DCB Decachlorobiphenyl	*65*		*45 - 125*	*07/02/18 08:26*	*07/03/18 02:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**90.5**		0.3	0.3	%			07/02/18 11:44	1

Client Sample ID: SSHS-B1188-SUB-0-2

Lab Sample ID: 200-44116-3
Date Collected: 06/27/18 10:30
Matrix: Solid
Date Received: 06/29/18 10:15
Percent Solids: 64.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		26	4.4	ug/Kg	☼	07/02/18 08:26	07/03/18 03:04	1
PCB-1221	ND		26	4.4	ug/Kg	☼	07/02/18 08:26	07/03/18 03:04	1

Client Sample ID: SSHS-B1188-SUB-0-2

Date Collected: 06/27/18 10:30
Date Received: 06/29/18 10:15

Lab Sample ID: 200-44116-3

Matrix: Solid
Percent Solids: 64.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		26	4.4	ug/Kg	☼	07/02/18 08:26	07/03/18 03:04	1
PCB-1242	ND		26	4.4	ug/Kg	☼	07/02/18 08:26	07/03/18 03:04	1
PCB-1248	**79**		26	4.4	ug/Kg	☼	07/02/18 08:26	07/03/18 03:04	1
PCB-1254	**50**		26	4.4	ug/Kg	☼	07/02/18 08:26	07/03/18 03:04	1
PCB-1260	**15**	**J**	26	4.4	ug/Kg	☼	07/02/18 08:26	07/03/18 03:04	1
PCB-1262	ND		26	4.4	ug/Kg	☼	07/02/18 08:26	07/03/18 03:04	1
PCB-1268	ND		26	4.4	ug/Kg	☼	07/02/18 08:26	07/03/18 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 130*	*07/02/18 08:26*	*07/03/18 03:04*	*1*
Tetrachloro-m-xylene	*68*		*30 - 130*	*07/02/18 08:26*	*07/03/18 03:04*	*1*
DCB Decachlorobiphenyl	*32*	*X*	*45 - 125*	*07/02/18 08:26*	*07/03/18 03:04*	*1*
DCB Decachlorobiphenyl	*42*	*X*	*45 - 125*	*07/02/18 08:26*	*07/03/18 03:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**64.4**		0.3	0.3	%			07/02/18 11:44	1

Client Sample ID: SSHS-B1066-SUB-0-2

Date Collected: 06/27/18 11:15
Date Received: 06/29/18 10:15

Lab Sample ID: 200-44116-4

Matrix: Solid
Percent Solids: 79.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		830	140	ug/Kg	☼	07/02/18 08:26	07/03/18 03:20	40
PCB-1221	ND		830	140	ug/Kg	☼	07/02/18 08:26	07/03/18 03:20	40
PCB-1232	ND		830	140	ug/Kg	☼	07/02/18 08:26	07/03/18 03:20	40
PCB-1242	ND		830	140	ug/Kg	☼	07/02/18 08:26	07/03/18 03:20	40
PCB-1248	**4500**		830	140	ug/Kg	☼	07/02/18 08:26	07/03/18 03:20	40
PCB-1254	**2400**		830	140	ug/Kg	☼	07/02/18 08:26	07/03/18 03:20	40
PCB-1260	**510**	**J**	830	140	ug/Kg	☼	07/02/18 08:26	07/03/18 03:20	40
PCB-1262	ND		830	140	ug/Kg	☼	07/02/18 08:26	07/03/18 03:20	40
PCB-1268	ND		830	140	ug/Kg	☼	07/02/18 08:26	07/03/18 03:20	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 130*	*07/02/18 08:26*	*07/03/18 03:20*	*40*
Tetrachloro-m-xylene	*71*		*30 - 130*	*07/02/18 08:26*	*07/03/18 03:20*	*40*
DCB Decachlorobiphenyl	*78*		*45 - 125*	*07/02/18 08:26*	*07/03/18 03:20*	*40*
DCB Decachlorobiphenyl	*83*		*45 - 125*	*07/02/18 08:26*	*07/03/18 03:20*	*40*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**79.8**		0.3	0.3	%			07/02/18 11:44	1

Client Sample ID: SSHS-B1212-SUB-4-6

Date Collected: 06/27/18 15:00
Date Received: 06/29/18 10:15

Lab Sample ID: 200-44116-5

Matrix: Solid
Percent Solids: 87.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19000	3200	ug/Kg	☼	07/02/18 08:26	07/03/18 03:37	1000

Client Sample ID: SSHS-B1212-SUB-4-6

Date Collected: 06/27/18 15:00
Date Received: 06/29/18 10:15

Lab Sample ID: 200-44116-5

Matrix: Solid
Percent Solids: 87.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		19000	3200	ug/Kg	☼	07/02/18 08:26	07/03/18 03:37	1000
PCB-1232	ND		19000	3200	ug/Kg	☼	07/02/18 08:26	07/03/18 03:37	1000
PCB-1242	ND		19000	3200	ug/Kg	☼	07/02/18 08:26	07/03/18 03:37	1000
PCB-1248	**100000**		19000	3200	ug/Kg	☼	07/02/18 08:26	07/03/18 03:37	1000
PCB-1254	ND		19000	3200	ug/Kg	☼	07/02/18 08:26	07/03/18 03:37	1000
PCB-1260	ND		19000	3200	ug/Kg	☼	07/02/18 08:26	07/03/18 03:37	1000
PCB-1262	ND		19000	3200	ug/Kg	☼	07/02/18 08:26	07/03/18 03:37	1000
PCB-1268	ND		19000	3200	ug/Kg	☼	07/02/18 08:26	07/03/18 03:37	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*30 - 130*	*07/02/18 08:26*	*07/03/18 03:37*	*1000*
Tetrachloro-m-xylene	*90*		*30 - 130*	*07/02/18 08:26*	*07/03/18 03:37*	*1000*
DCB Decachlorobiphenyl	*115*		*45 - 125*	*07/02/18 08:26*	*07/03/18 03:37*	*1000*
DCB Decachlorobiphenyl	*142*	*X*	*45 - 125*	*07/02/18 08:26*	*07/03/18 03:37*	*1000*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**87.7**		0.3	0.3	%			07/02/18 11:44	1

Client Sample ID: EB-5

Date Collected: 06/27/18 16:00
Date Received: 06/29/18 10:15

Lab Sample ID: 200-44116-6

Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.056	ug/L		07/03/18 08:26	07/06/18 16:45	1
PCB-1221	ND		0.49	0.056	ug/L		07/03/18 08:26	07/06/18 16:45	1
PCB-1232	ND		0.49	0.056	ug/L		07/03/18 08:26	07/06/18 16:45	1
PCB-1242	ND		0.49	0.056	ug/L		07/03/18 08:26	07/06/18 16:45	1
PCB-1248	ND		0.49	0.056	ug/L		07/03/18 08:26	07/06/18 16:45	1
PCB-1254	ND		0.49	0.023	ug/L		07/03/18 08:26	07/06/18 16:45	1
PCB-1260	ND		0.49	0.023	ug/L		07/03/18 08:26	07/06/18 16:45	1
PCB-1262	ND		0.49	0.023	ug/L		07/03/18 08:26	07/06/18 16:45	1
PCB-1268	ND		0.49	0.023	ug/L		07/03/18 08:26	07/06/18 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*55 - 120*	*07/03/18 08:26*	*07/06/18 16:45*	*1*
Tetrachloro-m-xylene	*64*		*55 - 120*	*07/03/18 08:26*	*07/06/18 16:45*	*1*
DCB Decachlorobiphenyl	*15*	*X*	*30 - 150*	*07/03/18 08:26*	*07/06/18 16:45*	*1*
DCB Decachlorobiphenyl	*17*	*X*	*30 - 150*	*07/03/18 08:26*	*07/06/18 16:45*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44116-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(45-125)	(45-125)
200-44116-2	SSHS-B1065-SUB-0-2	74	76	59	65
200-44116-2 MS	SSHS-B1065-SUB-0-2	76	80	71	78
200-44116-2 MSD	SSHS-B1065-SUB-0-2	68	65	72	73
200-44116-3	SSHS-B1188-SUB-0-2	63	68	32 X	42 X
200-44116-4	SSHS-B1066-SUB-0-2	65	71	78	83
200-44116-5	SSHS-B1212-SUB-4-6	78	90	115	142 X
LCS 200-131351/2-C	Lab Control Sample	72	73	70	74
MB 200-131351/1-C	Method Blank	70	74	70	78

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(55-120)	(55-120)	(30-150)	(30-150)
200-44116-1	EB-4	62	63	14 X	16 X
200-44116-6	EB-5	61	64	15 X	17 X
LCS 200-131405/2-A	Lab Control Sample	63	63	62	69
LCSD 200-131405/3-A	Lab Control Sample Dup	60	60	61	69
MB 200-131405/1-A	Method Blank	61	61	76	83

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 200-131351/1-C
Matrix: Solid
Analysis Batch: 131402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	2.8	ug/Kg		07/02/18 08:26	07/03/18 01:42	1
PCB-1221	ND		17	2.8	ug/Kg		07/02/18 08:26	07/03/18 01:42	1
PCB-1232	ND		17	2.8	ug/Kg		07/02/18 08:26	07/03/18 01:42	1
PCB-1242	ND		17	2.8	ug/Kg		07/02/18 08:26	07/03/18 01:42	1
PCB-1248	ND		17	2.8	ug/Kg		07/02/18 08:26	07/03/18 01:42	1
PCB-1254	ND		17	2.8	ug/Kg		07/02/18 08:26	07/03/18 01:42	1
PCB-1260	ND		17	2.8	ug/Kg		07/02/18 08:26	07/03/18 01:42	1
PCB-1262	ND		17	2.8	ug/Kg		07/02/18 08:26	07/03/18 01:42	1
PCB-1268	ND		17	2.8	ug/Kg		07/02/18 08:26	07/03/18 01:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*30 - 130*	*07/02/18 08:26*	*07/03/18 01:42*	*1*
Tetrachloro-m-xylene	*74*		*30 - 130*	*07/02/18 08:26*	*07/03/18 01:42*	*1*
DCB Decachlorobiphenyl	*70*		*45 - 125*	*07/02/18 08:26*	*07/03/18 01:42*	*1*
DCB Decachlorobiphenyl	*78*		*45 - 125*	*07/02/18 08:26*	*07/03/18 01:42*	*1*

Lab Sample ID: LCS 200-131351/2-C
Matrix: Solid
Analysis Batch: 131402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131351

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	120		ug/Kg		72	55 - 120		
PCB-1260			167	116		ug/Kg		70	55 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*30 - 130*
Tetrachloro-m-xylene	*73*		*30 - 130*
DCB Decachlorobiphenyl	*70*		*45 - 125*
DCB Decachlorobiphenyl	*74*		*45 - 125*

Lab Sample ID: 200-44116-2 MS
Matrix: Solid
Analysis Batch: 131402

Client Sample ID: SSHS-B1065-SUB-0-2
Prep Type: Total/NA
Prep Batch: 131351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		180	162		ug/Kg	☼	90	55 - 120		
PCB-1260	40		180	170		ug/Kg	☼	72	55 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*30 - 130*
Tetrachloro-m-xylene	*80*		*30 - 130*
DCB Decachlorobiphenyl	*71*		*45 - 125*
DCB Decachlorobiphenyl	*78*		*45 - 125*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 200-44116-2 MSD
Matrix: Solid
Analysis Batch: 131402

Client Sample ID: SSHS-B1065-SUB-0-2
Prep Type: Total/NA
Prep Batch: 131351

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		187	145		ug/Kg	☼	78	55 - 120	11	30
PCB-1260	40		187	164		ug/Kg	☼	66	55 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*68*		*30 - 130*
Tetrachloro-m-xylene	*65*		*30 - 130*
DCB Decachlorobiphenyl	*72*		*45 - 125*
DCB Decachlorobiphenyl	*73*		*45 - 125*

Lab Sample ID: MB 200-131405/1-A
Matrix: Water
Analysis Batch: 131506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 15:39	1
PCB-1221	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 15:39	1
PCB-1232	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 15:39	1
PCB-1242	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 15:39	1
PCB-1248	ND		0.50	0.057	ug/L		07/03/18 08:26	07/06/18 15:39	1
PCB-1254	ND		0.50	0.024	ug/L		07/03/18 08:26	07/06/18 15:39	1
PCB-1260	ND		0.50	0.024	ug/L		07/03/18 08:26	07/06/18 15:39	1
PCB-1262	ND		0.50	0.024	ug/L		07/03/18 08:26	07/06/18 15:39	1
PCB-1268	ND		0.50	0.024	ug/L		07/03/18 08:26	07/06/18 15:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*55 - 120*	*07/03/18 08:26*	*07/06/18 15:39*	*1*
Tetrachloro-m-xylene	*61*		*55 - 120*	*07/03/18 08:26*	*07/06/18 15:39*	*1*
DCB Decachlorobiphenyl	*76*		*30 - 150*	*07/03/18 08:26*	*07/06/18 15:39*	*1*
DCB Decachlorobiphenyl	*83*		*30 - 150*	*07/03/18 08:26*	*07/06/18 15:39*	*1*

Lab Sample ID: LCS 200-131405/2-A
Matrix: Water
Analysis Batch: 131506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131405

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.00	4.17		ug/L		83	55 - 120		
PCB-1260			5.00	3.85		ug/L		77	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*55 - 120*
Tetrachloro-m-xylene	*63*		*55 - 120*
DCB Decachlorobiphenyl	*62*		*30 - 150*
DCB Decachlorobiphenyl	*69*		*30 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 200-131405/3-A
Matrix: Water
Analysis Batch: 131506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131405

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.00	3.65		ug/L		73	55 - 120	13	30
PCB-1260			5.00	3.42		ug/L		68	60 - 125	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*55 - 120*
Tetrachloro-m-xylene	*60*		*55 - 120*
DCB Decachlorobiphenyl	*61*		*30 - 150*
DCB Decachlorobiphenyl	*69*		*30 - 150*

Method: Moisture - Percent Moisture

Lab Sample ID: 200-44116-2 DU
Matrix: Solid
Analysis Batch: 131379

Client Sample ID: SSHS-B1065-SUB-0-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	90.5			89.6		%				1	20

GC Semi VOA

Prep Batch: 131351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44116-2	SSHS-B1065-SUB-0-2	Total/NA	Solid	3541	
200-44116-3	SSHS-B1188-SUB-0-2	Total/NA	Solid	3541	
200-44116-4	SSHS-B1066-SUB-0-2	Total/NA	Solid	3541	
200-44116-5	SSHS-B1212-SUB-4-6	Total/NA	Solid	3541	
MB 200-131351/1-C	Method Blank	Total/NA	Solid	3541	
LCS 200-131351/2-C	Lab Control Sample	Total/NA	Solid	3541	
200-44116-2 MS	SSHS-B1065-SUB-0-2	Total/NA	Solid	3541	
200-44116-2 MSD	SSHS-B1065-SUB-0-2	Total/NA	Solid	3541	

Cleanup Batch: 131382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44116-2	SSHS-B1065-SUB-0-2	Total/NA	Solid	3665A	131351
200-44116-3	SSHS-B1188-SUB-0-2	Total/NA	Solid	3665A	131351
200-44116-4	SSHS-B1066-SUB-0-2	Total/NA	Solid	3665A	131351
200-44116-5	SSHS-B1212-SUB-4-6	Total/NA	Solid	3665A	131351
MB 200-131351/1-C	Method Blank	Total/NA	Solid	3665A	131351
LCS 200-131351/2-C	Lab Control Sample	Total/NA	Solid	3665A	131351
200-44116-2 MS	SSHS-B1065-SUB-0-2	Total/NA	Solid	3665A	131351
200-44116-2 MSD	SSHS-B1065-SUB-0-2	Total/NA	Solid	3665A	131351

Cleanup Batch: 131383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44116-2	SSHS-B1065-SUB-0-2	Total/NA	Solid	3660B	131382
200-44116-3	SSHS-B1188-SUB-0-2	Total/NA	Solid	3660B	131382
200-44116-4	SSHS-B1066-SUB-0-2	Total/NA	Solid	3660B	131382
200-44116-5	SSHS-B1212-SUB-4-6	Total/NA	Solid	3660B	131382
MB 200-131351/1-C	Method Blank	Total/NA	Solid	3660B	131382
LCS 200-131351/2-C	Lab Control Sample	Total/NA	Solid	3660B	131382
200-44116-2 MS	SSHS-B1065-SUB-0-2	Total/NA	Solid	3660B	131382
200-44116-2 MSD	SSHS-B1065-SUB-0-2	Total/NA	Solid	3660B	131382

Analysis Batch: 131402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44116-2	SSHS-B1065-SUB-0-2	Total/NA	Solid	8082A	131383
200-44116-3	SSHS-B1188-SUB-0-2	Total/NA	Solid	8082A	131383
200-44116-4	SSHS-B1066-SUB-0-2	Total/NA	Solid	8082A	131383
200-44116-5	SSHS-B1212-SUB-4-6	Total/NA	Solid	8082A	131383
MB 200-131351/1-C	Method Blank	Total/NA	Solid	8082A	131383
LCS 200-131351/2-C	Lab Control Sample	Total/NA	Solid	8082A	131383
200-44116-2 MS	SSHS-B1065-SUB-0-2	Total/NA	Solid	8082A	131383
200-44116-2 MSD	SSHS-B1065-SUB-0-2	Total/NA	Solid	8082A	131383

Prep Batch: 131405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44116-1	EB-4	Total/NA	Water	3510C	
200-44116-6	EB-5	Total/NA	Water	3510C	
MB 200-131405/1-A	Method Blank	Total/NA	Water	3510C	
LCS 200-131405/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 200-131405/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Analysis Batch: 131506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44116-1	EB-4	Total/NA	Water	8082A	131405
200-44116-6	EB-5	Total/NA	Water	8082A	131405
MB 200-131405/1-A	Method Blank	Total/NA	Water	8082A	131405
LCS 200-131405/2-A	Lab Control Sample	Total/NA	Water	8082A	131405
LCSD 200-131405/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	131405

General Chemistry

Analysis Batch: 131379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-44116-2	SSHS-B1065-SUB-0-2	Total/NA	Solid	Moisture	
200-44116-3	SSHS-B1188-SUB-0-2	Total/NA	Solid	Moisture	
200-44116-4	SSHS-B1066-SUB-0-2	Total/NA	Solid	Moisture	
200-44116-5	SSHS-B1212-SUB-4-6	Total/NA	Solid	Moisture	
200-44116-2 DU	SSHS-B1065-SUB-0-2	Total/NA	Solid	Moisture	

Client Sample ID: EB-4
Lab Sample ID: 200-44116-1
Date Collected: 06/26/18 16:00
Matrix: Water
Date Received: 06/29/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			131405	07/03/18 08:26	SAC	TAL BUR
Total/NA	Analysis	8082A		1	131506	07/06/18 16:28	RRM	TAL BUR

Client Sample ID: SSHS-B1065-SUB-0-2
Lab Sample ID: 200-44116-2
Date Collected: 06/27/18 09:30
Matrix: Solid
Date Received: 06/29/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131379	07/02/18 11:44	CPF	TAL BUR

Client Sample ID: SSHS-B1065-SUB-0-2
Lab Sample ID: 200-44116-2
Date Collected: 06/27/18 09:30
Matrix: Solid
Date Received: 06/29/18 10:15
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131351	07/02/18 08:26	SAC	TAL BUR
Total/NA	Cleanup	3665A			131382	07/02/18 11:30	SAC	TAL BUR
Total/NA	Cleanup	3660B			131383	07/02/18 12:00	SAC	TAL BUR
Total/NA	Analysis	8082A		1	131402	07/03/18 02:15	RRM	TAL BUR

Client Sample ID: SSHS-B1188-SUB-0-2
Lab Sample ID: 200-44116-3
Date Collected: 06/27/18 10:30
Matrix: Solid
Date Received: 06/29/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131379	07/02/18 11:44	CPF	TAL BUR

Client Sample ID: SSHS-B1188-SUB-0-2
Lab Sample ID: 200-44116-3
Date Collected: 06/27/18 10:30
Matrix: Solid
Date Received: 06/29/18 10:15
Percent Solids: 64.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131351	07/02/18 08:26	SAC	TAL BUR
Total/NA	Cleanup	3665A			131382	07/02/18 11:30	SAC	TAL BUR
Total/NA	Cleanup	3660B			131383	07/02/18 12:00	SAC	TAL BUR
Total/NA	Analysis	8082A		1	131402	07/03/18 03:04	RRM	TAL BUR

Client Sample ID: SSHS-B1066-SUB-0-2
Lab Sample ID: 200-44116-4
Date Collected: 06/27/18 11:15
Matrix: Solid
Date Received: 06/29/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131379	07/02/18 11:44	CPF	TAL BUR

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44116-1

Client Sample ID: SSHS-B1066-SUB-0-2

Lab Sample ID: 200-44116-4
Date Collected: 06/27/18 11:15
Matrix: Solid
Date Received: 06/29/18 10:15
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131351	07/02/18 08:26	SAC	TAL BUR
Total/NA	Cleanup	3665A			131382	07/02/18 11:30	SAC	TAL BUR
Total/NA	Cleanup	3660B			131383	07/02/18 12:00	SAC	TAL BUR
Total/NA	Analysis	8082A		40	131402	07/03/18 03:20	RRM	TAL BUR

Client Sample ID: SSHS-B1212-SUB-4-6

Lab Sample ID: 200-44116-5
Date Collected: 06/27/18 15:00
Matrix: Solid
Date Received: 06/29/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	131379	07/02/18 11:44	CPF	TAL BUR

Client Sample ID: SSHS-B1212-SUB-4-6

Lab Sample ID: 200-44116-5
Date Collected: 06/27/18 15:00
Matrix: Solid
Date Received: 06/29/18 10:15
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			131351	07/02/18 08:26	SAC	TAL BUR
Total/NA	Cleanup	3665A			131382	07/02/18 11:30	SAC	TAL BUR
Total/NA	Cleanup	3660B			131383	07/02/18 12:00	SAC	TAL BUR
Total/NA	Analysis	8082A		1000	131402	07/03/18 03:37	RRM	TAL BUR

Client Sample ID: EB-5

Lab Sample ID: 200-44116-6
Date Collected: 06/27/18 16:00
Matrix: Water
Date Received: 06/29/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			131405	07/03/18 08:26	SAC	TAL BUR
Total/NA	Analysis	8082A		1	131506	07/06/18 16:45	RRM	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 200-44116-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10391	04-01-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44116-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUR
Moisture	Percent Moisture	EPA	TAL BUR
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUR
3541	Automated Soxhlet Extraction	SW846	TAL BUR
3660B	Sulfur Cleanup	SW846	TAL BUR
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL BUR

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 BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 200-44116-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-44116-1	EB-4	Water	06/26/18 16:00	06/29/18 10:15
200-44116-2	SSHS-B1065-SUB-0-2	Solid	06/27/18 09:30	06/29/18 10:15
200-44116-3	SSHS-B1188-SUB-0-2	Solid	06/27/18 10:30	06/29/18 10:15
200-44116-4	SSHS-B1066-SUB-0-2	Solid	06/27/18 11:15	06/29/18 10:15
200-44116-5	SSHS-B1212-SUB-4-6	Solid	06/27/18 15:00	06/29/18 10:15
200-44116-6	EB-5	Water	06/27/18 16:00	06/29/18 10:15

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 6/27/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below ____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	PCBs-8082A_LL	Sample Specific Notes:
EB-4	6/26/18	1600	C	W	3	N	N		X	
SSHS-B1065-SUB-0-2	6/27/18	0930	C	S	4	N	Y	X		PS-MS/MSD-1
SSHS-B1188-SUB-0-2		1030	C	S	2	N	N	X		
SSHS-B1066-SUB-0-2		1115	C	S	2	N	N	X		
SSHS-B1212-SUB-4-6		1500	C	S	2	N	N	X		
EB-5	↓	1600	C	W	3	N	N		X	

JT 6/27/18

200-44116 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: GEOSYNTEC	Date/Time: 6/27/18 1500	Received by:	Company: TASR	Date/Time: 6/28/18 1040
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

ORIGIN ID:ELMA (651) 356-5799
MATT SCHALLINGER
GEOSYTEC
100 S WASHINGTON AVE

MINNEAPOLIS, MN 55417
UNITED STATES US

SHIP DATE: 27[illegible]3
ACTWGT: 51.00 LB
CAD: 006998274/SSFE1904
DIMS: 24x14x13 IN

BILL THIRD PARTY

KATHRYN KELLY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
S BURLINGTON VT 05403

(802) 601-9990 REF:

INV:
PO: DEPT:

FedEx Expre

2 of 2

MPS# 7816 1864 8583
0263

Mstr# 7816 1864 8572

0201

THU - 28 JUN 10:30A
PRIORITY OVERNIGHT

XH BTVA

05403
VT-US BTV

Do Not Lift Using This Tag

ORIGIN ID:ELMA (651) 356-5799
MATT SCHALLINGER
GEOSYTEC
100 S WASHINGTON AVE

MINNEAPOLIS, MN 55417
UNITED STATES US

SHIP DATE: 27JUN18
ACTWGT: 44.40 LB
CAD: 006998274/SSFE1904
DIMS: 20x13x13 IN

BILL THIRD PARTY

Part # 156297-435 RRDB EXP 10/18

SHIP TO:
KATHRYN KELLY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
S BURLINGTON VT 05403

(802) 601-9990 REF:
INV:
PO: DEPT:

FedEx Express

J181118012601aw

1 of 2

TRK# 0201 7816 1864 8572

THU - 28 JUN 10:30A
PRIORITY OVERNIGHT

MASTER

XH BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 200-44116-1

Login Number: 44116
List Number: 1
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	034316,482540
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9ºC,5.1ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79394-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/2/2018 2:15:19 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79394-1

Job ID: 180-79394-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79394-1

Receipt
The samples were received on 6/29/2018 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC Semi VOA
Method(s) 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: SSHS-B1229-SUB-2-4 (180-79394-4). The surrogates were diluted out. Elevated reporting limits (RLs) are provided.

Method 8082A: The matrix spike/matrix spike duplicate (MS/MSD) of sample SSHS-B1234-SUB-4-6 (180-79394-1) had the recoveries of aroclor 1260 below the control limits. The The RPD between the spikes and the recovery of the laboratory control sample were within the control limits.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79394-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79394-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79394-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79394-1	SSHS-B1234-SUB-4-6	Solid	06/28/18 13:25	06/29/18 09:20
180-79394-2	SSHS-B1234-SUB-8-10	Solid	06/28/18 13:30	06/29/18 09:20
180-79394-3	SSHS-B1084-SUB-8-10	Solid	06/28/18 14:05	06/29/18 09:20
180-79394-4	SSHS-B1229-SUB-2-4	Solid	06/28/18 15:30	06/29/18 09:20
180-79394-5	SSHS-B1088-SUB-6-8	Solid	06/28/18 15:00	06/29/18 09:20
180-79394-6	SSHS-B1072-SUB-2-4	Solid	06/28/18 16:00	06/29/18 09:20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79394-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79394-1

Client Sample ID: SSHS-B1234-SUB-4-6
Lab Sample ID: 180-79394-1
Date Collected: 06/28/18 13:25
Matrix: Solid
Date Received: 06/29/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249249	07/02/18 10:08	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1234-SUB-4-6
Lab Sample ID: 180-79394-1
Date Collected: 06/28/18 13:25
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249126	06/29/18 15:21	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249174	06/30/18 11:20	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249175	06/30/18 11:22	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1.0 mL	249142	06/30/18 17:57	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1234-SUB-8-10
Lab Sample ID: 180-79394-2
Date Collected: 06/28/18 13:30
Matrix: Solid
Date Received: 06/29/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249249	07/02/18 10:08	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1234-SUB-8-10
Lab Sample ID: 180-79394-2
Date Collected: 06/28/18 13:30
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249126	06/29/18 15:21	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249174	06/30/18 11:20	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249175	06/30/18 11:22	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1.0 mL	249142	06/30/18 18:56	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1084-SUB-8-10
Lab Sample ID: 180-79394-3
Date Collected: 06/28/18 14:05
Matrix: Solid
Date Received: 06/29/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249249	07/02/18 10:08	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79394-1

Client Sample ID: SSHS-B1084-SUB-8-10
Lab Sample ID: 180-79394-3
Date Collected: 06/28/18 14:05
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249126	06/29/18 15:21	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249174	06/30/18 11:20	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249175	06/30/18 11:22	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1.0 mL	249142	06/30/18 19:16	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1229-SUB-2-4
Lab Sample ID: 180-79394-4
Date Collected: 06/28/18 15:30
Matrix: Solid
Date Received: 06/29/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249249	07/02/18 10:08	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1229-SUB-2-4
Lab Sample ID: 180-79394-4
Date Collected: 06/28/18 15:30
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249126	06/29/18 15:21	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249174	06/30/18 11:20	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249175	06/30/18 11:22	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		40			249200	07/01/18 11:02	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1088-SUB-6-8
Lab Sample ID: 180-79394-5
Date Collected: 06/28/18 15:00
Matrix: Solid
Date Received: 06/29/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249249	07/02/18 10:08	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1088-SUB-6-8
Lab Sample ID: 180-79394-5
Date Collected: 06/28/18 15:00
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249126	06/29/18 15:21	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249174	06/30/18 11:20	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249175	06/30/18 11:22	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1.0 mL	249142	06/30/18 19:55	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79394-1

Client Sample ID: SSHS-B1072-SUB-2-4

Lab Sample ID: 180-79394-6
Date Collected: 06/28/18 16:00
Matrix: Solid
Date Received: 06/29/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249249	07/02/18 10:08	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1072-SUB-2-4

Lab Sample ID: 180-79394-6
Date Collected: 06/28/18 16:00
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249126	06/29/18 15:21	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249174	06/30/18 11:20	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249175	06/30/18 11:22	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1.0 mL	249142	06/30/18 20:15	CMR	TAL PIT
	Instrument ID: CHGC8									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

Batch Type: Prep

SAC = Shawn Clemente

Batch Type: Analysis

CMR = Carl Reagle

CRM = Caitlin McEvoy

Client Sample ID: SSHS-B1234-SUB-4-6

Lab Sample ID: 180-79394-1
Date Collected: 06/28/18 13:25
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 88.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	06/29/18 15:21	06/30/18 17:57	1
PCB-1221	ND		19	12	ug/Kg	☼	06/29/18 15:21	06/30/18 17:57	1
PCB-1232	ND		19	11	ug/Kg	☼	06/29/18 15:21	06/30/18 17:57	1
PCB-1242	ND		19	11	ug/Kg	☼	06/29/18 15:21	06/30/18 17:57	1
PCB-1248	**3500**		19	15	ug/Kg	☼	06/29/18 15:21	06/30/18 17:57	1
PCB-1254	**3800**		19	13	ug/Kg	☼	06/29/18 15:21	06/30/18 17:57	1
PCB-1260	**460**	**F1**	19	5.3	ug/Kg	☼	06/29/18 15:21	06/30/18 17:57	1
PCB-1262	ND		19	13	ug/Kg	☼	06/29/18 15:21	06/30/18 17:57	1
PCB-1268	ND		19	9.1	ug/Kg	☼	06/29/18 15:21	06/30/18 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*06/29/18 15:21*	*06/30/18 17:57*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*	*06/29/18 15:21*	*06/30/18 17:57*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*06/29/18 15:21*	*06/30/18 17:57*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*06/29/18 15:21*	*06/30/18 17:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.1	%			07/02/18 10:08	1
Percent Solids	**88.8**		0.1	0.1	%			07/02/18 10:08	1

Client Sample ID: SSHS-B1234-SUB-8-10

Lab Sample ID: 180-79394-2
Date Collected: 06/28/18 13:30
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 90.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	06/29/18 15:21	06/30/18 18:56	1
PCB-1221	ND		19	12	ug/Kg	☼	06/29/18 15:21	06/30/18 18:56	1
PCB-1232	ND		19	11	ug/Kg	☼	06/29/18 15:21	06/30/18 18:56	1
PCB-1242	ND		19	11	ug/Kg	☼	06/29/18 15:21	06/30/18 18:56	1
PCB-1248	ND		19	15	ug/Kg	☼	06/29/18 15:21	06/30/18 18:56	1
PCB-1254	**3600**		19	13	ug/Kg	☼	06/29/18 15:21	06/30/18 18:56	1
PCB-1260	**300**		19	5.3	ug/Kg	☼	06/29/18 15:21	06/30/18 18:56	1
PCB-1262	ND		19	13	ug/Kg	☼	06/29/18 15:21	06/30/18 18:56	1
PCB-1268	ND		19	9.0	ug/Kg	☼	06/29/18 15:21	06/30/18 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*06/29/18 15:21*	*06/30/18 18:56*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*06/29/18 15:21*	*06/30/18 18:56*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*06/29/18 15:21*	*06/30/18 18:56*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*44 - 114*	*06/29/18 15:21*	*06/30/18 18:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/02/18 10:08	1
Percent Solids	**90.1**		0.1	0.1	%			07/02/18 10:08	1

Client Sample ID: SSHS-B1084-SUB-8-10

Lab Sample ID: 180-79394-3
Date Collected: 06/28/18 14:05
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 88.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	06/29/18 15:21	06/30/18 19:16	1
PCB-1221	ND		19	12	ug/Kg	☼	06/29/18 15:21	06/30/18 19:16	1
PCB-1232	ND		19	11	ug/Kg	☼	06/29/18 15:21	06/30/18 19:16	1
PCB-1242	ND		19	11	ug/Kg	☼	06/29/18 15:21	06/30/18 19:16	1
PCB-1248	**380**		19	15	ug/Kg	☼	06/29/18 15:21	06/30/18 19:16	1
PCB-1254	**710**		19	13	ug/Kg	☼	06/29/18 15:21	06/30/18 19:16	1
PCB-1260	**66**		19	5.3	ug/Kg	☼	06/29/18 15:21	06/30/18 19:16	1
PCB-1262	ND		19	13	ug/Kg	☼	06/29/18 15:21	06/30/18 19:16	1
PCB-1268	ND		19	9.0	ug/Kg	☼	06/29/18 15:21	06/30/18 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*06/29/18 15:21*	*06/30/18 19:16*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*06/29/18 15:21*	*06/30/18 19:16*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*06/29/18 15:21*	*06/30/18 19:16*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*06/29/18 15:21*	*06/30/18 19:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			07/02/18 10:08	1
Percent Solids	**88.3**		0.1	0.1	%			07/02/18 10:08	1

Client Sample ID: SSHS-B1229-SUB-2-4

Lab Sample ID: 180-79394-4
Date Collected: 06/28/18 15:30
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 88.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		750	250	ug/Kg	☼	06/29/18 15:21	07/01/18 11:02	40
PCB-1221	ND		750	490	ug/Kg	☼	06/29/18 15:21	07/01/18 11:02	40
PCB-1232	ND		750	450	ug/Kg	☼	06/29/18 15:21	07/01/18 11:02	40
PCB-1242	ND		750	450	ug/Kg	☼	06/29/18 15:21	07/01/18 11:02	40
PCB-1248	**45000**		750	600	ug/Kg	☼	06/29/18 15:21	07/01/18 11:02	40
PCB-1254	**17000**		750	520	ug/Kg	☼	06/29/18 15:21	07/01/18 11:02	40
PCB-1260	**1100**		750	210	ug/Kg	☼	06/29/18 15:21	07/01/18 11:02	40
PCB-1262	ND		750	530	ug/Kg	☼	06/29/18 15:21	07/01/18 11:02	40
PCB-1268	ND		750	370	ug/Kg	☼	06/29/18 15:21	07/01/18 11:02	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*06/29/18 15:21*	*07/01/18 11:02*	*40*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*06/29/18 15:21*	*07/01/18 11:02*	*40*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*06/29/18 15:21*	*07/01/18 11:02*	*40*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*06/29/18 15:21*	*07/01/18 11:02*	*40*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.1	%			07/02/18 10:08	1
Percent Solids	**88.4**		0.1	0.1	%			07/02/18 10:08	1

Client Sample ID: SSHS-B1088-SUB-6-8

Lab Sample ID: 180-79394-5
Date Collected: 06/28/18 15:00
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 89.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	06/29/18 15:21	06/30/18 19:55	1
PCB-1221	ND		19	12	ug/Kg	☼	06/29/18 15:21	06/30/18 19:55	1
PCB-1232	ND		19	11	ug/Kg	☼	06/29/18 15:21	06/30/18 19:55	1
PCB-1242	ND		19	11	ug/Kg	☼	06/29/18 15:21	06/30/18 19:55	1
PCB-1248	**2000**		19	15	ug/Kg	☼	06/29/18 15:21	06/30/18 19:55	1
PCB-1254	**870**		19	13	ug/Kg	☼	06/29/18 15:21	06/30/18 19:55	1
PCB-1260	**88**		19	5.3	ug/Kg	☼	06/29/18 15:21	06/30/18 19:55	1
PCB-1262	ND		19	13	ug/Kg	☼	06/29/18 15:21	06/30/18 19:55	1
PCB-1268	ND		19	9.1	ug/Kg	☼	06/29/18 15:21	06/30/18 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*06/29/18 15:21*	*06/30/18 19:55*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*06/29/18 15:21*	*06/30/18 19:55*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*06/29/18 15:21*	*06/30/18 19:55*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*44 - 114*	*06/29/18 15:21*	*06/30/18 19:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		0.1	0.1	%			07/02/18 10:08	1
Percent Solids	**89.0**		0.1	0.1	%			07/02/18 10:08	1

Client Sample ID: SSHS-B1072-SUB-2-4

Lab Sample ID: 180-79394-6
Date Collected: 06/28/18 16:00
Matrix: Solid
Date Received: 06/29/18 09:20
Percent Solids: 91.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	06/29/18 15:21	06/30/18 20:15	1
PCB-1221	ND		18	12	ug/Kg	☼	06/29/18 15:21	06/30/18 20:15	1
PCB-1232	ND		18	11	ug/Kg	☼	06/29/18 15:21	06/30/18 20:15	1
PCB-1242	ND		18	11	ug/Kg	☼	06/29/18 15:21	06/30/18 20:15	1
PCB-1248	ND		18	14	ug/Kg	☼	06/29/18 15:21	06/30/18 20:15	1
PCB-1254	ND		18	12	ug/Kg	☼	06/29/18 15:21	06/30/18 20:15	1
PCB-1260	ND		18	5.2	ug/Kg	☼	06/29/18 15:21	06/30/18 20:15	1
PCB-1262	ND		18	13	ug/Kg	☼	06/29/18 15:21	06/30/18 20:15	1
PCB-1268	ND		18	8.9	ug/Kg	☼	06/29/18 15:21	06/30/18 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*33 - 137*	*06/29/18 15:21*	*06/30/18 20:15*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*33 - 137*	*06/29/18 15:21*	*06/30/18 20:15*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*06/29/18 15:21*	*06/30/18 20:15*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*06/29/18 15:21*	*06/30/18 20:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.6**		0.1	0.1	%			07/02/18 10:08	1
Percent Solids	**91.4**		0.1	0.1	%			07/02/18 10:08	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-249126/1-C
Matrix: Solid
Analysis Batch: 249142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		06/29/18 15:21	06/30/18 17:18	1
PCB-1221	ND		17	11	ug/Kg		06/29/18 15:21	06/30/18 17:18	1
PCB-1232	ND		17	9.9	ug/Kg		06/29/18 15:21	06/30/18 17:18	1
PCB-1242	ND		17	10	ug/Kg		06/29/18 15:21	06/30/18 17:18	1
PCB-1248	ND		17	13	ug/Kg		06/29/18 15:21	06/30/18 17:18	1
PCB-1254	ND		17	11	ug/Kg		06/29/18 15:21	06/30/18 17:18	1
PCB-1260	ND		17	4.7	ug/Kg		06/29/18 15:21	06/30/18 17:18	1
PCB-1262	ND		17	12	ug/Kg		06/29/18 15:21	06/30/18 17:18	1
PCB-1268	ND		17	8.1	ug/Kg		06/29/18 15:21	06/30/18 17:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*06/29/18 15:21*	*06/30/18 17:18*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*06/29/18 15:21*	*06/30/18 17:18*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*06/29/18 15:21*	*06/30/18 17:18*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*06/29/18 15:21*	*06/30/18 17:18*	*1*

Lab Sample ID: LCS 180-249126/2-C
Matrix: Solid
Analysis Batch: 249142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249126

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1120		ug/Kg		84	46 - 122		
PCB-1260			1330	1150		ug/Kg		86	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*

Lab Sample ID: 180-79394-1 MS
Matrix: Solid
Analysis Batch: 249142

Client Sample ID: SSHS-B1234-SUB-4-6
Prep Type: Total/NA
Prep Batch: 249126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1500	1190		ug/Kg	☼	79	46 - 122		
PCB-1260	460	F1	1500	1030	F1	ug/Kg	☼	38	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*66*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*60*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-79394-1 MSD
Matrix: Solid
Analysis Batch: 249142

Client Sample ID: SSHS-B1234-SUB-4-6
Prep Type: Total/NA
Prep Batch: 249126

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1500	1310		ug/Kg	☼	88	46 - 122	10	23
PCB-1260	460	F1	1500	1120	F1	ug/Kg	☼	44	51 - 119	8	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*59*		*44 - 114*

Method: 2540G - SM 2540G

Lab Sample ID: 180-79394-1 DU
Matrix: Solid
Analysis Batch: 249249

Client Sample ID: SSHS-B1234-SUB-4-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.2			12.1		%				8	20
Percent Solids	88.8			87.9		%				1	20

GC Semi VOA

Prep Batch: 249126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79394-1	SSHS-B1234-SUB-4-6	Total/NA	Solid	3541	
180-79394-2	SSHS-B1234-SUB-8-10	Total/NA	Solid	3541	
180-79394-3	SSHS-B1084-SUB-8-10	Total/NA	Solid	3541	
180-79394-4	SSHS-B1229-SUB-2-4	Total/NA	Solid	3541	
180-79394-5	SSHS-B1088-SUB-6-8	Total/NA	Solid	3541	
180-79394-6	SSHS-B1072-SUB-2-4	Total/NA	Solid	3541	
MB 180-249126/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-249126/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-79394-1 MS	SSHS-B1234-SUB-4-6	Total/NA	Solid	3541	
180-79394-1 MSD	SSHS-B1234-SUB-4-6	Total/NA	Solid	3541	

Analysis Batch: 249142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79394-1	SSHS-B1234-SUB-4-6	Total/NA	Solid	EPA 8082A	249175
180-79394-2	SSHS-B1234-SUB-8-10	Total/NA	Solid	EPA 8082A	249175
180-79394-3	SSHS-B1084-SUB-8-10	Total/NA	Solid	EPA 8082A	249175
180-79394-5	SSHS-B1088-SUB-6-8	Total/NA	Solid	EPA 8082A	249175
180-79394-6	SSHS-B1072-SUB-2-4	Total/NA	Solid	EPA 8082A	249175
MB 180-249126/1-C	Method Blank	Total/NA	Solid	EPA 8082A	249175
LCS 180-249126/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	249175
180-79394-1 MS	SSHS-B1234-SUB-4-6	Total/NA	Solid	EPA 8082A	249175
180-79394-1 MSD	SSHS-B1234-SUB-4-6	Total/NA	Solid	EPA 8082A	249175

Cleanup Batch: 249174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79394-1	SSHS-B1234-SUB-4-6	Total/NA	Solid	3665A	249126
180-79394-2	SSHS-B1234-SUB-8-10	Total/NA	Solid	3665A	249126
180-79394-3	SSHS-B1084-SUB-8-10	Total/NA	Solid	3665A	249126
180-79394-4	SSHS-B1229-SUB-2-4	Total/NA	Solid	3665A	249126
180-79394-5	SSHS-B1088-SUB-6-8	Total/NA	Solid	3665A	249126
180-79394-6	SSHS-B1072-SUB-2-4	Total/NA	Solid	3665A	249126
MB 180-249126/1-C	Method Blank	Total/NA	Solid	3665A	249126
LCS 180-249126/2-C	Lab Control Sample	Total/NA	Solid	3665A	249126
180-79394-1 MS	SSHS-B1234-SUB-4-6	Total/NA	Solid	3665A	249126
180-79394-1 MSD	SSHS-B1234-SUB-4-6	Total/NA	Solid	3665A	249126

Cleanup Batch: 249175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79394-1	SSHS-B1234-SUB-4-6	Total/NA	Solid	3660B	249174
180-79394-2	SSHS-B1234-SUB-8-10	Total/NA	Solid	3660B	249174
180-79394-3	SSHS-B1084-SUB-8-10	Total/NA	Solid	3660B	249174
180-79394-4	SSHS-B1229-SUB-2-4	Total/NA	Solid	3660B	249174
180-79394-5	SSHS-B1088-SUB-6-8	Total/NA	Solid	3660B	249174
180-79394-6	SSHS-B1072-SUB-2-4	Total/NA	Solid	3660B	249174
MB 180-249126/1-C	Method Blank	Total/NA	Solid	3660B	249174
LCS 180-249126/2-C	Lab Control Sample	Total/NA	Solid	3660B	249174
180-79394-1 MS	SSHS-B1234-SUB-4-6	Total/NA	Solid	3660B	249174
180-79394-1 MSD	SSHS-B1234-SUB-4-6	Total/NA	Solid	3660B	249174

GC Semi VOA (Continued)

Analysis Batch: 249200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79394-4	SSHS-B1229-SUB-2-4	Total/NA	Solid	EPA 8082A	249175

General Chemistry

Analysis Batch: 249249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79394-1	SSHS-B1234-SUB-4-6	Total/NA	Solid	2540G	
180-79394-2	SSHS-B1234-SUB-8-10	Total/NA	Solid	2540G	
180-79394-3	SSHS-B1084-SUB-8-10	Total/NA	Solid	2540G	
180-79394-4	SSHS-B1229-SUB-2-4	Total/NA	Solid	2540G	
180-79394-5	SSHS-B1088-SUB-6-8	Total/NA	Solid	2540G	
180-79394-6	SSHS-B1072-SUB-2-4	Total/NA	Solid	2540G	
180-79394-1 DU	SSHS-B1234-SUB-4-6	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 6/28/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler: JL
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below ____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	Full Suite 8260C - VOCs	
SS HS-B1234-SB-4-6	6/28/18	1325	C	S	2	N	N	X		
SS HS-B1234-SB-8-10		1330	C	S	2	N	N	X		
SS HS-B1084-SB-8-10		1405	C	S	2	N	N	X		
SS HS-B1229-SB-2-4		1530	C	S	2	N	N	X		
SS HS-B1088-SB-6-8		1500	C	S	2	N	N	X		
SS HS-B1072-SB-2-4		1600	C	S	2	N	N	X		
PILE 102		1500	C	S	3	N	N	X		Full Suite
PILE 102-A		1500	G	S	4	N	N		X	Terracore kit
PILE 102-B		1500	C	S	4	N	N		X	"
PILE 102-C		1505	C	S	4	N	N		X	"
PILE 102-D		1505	G	S	4	N	N		X	"
TRIP BLANK	X	X	—	—	—	N	N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____ (1)

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

180-79394 Chain of Custody

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: Geosyntec	Date/Time: 6/27/18 1800	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 6-29-18 9:20
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79394-1

Login Number: 79394
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79432-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/3/2018 4:06:24 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 180-79432-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79432-1

Receipt
The samples were received on 6/30/2018 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-B1214-SUB-4-6 (180-79432-2), PS-FD-4 (180-79432-12) and SSHS-B1232-SUB-4-6 (180-79432-18). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: Samples SSHS-B1242-SUB-6-8 (180-79432-4) had the recovery of surrogate tetrachloro-m-xylene above the control limits on one column.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-249261 (CCV 180-249261/1) was below criteria for 1 peak for aroclor 1254 on column RTX-CLP2. The associated sample results for aroclor 1254 were reported from column RTX-CLP1 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-249419 (CCV 180-249419/4) was above criteria for 1 peak for aroclor 1248 on column RTX-CLP1. The associated sample results for aroclor 1248 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method 8082A: The matrix spike (MS) of sample SSHS-B1080B-SUB-6-8 (180-79432-13) had the recovery of aroclor 1016 slightly above the control limits. The RPD between the spikes and the recovery of the laboratory control sample were within the control limits.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79432-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79432-1	SSHS-B1248-SUB-10-12	Solid	06/29/18 08:00	06/30/18 10:00
180-79432-2	SSHS-B1214-SUB-4-6	Solid	06/29/18 08:45	06/30/18 10:00
180-79432-3	SSHS-B1216-SUB-4-6	Solid	06/29/18 09:00	06/30/18 10:00
180-79432-4	SSHS-B1242-SUB-6-8	Solid	06/29/18 09:30	06/30/18 10:00
180-79432-5	SSHS-B1202-SUB-2-4	Solid	06/29/18 09:45	06/30/18 10:00
180-79432-6	SSHS-B1202-SUB-4-6	Solid	06/29/18 09:50	06/30/18 10:00
180-79432-7	SSHS-B1064-SUB-4-6	Solid	06/29/18 10:20	06/30/18 10:00
180-79432-8	SSHS-B1243-SUB-6-8	Solid	06/29/18 11:00	06/30/18 10:00
180-79432-9	SSHS-B1109-SUB-8-10	Solid	06/29/18 11:30	06/30/18 10:00
180-79432-10	SSHS-B1074-SUB-2-4	Solid	06/29/18 12:00	06/30/18 10:00
180-79432-11	PS-FD-5	Solid	06/29/18 00:00	06/30/18 10:00
180-79432-12	PS-FD-4	Solid	06/29/18 00:00	06/30/18 10:00
180-79432-13	SSHS-B1080B-SUB-6-8	Solid	06/29/18 13:00	06/30/18 10:00
180-79432-14	SSHS-B1194-SUB-4-6	Solid	06/29/18 14:00	06/30/18 10:00
180-79432-15	SSHS-B1231-SUB-4-6	Solid	06/29/18 14:30	06/30/18 10:00
180-79432-16	SSHS-B1076-SUB-2-4	Solid	06/29/18 15:00	06/30/18 10:00
180-79432-17	SSHS-B1226-SUB-2-4	Solid	06/29/18 15:15	06/30/18 10:00
180-79432-18	SSHS-B1232-SUB-4-6	Solid	06/29/18 15:48	06/30/18 10:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Client Sample ID: SSHS-B1248-SUB-10-12
Lab Sample ID: 180-79432-1
Date Collected: 06/29/18 08:00
Matrix: Solid
Date Received: 06/30/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1248-SUB-10-12
Lab Sample ID: 180-79432-1
Date Collected: 06/29/18 08:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249261	07/02/18 16:07	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1214-SUB-4-6
Lab Sample ID: 180-79432-2
Date Collected: 06/29/18 08:45
Matrix: Solid
Date Received: 06/30/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1214-SUB-4-6
Lab Sample ID: 180-79432-2
Date Collected: 06/29/18 08:45
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		20			249419	07/03/18 09:30	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1216-SUB-4-6
Lab Sample ID: 180-79432-3
Date Collected: 06/29/18 09:00
Matrix: Solid
Date Received: 06/30/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Client Sample ID: SSHS-B1216-SUB-4-6

Lab Sample ID: 180-79432-3
Date Collected: 06/29/18 09:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249261	07/02/18 16:45	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1242-SUB-6-8

Lab Sample ID: 180-79432-4
Date Collected: 06/29/18 09:30
Matrix: Solid
Date Received: 06/30/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1242-SUB-6-8

Lab Sample ID: 180-79432-4
Date Collected: 06/29/18 09:30
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249261	07/02/18 17:04	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1202-SUB-2-4

Lab Sample ID: 180-79432-5
Date Collected: 06/29/18 09:45
Matrix: Solid
Date Received: 06/30/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1202-SUB-2-4

Lab Sample ID: 180-79432-5
Date Collected: 06/29/18 09:45
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249261	07/02/18 17:23	DFE	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Client Sample ID: SSHS-B1202-SUB-4-6
Date Collected: 06/29/18 09:50
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1202-SUB-4-6
Date Collected: 06/29/18 09:50
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-6
Matrix: Solid
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1.0 mL	249261	07/02/18 17:41	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1064-SUB-4-6
Date Collected: 06/29/18 10:20
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1064-SUB-4-6
Date Collected: 06/29/18 10:20
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-7
Matrix: Solid
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249261	07/02/18 18:00	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1243-SUB-6-8
Date Collected: 06/29/18 11:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Client Sample ID: SSHS-B1243-SUB-6-8

Lab Sample ID: 180-79432-8
Date Collected: 06/29/18 11:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249261	07/02/18 18:19	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1109-SUB-8-10

Lab Sample ID: 180-79432-9
Date Collected: 06/29/18 11:30
Matrix: Solid
Date Received: 06/30/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1109-SUB-8-10

Lab Sample ID: 180-79432-9
Date Collected: 06/29/18 11:30
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249261	07/02/18 18:38	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1074-SUB-2-4

Lab Sample ID: 180-79432-10
Date Collected: 06/29/18 12:00
Matrix: Solid
Date Received: 06/30/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1074-SUB-2-4

Lab Sample ID: 180-79432-10
Date Collected: 06/29/18 12:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249419	07/03/18 09:49	DFE	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Client Sample ID: PS-FD-5
Date Collected: 06/29/18 00:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-5
Date Collected: 06/29/18 00:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-11
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249419	07/03/18 10:09	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: PS-FD-4
Date Collected: 06/29/18 00:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-4
Date Collected: 06/29/18 00:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-12
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		10			249419	07/03/18 13:26	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1080B-SUB-6-8
Date Collected: 06/29/18 13:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Client Sample ID: SSHS-B1080B-SUB-6-8

Lab Sample ID: 180-79432-13
Date Collected: 06/29/18 13:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249419	07/03/18 10:48	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1194-SUB-4-6

Lab Sample ID: 180-79432-14
Date Collected: 06/29/18 14:00
Matrix: Solid
Date Received: 06/30/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1194-SUB-4-6

Lab Sample ID: 180-79432-14
Date Collected: 06/29/18 14:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249419	07/03/18 11:47	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1231-SUB-4-6

Lab Sample ID: 180-79432-15
Date Collected: 06/29/18 14:30
Matrix: Solid
Date Received: 06/30/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1231-SUB-4-6

Lab Sample ID: 180-79432-15
Date Collected: 06/29/18 14:30
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249419	07/03/18 12:07	DFE	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Client Sample ID: SSHS-B1076-SUB-2-4
Date Collected: 06/29/18 15:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1076-SUB-2-4
Date Collected: 06/29/18 15:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-16
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249419	07/03/18 12:27	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1226-SUB-2-4
Date Collected: 06/29/18 15:15
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1226-SUB-2-4
Date Collected: 06/29/18 15:15
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-17
Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249419	07/03/18 12:47	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1232-SUB-4-6
Date Collected: 06/29/18 15:48
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249280	07/02/18 11:26	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79432-1

Client Sample ID: SSHS-B1232-SUB-4-6
Date Collected: 06/29/18 15:48
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-18
Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249186	06/30/18 13:38	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249297	07/02/18 12:17	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249298	07/02/18 12:19	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		5			249419	07/03/18 13:46	DFE	TAL PIT
	Instrument ID: CHGC8									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

Batch Type: Prep

DLL = Debbie Lowe

Batch Type: Analysis

CRM = Caitlin McEvoy

DFE = David Eppinger

Client Sample ID: SSHS-B1248-SUB-10-12

Lab Sample ID: 180-79432-1
Date Collected: 06/29/18 08:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 90.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	06/30/18 13:38	07/02/18 16:07	1
PCB-1221	ND		18	12	ug/Kg	☼	06/30/18 13:38	07/02/18 16:07	1
PCB-1232	ND		18	11	ug/Kg	☼	06/30/18 13:38	07/02/18 16:07	1
PCB-1242	ND		18	11	ug/Kg	☼	06/30/18 13:38	07/02/18 16:07	1
PCB-1248	**3600**		18	15	ug/Kg	☼	06/30/18 13:38	07/02/18 16:07	1
PCB-1254	**1400**		18	13	ug/Kg	☼	06/30/18 13:38	07/02/18 16:07	1
PCB-1260	**340**		18	5.2	ug/Kg	☼	06/30/18 13:38	07/02/18 16:07	1
PCB-1262	ND		18	13	ug/Kg	☼	06/30/18 13:38	07/02/18 16:07	1
PCB-1268	ND		18	8.9	ug/Kg	☼	06/30/18 13:38	07/02/18 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*06/30/18 13:38*	*07/02/18 16:07*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*06/30/18 13:38*	*07/02/18 16:07*	*1*
Tetrachloro-m-xylene (Surr)	*104*		*44 - 114*	*06/30/18 13:38*	*07/02/18 16:07*	*1*
Tetrachloro-m-xylene (Surr)	*112*		*44 - 114*	*06/30/18 13:38*	*07/02/18 16:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**90.9**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1214-SUB-4-6

Lab Sample ID: 180-79432-2
Date Collected: 06/29/18 08:45
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 90.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		360	120	ug/Kg	☼	06/30/18 13:38	07/03/18 09:30	20
PCB-1221	ND		360	230	ug/Kg	☼	06/30/18 13:38	07/03/18 09:30	20
PCB-1232	ND		360	210	ug/Kg	☼	06/30/18 13:38	07/03/18 09:30	20
PCB-1242	ND		360	220	ug/Kg	☼	06/30/18 13:38	07/03/18 09:30	20
PCB-1248	**13000**		360	290	ug/Kg	☼	06/30/18 13:38	07/03/18 09:30	20
PCB-1254	**6300**		360	250	ug/Kg	☼	06/30/18 13:38	07/03/18 09:30	20
PCB-1260	**790**		360	100	ug/Kg	☼	06/30/18 13:38	07/03/18 09:30	20
PCB-1262	ND		360	250	ug/Kg	☼	06/30/18 13:38	07/03/18 09:30	20
PCB-1268	ND		360	180	ug/Kg	☼	06/30/18 13:38	07/03/18 09:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*06/30/18 13:38*	*07/03/18 09:30*	*20*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*	*06/30/18 13:38*	*07/03/18 09:30*	*20*
Tetrachloro-m-xylene (Surr)	*56*		*44 - 114*	*06/30/18 13:38*	*07/03/18 09:30*	*20*
Tetrachloro-m-xylene (Surr)	*54*		*44 - 114*	*06/30/18 13:38*	*07/03/18 09:30*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**90.8**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1216-SUB-4-6

Lab Sample ID: 180-79432-3

Date Collected: 06/29/18 09:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 87.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	06/30/18 13:38	07/02/18 16:45	1
PCB-1221	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/02/18 16:45	1
PCB-1232	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/02/18 16:45	1
PCB-1242	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/02/18 16:45	1
PCB-1248	**1000**		19	15	ug/Kg	☼	06/30/18 13:38	07/02/18 16:45	1
PCB-1254	**590**		19	13	ug/Kg	☼	06/30/18 13:38	07/02/18 16:45	1
PCB-1260	**210**		19	5.4	ug/Kg	☼	06/30/18 13:38	07/02/18 16:45	1
PCB-1262	ND		19	13	ug/Kg	☼	06/30/18 13:38	07/02/18 16:45	1
PCB-1268	ND		19	9.2	ug/Kg	☼	06/30/18 13:38	07/02/18 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*06/30/18 13:38*	*07/02/18 16:45*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*06/30/18 13:38*	*07/02/18 16:45*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*06/30/18 13:38*	*07/02/18 16:45*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*44 - 114*	*06/30/18 13:38*	*07/02/18 16:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**87.5**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1242-SUB-6-8

Lab Sample ID: 180-79432-4

Date Collected: 06/29/18 09:30
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 84.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	06/30/18 13:38	07/02/18 17:04	1
PCB-1221	ND		20	13	ug/Kg	☼	06/30/18 13:38	07/02/18 17:04	1
PCB-1232	ND		20	12	ug/Kg	☼	06/30/18 13:38	07/02/18 17:04	1
PCB-1242	ND		20	12	ug/Kg	☼	06/30/18 13:38	07/02/18 17:04	1
PCB-1248	**1200**		20	16	ug/Kg	☼	06/30/18 13:38	07/02/18 17:04	1
PCB-1254	**550**		20	14	ug/Kg	☼	06/30/18 13:38	07/02/18 17:04	1
PCB-1260	**190**		20	5.6	ug/Kg	☼	06/30/18 13:38	07/02/18 17:04	1
PCB-1262	ND		20	14	ug/Kg	☼	06/30/18 13:38	07/02/18 17:04	1
PCB-1268	ND		20	9.6	ug/Kg	☼	06/30/18 13:38	07/02/18 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*06/30/18 13:38*	*07/02/18 17:04*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*06/30/18 13:38*	*07/02/18 17:04*	*1*
Tetrachloro-m-xylene (Surr)	*117*	*X*	*44 - 114*	*06/30/18 13:38*	*07/02/18 17:04*	*1*
Tetrachloro-m-xylene (Surr)	*109*		*44 - 114*	*06/30/18 13:38*	*07/02/18 17:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.8**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**84.2**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1202-SUB-2-4

Lab Sample ID: 180-79432-5
Date Collected: 06/29/18 09:45
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 83.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	06/30/18 13:38	07/02/18 17:23	1
PCB-1221	ND		20	13	ug/Kg	☼	06/30/18 13:38	07/02/18 17:23	1
PCB-1232	ND		20	12	ug/Kg	☼	06/30/18 13:38	07/02/18 17:23	1
PCB-1242	ND		20	12	ug/Kg	☼	06/30/18 13:38	07/02/18 17:23	1
PCB-1248	**1400**		20	16	ug/Kg	☼	06/30/18 13:38	07/02/18 17:23	1
PCB-1254	**550**		20	14	ug/Kg	☼	06/30/18 13:38	07/02/18 17:23	1
PCB-1260	**140**		20	5.6	ug/Kg	☼	06/30/18 13:38	07/02/18 17:23	1
PCB-1262	ND		20	14	ug/Kg	☼	06/30/18 13:38	07/02/18 17:23	1
PCB-1268	ND		20	9.6	ug/Kg	☼	06/30/18 13:38	07/02/18 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*06/30/18 13:38*	*07/02/18 17:23*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*06/30/18 13:38*	*07/02/18 17:23*	*1*
Tetrachloro-m-xylene (Surr)	*106*		*44 - 114*	*06/30/18 13:38*	*07/02/18 17:23*	*1*
Tetrachloro-m-xylene (Surr)	*106*		*44 - 114*	*06/30/18 13:38*	*07/02/18 17:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.3**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**83.7**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1202-SUB-4-6

Lab Sample ID: 180-79432-6
Date Collected: 06/29/18 09:50
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 82.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	06/30/18 13:38	07/02/18 17:41	1
PCB-1221	ND		20	13	ug/Kg	☼	06/30/18 13:38	07/02/18 17:41	1
PCB-1232	ND		20	12	ug/Kg	☼	06/30/18 13:38	07/02/18 17:41	1
PCB-1242	ND		20	12	ug/Kg	☼	06/30/18 13:38	07/02/18 17:41	1
PCB-1248	**240**		20	16	ug/Kg	☼	06/30/18 13:38	07/02/18 17:41	1
PCB-1254	**69**		20	14	ug/Kg	☼	06/30/18 13:38	07/02/18 17:41	1
PCB-1260	**18**	**J**	20	5.7	ug/Kg	☼	06/30/18 13:38	07/02/18 17:41	1
PCB-1262	ND		20	14	ug/Kg	☼	06/30/18 13:38	07/02/18 17:41	1
PCB-1268	ND		20	9.7	ug/Kg	☼	06/30/18 13:38	07/02/18 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*06/30/18 13:38*	*07/02/18 17:41*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*06/30/18 13:38*	*07/02/18 17:41*	*1*
Tetrachloro-m-xylene (Surr)	*110*		*44 - 114*	*06/30/18 13:38*	*07/02/18 17:41*	*1*
Tetrachloro-m-xylene (Surr)	*109*		*44 - 114*	*06/30/18 13:38*	*07/02/18 17:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.9**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**82.1**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1064-SUB-4-6

Lab Sample ID: 180-79432-7
Date Collected: 06/29/18 10:20
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 88.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	06/30/18 13:38	07/02/18 18:00	1
PCB-1221	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/02/18 18:00	1
PCB-1232	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/02/18 18:00	1
PCB-1242	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/02/18 18:00	1
PCB-1248	**2400**		19	15	ug/Kg	☼	06/30/18 13:38	07/02/18 18:00	1
PCB-1254	**980**		19	13	ug/Kg	☼	06/30/18 13:38	07/02/18 18:00	1
PCB-1260	**200**		19	5.3	ug/Kg	☼	06/30/18 13:38	07/02/18 18:00	1
PCB-1262	ND		19	13	ug/Kg	☼	06/30/18 13:38	07/02/18 18:00	1
PCB-1268	ND		19	9.0	ug/Kg	☼	06/30/18 13:38	07/02/18 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*115*		*33 - 137*	*06/30/18 13:38*	*07/02/18 18:00*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*33 - 137*	*06/30/18 13:38*	*07/02/18 18:00*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*	*06/30/18 13:38*	*07/02/18 18:00*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*	*06/30/18 13:38*	*07/02/18 18:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.0**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**88.0**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1243-SUB-6-8

Lab Sample ID: 180-79432-8
Date Collected: 06/29/18 11:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 86.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	06/30/18 13:38	07/02/18 18:19	1
PCB-1221	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/02/18 18:19	1
PCB-1232	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/02/18 18:19	1
PCB-1242	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/02/18 18:19	1
PCB-1248	**420**		19	15	ug/Kg	☼	06/30/18 13:38	07/02/18 18:19	1
PCB-1254	**360**		19	13	ug/Kg	☼	06/30/18 13:38	07/02/18 18:19	1
PCB-1260	**140**		19	5.3	ug/Kg	☼	06/30/18 13:38	07/02/18 18:19	1
PCB-1262	ND		19	13	ug/Kg	☼	06/30/18 13:38	07/02/18 18:19	1
PCB-1268	ND		19	9.1	ug/Kg	☼	06/30/18 13:38	07/02/18 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*	*06/30/18 13:38*	*07/02/18 18:19*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*33 - 137*	*06/30/18 13:38*	*07/02/18 18:19*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*44 - 114*	*06/30/18 13:38*	*07/02/18 18:19*	*1*
Tetrachloro-m-xylene (Surr)	*101*		*44 - 114*	*06/30/18 13:38*	*07/02/18 18:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.2**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**86.8**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1109-SUB-8-10

Lab Sample ID: 180-79432-9

Date Collected: 06/29/18 11:30
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 85.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	06/30/18 13:38	07/02/18 18:38	1
PCB-1221	ND		19	13	ug/Kg	☼	06/30/18 13:38	07/02/18 18:38	1
PCB-1232	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/02/18 18:38	1
PCB-1242	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/02/18 18:38	1
PCB-1248	**93**		19	15	ug/Kg	☼	06/30/18 13:38	07/02/18 18:38	1
PCB-1254	**33**		19	13	ug/Kg	☼	06/30/18 13:38	07/02/18 18:38	1
PCB-1260	**12**	**J**	19	5.5	ug/Kg	☼	06/30/18 13:38	07/02/18 18:38	1
PCB-1262	ND		19	14	ug/Kg	☼	06/30/18 13:38	07/02/18 18:38	1
PCB-1268	ND		19	9.4	ug/Kg	☼	06/30/18 13:38	07/02/18 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*06/30/18 13:38*	*07/02/18 18:38*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*06/30/18 13:38*	*07/02/18 18:38*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*06/30/18 13:38*	*07/02/18 18:38*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*	*06/30/18 13:38*	*07/02/18 18:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**85.8**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1074-SUB-2-4

Lab Sample ID: 180-79432-10

Date Collected: 06/29/18 12:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 82.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	06/30/18 13:38	07/03/18 09:49	1
PCB-1221	ND		20	13	ug/Kg	☼	06/30/18 13:38	07/03/18 09:49	1
PCB-1232	ND		20	12	ug/Kg	☼	06/30/18 13:38	07/03/18 09:49	1
PCB-1242	ND		20	12	ug/Kg	☼	06/30/18 13:38	07/03/18 09:49	1
PCB-1248	**120**		20	16	ug/Kg	☼	06/30/18 13:38	07/03/18 09:49	1
PCB-1254	**92**		20	14	ug/Kg	☼	06/30/18 13:38	07/03/18 09:49	1
PCB-1260	ND		20	5.7	ug/Kg	☼	06/30/18 13:38	07/03/18 09:49	1
PCB-1262	ND		20	14	ug/Kg	☼	06/30/18 13:38	07/03/18 09:49	1
PCB-1268	ND		20	9.8	ug/Kg	☼	06/30/18 13:38	07/03/18 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*06/30/18 13:38*	*07/03/18 09:49*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*06/30/18 13:38*	*07/03/18 09:49*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*06/30/18 13:38*	*07/03/18 09:49*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*06/30/18 13:38*	*07/03/18 09:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.9**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**82.1**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: PS-FD-5

Date Collected: 06/29/18 00:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-11

Matrix: Solid
Percent Solids: 88.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	06/30/18 13:38	07/03/18 10:09	1
PCB-1221	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/03/18 10:09	1
PCB-1232	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/03/18 10:09	1
PCB-1242	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/03/18 10:09	1
PCB-1248	**240**		19	15	ug/Kg	☼	06/30/18 13:38	07/03/18 10:09	1
PCB-1254	**220**		19	13	ug/Kg	☼	06/30/18 13:38	07/03/18 10:09	1
PCB-1260	ND		19	5.4	ug/Kg	☼	06/30/18 13:38	07/03/18 10:09	1
PCB-1262	ND		19	13	ug/Kg	☼	06/30/18 13:38	07/03/18 10:09	1
PCB-1268	ND		19	9.2	ug/Kg	☼	06/30/18 13:38	07/03/18 10:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*06/30/18 13:38*	*07/03/18 10:09*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*06/30/18 13:38*	*07/03/18 10:09*	*1*
Tetrachloro-m-xylene (Surr)	*104*		*44 - 114*	*06/30/18 13:38*	*07/03/18 10:09*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*	*06/30/18 13:38*	*07/03/18 10:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.8**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**88.2**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: PS-FD-4

Date Collected: 06/29/18 00:00
Date Received: 06/30/18 10:00

Lab Sample ID: 180-79432-12

Matrix: Solid
Percent Solids: 90.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	60	ug/Kg	☼	06/30/18 13:38	07/03/18 13:26	10
PCB-1221	ND		180	120	ug/Kg	☼	06/30/18 13:38	07/03/18 13:26	10
PCB-1232	ND		180	110	ug/Kg	☼	06/30/18 13:38	07/03/18 13:26	10
PCB-1242	ND		180	110	ug/Kg	☼	06/30/18 13:38	07/03/18 13:26	10
PCB-1248	**11000**		180	150	ug/Kg	☼	06/30/18 13:38	07/03/18 13:26	10
PCB-1254	**4800**		180	130	ug/Kg	☼	06/30/18 13:38	07/03/18 13:26	10
PCB-1260	**670**		180	52	ug/Kg	☼	06/30/18 13:38	07/03/18 13:26	10
PCB-1262	ND		180	130	ug/Kg	☼	06/30/18 13:38	07/03/18 13:26	10
PCB-1268	ND		180	89	ug/Kg	☼	06/30/18 13:38	07/03/18 13:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*06/30/18 13:38*	*07/03/18 13:26*	*10*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*06/30/18 13:38*	*07/03/18 13:26*	*10*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*06/30/18 13:38*	*07/03/18 13:26*	*10*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*06/30/18 13:38*	*07/03/18 13:26*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**90.6**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1080B-SUB-6-8

Lab Sample ID: 180-79432-13

Date Collected: 06/29/18 13:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 85.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	06/30/18 13:38	07/03/18 10:48	1
PCB-1221	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/03/18 10:48	1
PCB-1232	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/03/18 10:48	1
PCB-1242	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/03/18 10:48	1
PCB-1248	ND		19	15	ug/Kg	☼	06/30/18 13:38	07/03/18 10:48	1
PCB-1254	**1300**		19	13	ug/Kg	☼	06/30/18 13:38	07/03/18 10:48	1
PCB-1260	ND		19	5.5	ug/Kg	☼	06/30/18 13:38	07/03/18 10:48	1
PCB-1262	ND		19	14	ug/Kg	☼	06/30/18 13:38	07/03/18 10:48	1
PCB-1268	ND		19	9.4	ug/Kg	☼	06/30/18 13:38	07/03/18 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*06/30/18 13:38*	*07/03/18 10:48*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*06/30/18 13:38*	*07/03/18 10:48*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*06/30/18 13:38*	*07/03/18 10:48*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*06/30/18 13:38*	*07/03/18 10:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**85.8**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1194-SUB-4-6

Lab Sample ID: 180-79432-14

Date Collected: 06/29/18 14:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 86.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	06/30/18 13:38	07/03/18 11:47	1
PCB-1221	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/03/18 11:47	1
PCB-1232	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/03/18 11:47	1
PCB-1242	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/03/18 11:47	1
PCB-1248	**84**		19	15	ug/Kg	☼	06/30/18 13:38	07/03/18 11:47	1
PCB-1254	**43**		19	13	ug/Kg	☼	06/30/18 13:38	07/03/18 11:47	1
PCB-1260	ND		19	5.4	ug/Kg	☼	06/30/18 13:38	07/03/18 11:47	1
PCB-1262	ND		19	13	ug/Kg	☼	06/30/18 13:38	07/03/18 11:47	1
PCB-1268	ND		19	9.3	ug/Kg	☼	06/30/18 13:38	07/03/18 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*06/30/18 13:38*	*07/03/18 11:47*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*06/30/18 13:38*	*07/03/18 11:47*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*06/30/18 13:38*	*07/03/18 11:47*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*06/30/18 13:38*	*07/03/18 11:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.9**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**86.1**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1231-SUB-4-6

Lab Sample ID: 180-79432-15

Date Collected: 06/29/18 14:30
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 88.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	06/30/18 13:38	07/03/18 12:07	1
PCB-1221	ND		18	12	ug/Kg	☼	06/30/18 13:38	07/03/18 12:07	1
PCB-1232	ND		18	11	ug/Kg	☼	06/30/18 13:38	07/03/18 12:07	1
PCB-1242	ND		18	11	ug/Kg	☼	06/30/18 13:38	07/03/18 12:07	1
PCB-1248	ND		18	15	ug/Kg	☼	06/30/18 13:38	07/03/18 12:07	1
PCB-1254	**390**		18	13	ug/Kg	☼	06/30/18 13:38	07/03/18 12:07	1
PCB-1260	**68**		18	5.2	ug/Kg	☼	06/30/18 13:38	07/03/18 12:07	1
PCB-1262	ND		18	13	ug/Kg	☼	06/30/18 13:38	07/03/18 12:07	1
PCB-1268	ND		18	8.9	ug/Kg	☼	06/30/18 13:38	07/03/18 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*06/30/18 13:38*	*07/03/18 12:07*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*06/30/18 13:38*	*07/03/18 12:07*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*06/30/18 13:38*	*07/03/18 12:07*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*06/30/18 13:38*	*07/03/18 12:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**88.7**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1076-SUB-2-4

Lab Sample ID: 180-79432-16

Date Collected: 06/29/18 15:00
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 86.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	06/30/18 13:38	07/03/18 12:27	1
PCB-1221	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/03/18 12:27	1
PCB-1232	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/03/18 12:27	1
PCB-1242	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/03/18 12:27	1
PCB-1248	ND		19	15	ug/Kg	☼	06/30/18 13:38	07/03/18 12:27	1
PCB-1254	ND		19	13	ug/Kg	☼	06/30/18 13:38	07/03/18 12:27	1
PCB-1260	ND		19	5.4	ug/Kg	☼	06/30/18 13:38	07/03/18 12:27	1
PCB-1262	ND		19	13	ug/Kg	☼	06/30/18 13:38	07/03/18 12:27	1
PCB-1268	ND		19	9.2	ug/Kg	☼	06/30/18 13:38	07/03/18 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*06/30/18 13:38*	*07/03/18 12:27*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*06/30/18 13:38*	*07/03/18 12:27*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*06/30/18 13:38*	*07/03/18 12:27*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*06/30/18 13:38*	*07/03/18 12:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**86.7**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1226-SUB-2-4

Lab Sample ID: 180-79432-17

Date Collected: 06/29/18 15:15
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 85.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	06/30/18 13:38	07/03/18 12:47	1
PCB-1221	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/03/18 12:47	1
PCB-1232	ND		19	11	ug/Kg	☼	06/30/18 13:38	07/03/18 12:47	1
PCB-1242	ND		19	12	ug/Kg	☼	06/30/18 13:38	07/03/18 12:47	1
PCB-1248	ND		19	15	ug/Kg	☼	06/30/18 13:38	07/03/18 12:47	1
PCB-1254	ND		19	13	ug/Kg	☼	06/30/18 13:38	07/03/18 12:47	1
PCB-1260	ND		19	5.5	ug/Kg	☼	06/30/18 13:38	07/03/18 12:47	1
PCB-1262	ND		19	14	ug/Kg	☼	06/30/18 13:38	07/03/18 12:47	1
PCB-1268	ND		19	9.4	ug/Kg	☼	06/30/18 13:38	07/03/18 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*06/30/18 13:38*	*07/03/18 12:47*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*06/30/18 13:38*	*07/03/18 12:47*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*06/30/18 13:38*	*07/03/18 12:47*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*06/30/18 13:38*	*07/03/18 12:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.1**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**85.9**		0.1	0.1	%			07/02/18 11:26	1

Client Sample ID: SSHS-B1232-SUB-4-6

Lab Sample ID: 180-79432-18

Date Collected: 06/29/18 15:48
Matrix: Solid
Date Received: 06/30/18 10:00
Percent Solids: 86.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		95	31	ug/Kg	☼	06/30/18 13:38	07/03/18 13:46	5
PCB-1221	ND		95	61	ug/Kg	☼	06/30/18 13:38	07/03/18 13:46	5
PCB-1232	ND		95	56	ug/Kg	☼	06/30/18 13:38	07/03/18 13:46	5
PCB-1242	ND		95	57	ug/Kg	☼	06/30/18 13:38	07/03/18 13:46	5
PCB-1248	**7400**		95	75	ug/Kg	☼	06/30/18 13:38	07/03/18 13:46	5
PCB-1254	**5200**		95	65	ug/Kg	☼	06/30/18 13:38	07/03/18 13:46	5
PCB-1260	**1000**		95	27	ug/Kg	☼	06/30/18 13:38	07/03/18 13:46	5
PCB-1262	ND		95	66	ug/Kg	☼	06/30/18 13:38	07/03/18 13:46	5
PCB-1268	ND		95	46	ug/Kg	☼	06/30/18 13:38	07/03/18 13:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*06/30/18 13:38*	*07/03/18 13:46*	*5*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*06/30/18 13:38*	*07/03/18 13:46*	*5*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*06/30/18 13:38*	*07/03/18 13:46*	*5*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*06/30/18 13:38*	*07/03/18 13:46*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			07/02/18 11:26	1
Percent Solids	**86.9**		0.1	0.1	%			07/02/18 11:26	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-249186/2-C
Matrix: Solid
Analysis Batch: 249261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		06/30/18 13:38	07/02/18 15:49	1
PCB-1221	ND		17	11	ug/Kg		06/30/18 13:38	07/02/18 15:49	1
PCB-1232	ND		17	9.9	ug/Kg		06/30/18 13:38	07/02/18 15:49	1
PCB-1242	ND		17	10	ug/Kg		06/30/18 13:38	07/02/18 15:49	1
PCB-1248	ND		17	13	ug/Kg		06/30/18 13:38	07/02/18 15:49	1
PCB-1254	ND		17	11	ug/Kg		06/30/18 13:38	07/02/18 15:49	1
PCB-1260	ND		17	4.7	ug/Kg		06/30/18 13:38	07/02/18 15:49	1
PCB-1262	ND		17	12	ug/Kg		06/30/18 13:38	07/02/18 15:49	1
PCB-1268	ND		17	8.1	ug/Kg		06/30/18 13:38	07/02/18 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*06/30/18 13:38*	*07/02/18 15:49*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*06/30/18 13:38*	*07/02/18 15:49*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*06/30/18 13:38*	*07/02/18 15:49*	*1*
Tetrachloro-m-xylene (Surr)	*101*		*44 - 114*	*06/30/18 13:38*	*07/02/18 15:49*	*1*

Lab Sample ID: LCS 180-249186/1-C
Matrix: Solid
Analysis Batch: 249419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249186

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1270		ug/Kg		95	46 - 122		
PCB-1260			1330	1050		ug/Kg		79	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*

Lab Sample ID: 180-79432-13 MS
Matrix: Solid
Analysis Batch: 249419

Client Sample ID: SSHS-B1080B-SUB-6-8
Prep Type: Total/NA
Prep Batch: 249186

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1520	1900	F1	ug/Kg	☼	125	46 - 122		
PCB-1260	ND		1520	1330		ug/Kg	☼	87	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-79432-13 MSD
Matrix: Solid
Analysis Batch: 249419

Client Sample ID: SSHS-B1080B-SUB-6-8
Prep Type: Total/NA
Prep Batch: 249186

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1550	1580		ug/Kg	☼	102	46 - 122	18	23
PCB-1260	ND		1550	1430		ug/Kg	☼	92	51 - 119	8	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*

Method: 2540G - SM 2540G

Lab Sample ID: 180-79432-1 DU
Matrix: Solid
Analysis Batch: 249280

Client Sample ID: SSHS-B1248-SUB-10-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.1			8.6		%				6	20
Percent Solids	90.9			91.4		%				0.5	20

GC Semi VOA

Prep Batch: 249186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79432-1	SSHS-B1248-SUB-10-12	Total/NA	Solid	3541	
180-79432-2	SSHS-B1214-SUB-4-6	Total/NA	Solid	3541	
180-79432-3	SSHS-B1216-SUB-4-6	Total/NA	Solid	3541	
180-79432-4	SSHS-B1242-SUB-6-8	Total/NA	Solid	3541	
180-79432-5	SSHS-B1202-SUB-2-4	Total/NA	Solid	3541	
180-79432-6	SSHS-B1202-SUB-4-6	Total/NA	Solid	3541	
180-79432-7	SSHS-B1064-SUB-4-6	Total/NA	Solid	3541	
180-79432-8	SSHS-B1243-SUB-6-8	Total/NA	Solid	3541	
180-79432-9	SSHS-B1109-SUB-8-10	Total/NA	Solid	3541	
180-79432-10	SSHS-B1074-SUB-2-4	Total/NA	Solid	3541	
180-79432-11	PS-FD-5	Total/NA	Solid	3541	
180-79432-12	PS-FD-4	Total/NA	Solid	3541	
180-79432-13	SSHS-B1080B-SUB-6-8	Total/NA	Solid	3541	
180-79432-14	SSHS-B1194-SUB-4-6	Total/NA	Solid	3541	
180-79432-15	SSHS-B1231-SUB-4-6	Total/NA	Solid	3541	
180-79432-16	SSHS-B1076-SUB-2-4	Total/NA	Solid	3541	
180-79432-17	SSHS-B1226-SUB-2-4	Total/NA	Solid	3541	
180-79432-18	SSHS-B1232-SUB-4-6	Total/NA	Solid	3541	
MB 180-249186/2-C	Method Blank	Total/NA	Solid	3541	
LCS 180-249186/1-C	Lab Control Sample	Total/NA	Solid	3541	
180-79432-13 MS	SSHS-B1080B-SUB-6-8	Total/NA	Solid	3541	
180-79432-13 MSD	SSHS-B1080B-SUB-6-8	Total/NA	Solid	3541	

Analysis Batch: 249261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79432-1	SSHS-B1248-SUB-10-12	Total/NA	Solid	EPA 8082A	249298
180-79432-3	SSHS-B1216-SUB-4-6	Total/NA	Solid	EPA 8082A	249298
180-79432-4	SSHS-B1242-SUB-6-8	Total/NA	Solid	EPA 8082A	249298
180-79432-5	SSHS-B1202-SUB-2-4	Total/NA	Solid	EPA 8082A	249298
180-79432-6	SSHS-B1202-SUB-4-6	Total/NA	Solid	EPA 8082A	249298
180-79432-7	SSHS-B1064-SUB-4-6	Total/NA	Solid	EPA 8082A	249298
180-79432-8	SSHS-B1243-SUB-6-8	Total/NA	Solid	EPA 8082A	249298
180-79432-9	SSHS-B1109-SUB-8-10	Total/NA	Solid	EPA 8082A	249298
MB 180-249186/2-C	Method Blank	Total/NA	Solid	EPA 8082A	249298

Cleanup Batch: 249297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79432-1	SSHS-B1248-SUB-10-12	Total/NA	Solid	3665A	249186
180-79432-2	SSHS-B1214-SUB-4-6	Total/NA	Solid	3665A	249186
180-79432-3	SSHS-B1216-SUB-4-6	Total/NA	Solid	3665A	249186
180-79432-4	SSHS-B1242-SUB-6-8	Total/NA	Solid	3665A	249186
180-79432-5	SSHS-B1202-SUB-2-4	Total/NA	Solid	3665A	249186
180-79432-6	SSHS-B1202-SUB-4-6	Total/NA	Solid	3665A	249186
180-79432-7	SSHS-B1064-SUB-4-6	Total/NA	Solid	3665A	249186
180-79432-8	SSHS-B1243-SUB-6-8	Total/NA	Solid	3665A	249186
180-79432-9	SSHS-B1109-SUB-8-10	Total/NA	Solid	3665A	249186
180-79432-10	SSHS-B1074-SUB-2-4	Total/NA	Solid	3665A	249186
180-79432-11	PS-FD-5	Total/NA	Solid	3665A	249186
180-79432-12	PS-FD-4	Total/NA	Solid	3665A	249186
180-79432-13	SSHS-B1080B-SUB-6-8	Total/NA	Solid	3665A	249186
180-79432-14	SSHS-B1194-SUB-4-6	Total/NA	Solid	3665A	249186

GC Semi VOA (Continued)

Cleanup Batch: 249297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79432-15	SSHS-B1231-SUB-4-6	Total/NA	Solid	3665A	249186
180-79432-16	SSHS-B1076-SUB-2-4	Total/NA	Solid	3665A	249186
180-79432-17	SSHS-B1226-SUB-2-4	Total/NA	Solid	3665A	249186
180-79432-18	SSHS-B1232-SUB-4-6	Total/NA	Solid	3665A	249186
MB 180-249186/2-C	Method Blank	Total/NA	Solid	3665A	249186
LCS 180-249186/1-C	Lab Control Sample	Total/NA	Solid	3665A	249186
180-79432-13 MS	SSHS-B1080B-SUB-6-8	Total/NA	Solid	3665A	249186
180-79432-13 MSD	SSHS-B1080B-SUB-6-8	Total/NA	Solid	3665A	249186

Cleanup Batch: 249298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79432-1	SSHS-B1248-SUB-10-12	Total/NA	Solid	3660B	249297
180-79432-2	SSHS-B1214-SUB-4-6	Total/NA	Solid	3660B	249297
180-79432-3	SSHS-B1216-SUB-4-6	Total/NA	Solid	3660B	249297
180-79432-4	SSHS-B1242-SUB-6-8	Total/NA	Solid	3660B	249297
180-79432-5	SSHS-B1202-SUB-2-4	Total/NA	Solid	3660B	249297
180-79432-6	SSHS-B1202-SUB-4-6	Total/NA	Solid	3660B	249297
180-79432-7	SSHS-B1064-SUB-4-6	Total/NA	Solid	3660B	249297
180-79432-8	SSHS-B1243-SUB-6-8	Total/NA	Solid	3660B	249297
180-79432-9	SSHS-B1109-SUB-8-10	Total/NA	Solid	3660B	249297
180-79432-10	SSHS-B1074-SUB-2-4	Total/NA	Solid	3660B	249297
180-79432-11	PS-FD-5	Total/NA	Solid	3660B	249297
180-79432-12	PS-FD-4	Total/NA	Solid	3660B	249297
180-79432-13	SSHS-B1080B-SUB-6-8	Total/NA	Solid	3660B	249297
180-79432-14	SSHS-B1194-SUB-4-6	Total/NA	Solid	3660B	249297
180-79432-15	SSHS-B1231-SUB-4-6	Total/NA	Solid	3660B	249297
180-79432-16	SSHS-B1076-SUB-2-4	Total/NA	Solid	3660B	249297
180-79432-17	SSHS-B1226-SUB-2-4	Total/NA	Solid	3660B	249297
180-79432-18	SSHS-B1232-SUB-4-6	Total/NA	Solid	3660B	249297
MB 180-249186/2-C	Method Blank	Total/NA	Solid	3660B	249297
LCS 180-249186/1-C	Lab Control Sample	Total/NA	Solid	3660B	249297
180-79432-13 MS	SSHS-B1080B-SUB-6-8	Total/NA	Solid	3660B	249297
180-79432-13 MSD	SSHS-B1080B-SUB-6-8	Total/NA	Solid	3660B	249297

Analysis Batch: 249419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79432-2	SSHS-B1214-SUB-4-6	Total/NA	Solid	EPA 8082A	249298
180-79432-10	SSHS-B1074-SUB-2-4	Total/NA	Solid	EPA 8082A	249298
180-79432-11	PS-FD-5	Total/NA	Solid	EPA 8082A	249298
180-79432-12	PS-FD-4	Total/NA	Solid	EPA 8082A	249298
180-79432-13	SSHS-B1080B-SUB-6-8	Total/NA	Solid	EPA 8082A	249298
180-79432-14	SSHS-B1194-SUB-4-6	Total/NA	Solid	EPA 8082A	249298
180-79432-15	SSHS-B1231-SUB-4-6	Total/NA	Solid	EPA 8082A	249298
180-79432-16	SSHS-B1076-SUB-2-4	Total/NA	Solid	EPA 8082A	249298
180-79432-17	SSHS-B1226-SUB-2-4	Total/NA	Solid	EPA 8082A	249298
180-79432-18	SSHS-B1232-SUB-4-6	Total/NA	Solid	EPA 8082A	249298
LCS 180-249186/1-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	249298
180-79432-13 MS	SSHS-B1080B-SUB-6-8	Total/NA	Solid	EPA 8082A	249298
180-79432-13 MSD	SSHS-B1080B-SUB-6-8	Total/NA	Solid	EPA 8082A	249298

General Chemistry

Analysis Batch: 249280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79432-1	SSHS-B1248-SUB-10-12	Total/NA	Solid	2540G	
180-79432-2	SSHS-B1214-SUB-4-6	Total/NA	Solid	2540G	
180-79432-3	SSHS-B1216-SUB-4-6	Total/NA	Solid	2540G	
180-79432-4	SSHS-B1242-SUB-6-8	Total/NA	Solid	2540G	
180-79432-5	SSHS-B1202-SUB-2-4	Total/NA	Solid	2540G	
180-79432-6	SSHS-B1202-SUB-4-6	Total/NA	Solid	2540G	
180-79432-7	SSHS-B1064-SUB-4-6	Total/NA	Solid	2540G	
180-79432-8	SSHS-B1243-SUB-6-8	Total/NA	Solid	2540G	
180-79432-9	SSHS-B1109-SUB-8-10	Total/NA	Solid	2540G	
180-79432-10	SSHS-B1074-SUB-2-4	Total/NA	Solid	2540G	
180-79432-11	PS-FD-5	Total/NA	Solid	2540G	
180-79432-12	PS-FD-4	Total/NA	Solid	2540G	
180-79432-13	SSHS-B1080B-SUB-6-8	Total/NA	Solid	2540G	
180-79432-14	SSHS-B1194-SUB-4-6	Total/NA	Solid	2540G	
180-79432-15	SSHS-B1231-SUB-4-6	Total/NA	Solid	2540G	
180-79432-16	SSHS-B1076-SUB-2-4	Total/NA	Solid	2540G	
180-79432-17	SSHS-B1226-SUB-2-4	Total/NA	Solid	2540G	
180-79432-18	SSHS-B1232-SUB-4-6	Total/NA	Solid	2540G	
180-79432-1 DU	SSHS-B1248-SUB-10-12	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 6/29/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JH
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Sample Specific Notes:
SSHS-B1248-SUB-10-12	6/29/18	0800	C	S	2	N	N	X	Phase 1
SSHS-B1214-SUB-4-6		0845	C	S	2	N	N	X	
SSHS-B1216-SUB-4-6		0900	C	S	2	N	N	X	
SS HS-B1242-SUB-6-8		0930	C	S	2	N	N	X	
SS HS-B1202-SUB-2-4		0945	C	S	2	N	N	X	
SSHS-B1202-SUB-4-6		0950	C	S	2	N	N	X	
SSHS-B1064-SUB-4-6		1020	C	S	2	N	N	X	
SSHS-B1243-SUB-6-8		1100	C	S	2	N	N	X	
SSHS-B1109-SUB-8-10		1130	C	S	2	N	N	X	
SSHS-B1074-SUB-2-4		1200	C	S	2	N	N	X	
PS-FD-5		X	C	S	2	N	N	X	
PS-PD-4		X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

1

180-79432 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained lor

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: Rush Phase 1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 6/29/18 1900	Received by: Dunlap Watson	Company: TAPitt	Date/Time: 6-30-18 10:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 6/29/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A		Sample Specific Notes:
SSHS-B1080B-SUB-6-8	6/29/18	1300	C	S	4	N	Y	X	Phase 1	PS-MS/MSD-5
SSHS-B1194-SUB-4-6	↓	1400	C	S	2	N	N	X		
SSHS-B1231-SUB-4-6		1430	C	S	2	N	N	X		
SSHS-B1076 SUB-2-4		1500	C	S	2	N	N	X		
SSHS-B1226 - SUB-2-4		1515	C	S	2	N	N	X		
SSHS-B1232-SUB-4-6		1545	C	S	2	N	N	X		
									JT 6/29/18	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Rush Phase 1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geosyntec	6/29/18	Denise Watson	TAPIII	6-30-18 10:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79432-1

Login Number: 79432
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79440-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/5/2018 4:43:09 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 180-79440-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79440-1

Receipt
The samples were received on 7/3/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 4.4º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-B1230-SUB-2-4 (180-79440-1), and SSHS-B1068-SUB-4-6 (180-79440-16). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: Samples SSHS-B1215-SUB-4-6 (180-79440-2) and PS-FD-7 (180-79440-11) had the recovery of a surrogate decachlorobiphenyl above the control limits on one column.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-249621 (CCV 180-249621/5) was below criteria for 2 peaks for aroclor 1260 and surrogate decachlorobiphenyl on column RTX-CLP2 . The associated sample results were reported from column RTX-CLP1 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The RPD between the matrix spike/matrix spike duplicate (MS/MSD) of sample SSHS-B1244-SUB-6-8 (180-79440-10) was above the control limits for aroclors 1016 and 1260. The recoveries were within the control limits.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79440-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79440-1	SSHS-B1230-SUB-2-4	Solid	06/30/18 09:30	07/03/18 09:49
180-79440-2	SSHS-B1215-SUB-4-6	Solid	06/30/18 10:30	07/03/18 09:49
180-79440-3	SSHS-B1221-SUB-6-8	Solid	06/30/18 10:00	07/03/18 09:49
180-79440-4	SSHS-B1077-SUB-2-4	Solid	06/30/18 12:00	07/03/18 09:49
180-79440-5	SSHS-B1160-SUB-10-12	Solid	06/30/18 12:30	07/03/18 09:49
180-79440-6	SSHS-B1105-SUB-4-6	Solid	06/30/18 13:00	07/03/18 09:49
180-79440-9	SSHS-B1079-SUB-4-6	Solid	06/30/18 14:45	07/03/18 09:49
180-79440-10	SSHS-B1244-SUB-6-8	Solid	07/01/18 13:45	07/03/18 09:49
180-79440-11	PS-FD-7	Solid	06/30/18 00:00	07/03/18 09:49
180-79440-12	PS-FD-6	Solid	06/30/18 00:00	07/03/18 09:49
180-79440-13	SSHS-B1204-SUB-2-4	Solid	07/01/18 08:45	07/03/18 09:49
180-79440-16	SSHS-B1068-SUB-4-6	Solid	07/01/18 09:50	07/03/18 09:49
180-79440-25	SSHS-B1236-SUB-4-6	Solid	07/02/18 08:00	07/03/18 09:49
180-79440-26	SSHS-B1236-SUB-6-8	Solid	07/02/18 08:05	07/03/18 09:49
180-79440-28	SSHS-B1235-SUB-4-6	Solid	07/02/18 08:45	07/03/18 09:49
180-79440-29	SSHS-B1237-SUB-4-6	Solid	07/02/18 09:30	07/03/18 09:49
180-79440-31	SSHS-B1075-SUB-2-4	Solid	07/02/18 10:00	07/03/18 09:49
180-79440-33	SSHS-B1206-SUB-2-4	Solid	07/02/18 11:30	07/03/18 09:49
180-79440-34	SSHS-B1206-SUB-4-6	Solid	07/02/18 11:35	07/03/18 09:49
180-79440-38	SSHS-B1233-SUB-4-6	Solid	07/02/18 13:30	07/03/18 09:49

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Client Sample ID: SSHS-B1230-SUB-2-4
Date Collected: 06/30/18 09:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1230-SUB-2-4
Date Collected: 06/30/18 09:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-1
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		20			249621	07/05/18 10:42	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1215-SUB-4-6
Date Collected: 06/30/18 10:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1215-SUB-4-6
Date Collected: 06/30/18 10:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-2
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 10:25	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1221-SUB-6-8
Date Collected: 06/30/18 10:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Client Sample ID: SSHS-B1221-SUB-6-8

Lab Sample ID: 180-79440-3
Date Collected: 06/30/18 10:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 10:45	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1077-SUB-2-4

Lab Sample ID: 180-79440-4
Date Collected: 06/30/18 12:00
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1077-SUB-2-4

Lab Sample ID: 180-79440-4
Date Collected: 06/30/18 12:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 11:04	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1160-SUB-10-12

Lab Sample ID: 180-79440-5
Date Collected: 06/30/18 12:30
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1160-SUB-10-12

Lab Sample ID: 180-79440-5
Date Collected: 06/30/18 12:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 11:24	DFE	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Client Sample ID: SSHS-B1105-SUB-4-6 — **Lab Sample ID: 180-79440-6**
Date Collected: 06/30/18 13:00 — **Matrix: Solid**
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1105-SUB-4-6 — **Lab Sample ID: 180-79440-6**
Date Collected: 06/30/18 13:00 — **Matrix: Solid**
Date Received: 07/03/18 09:49 — **Percent Solids: 77.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 11:44	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1079-SUB-4-6 — **Lab Sample ID: 180-79440-9**
Date Collected: 06/30/18 14:45 — **Matrix: Solid**
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1079-SUB-4-6 — **Lab Sample ID: 180-79440-9**
Date Collected: 06/30/18 14:45 — **Matrix: Solid**
Date Received: 07/03/18 09:49 — **Percent Solids: 88.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 12:03	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1244-SUB-6-8 — **Lab Sample ID: 180-79440-10**
Date Collected: 07/01/18 13:45 — **Matrix: Solid**
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Client Sample ID: SSHS-B1244-SUB-6-8

Lab Sample ID: 180-79440-10
Date Collected: 07/01/18 13:45
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 12:23	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: PS-FD-7

Lab Sample ID: 180-79440-11
Date Collected: 06/30/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-7

Lab Sample ID: 180-79440-11
Date Collected: 06/30/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 13:22	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: PS-FD-6

Lab Sample ID: 180-79440-12
Date Collected: 06/30/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-6

Lab Sample ID: 180-79440-12
Date Collected: 06/30/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 13:42	DFE	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Client Sample ID: SSHS-B1204-SUB-2-4
Date Collected: 07/01/18 08:45
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1204-SUB-2-4
Date Collected: 07/01/18 08:45
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-13
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 14:01	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1068-SUB-4-6
Date Collected: 07/01/18 09:50
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1068-SUB-4-6
Date Collected: 07/01/18 09:50
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-16
Matrix: Solid
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		5			249621	07/05/18 11:02	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1236-SUB-4-6
Date Collected: 07/02/18 08:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1236-SUB-4-6

Lab Sample ID: 180-79440-25
Date Collected: 07/02/18 08:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 14:41	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1236-SUB-6-8

Lab Sample ID: 180-79440-26
Date Collected: 07/02/18 08:05
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1236-SUB-6-8

Lab Sample ID: 180-79440-26
Date Collected: 07/02/18 08:05
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 15:00	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1235-SUB-4-6

Lab Sample ID: 180-79440-28
Date Collected: 07/02/18 08:45
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1235-SUB-4-6

Lab Sample ID: 180-79440-28
Date Collected: 07/02/18 08:45
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 15:20	DFE	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Client Sample ID: SSHS-B1237-SUB-4-6
Date Collected: 07/02/18 09:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1237-SUB-4-6
Date Collected: 07/02/18 09:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-29
Matrix: Solid
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 15:40	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1075-SUB-2-4
Date Collected: 07/02/18 10:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1075-SUB-2-4
Date Collected: 07/02/18 10:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-31
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 16:58	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1206-SUB-2-4
Date Collected: 07/02/18 11:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Client Sample ID: SSHS-B1206-SUB-2-4
Lab Sample ID: 180-79440-33
Date Collected: 07/02/18 11:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 15:57	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1206-SUB-4-6
Lab Sample ID: 180-79440-34
Date Collected: 07/02/18 11:35
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1206-SUB-4-6
Lab Sample ID: 180-79440-34
Date Collected: 07/02/18 11:35
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 17:18	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1233-SUB-4-6
Lab Sample ID: 180-79440-38
Date Collected: 07/02/18 13:30
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1233-SUB-4-6
Lab Sample ID: 180-79440-38
Date Collected: 07/02/18 13:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 17:38	DFE	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

Batch Type: Prep

DLL = Debbie Lowe

Batch Type: Analysis

DFE = David Eppinger

TAM = Tessa Mastalski

Client Sample ID: SSHS-B1230-SUB-2-4

Lab Sample ID: 180-79440-1

Date Collected: 06/30/18 09:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 87.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		380	120	ug/Kg	☼	07/03/18 16:40	07/05/18 10:42	20
PCB-1221	ND		380	250	ug/Kg	☼	07/03/18 16:40	07/05/18 10:42	20
PCB-1232	ND		380	230	ug/Kg	☼	07/03/18 16:40	07/05/18 10:42	20
PCB-1242	ND		380	230	ug/Kg	☼	07/03/18 16:40	07/05/18 10:42	20
PCB-1248	**40000**		380	300	ug/Kg	☼	07/03/18 16:40	07/05/18 10:42	20
PCB-1254	**16000**		380	260	ug/Kg	☼	07/03/18 16:40	07/05/18 10:42	20
PCB-1260	**920**		380	110	ug/Kg	☼	07/03/18 16:40	07/05/18 10:42	20
PCB-1262	ND		380	270	ug/Kg	☼	07/03/18 16:40	07/05/18 10:42	20
PCB-1268	ND		380	190	ug/Kg	☼	07/03/18 16:40	07/05/18 10:42	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*107*		*33 - 137*	*07/03/18 16:40*	*07/05/18 10:42*	*20*
DCB Decachlorobiphenyl (Surr)	*106*		*33 - 137*	*07/03/18 16:40*	*07/05/18 10:42*	*20*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*07/03/18 16:40*	*07/05/18 10:42*	*20*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/03/18 16:40*	*07/05/18 10:42*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.8**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**87.2**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1215-SUB-4-6

Lab Sample ID: 180-79440-2

Date Collected: 06/30/18 10:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 89.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/03/18 16:40	07/04/18 10:25	1
PCB-1221	ND		18	12	ug/Kg	☼	07/03/18 16:40	07/04/18 10:25	1
PCB-1232	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 10:25	1
PCB-1242	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 10:25	1
PCB-1248	**150**		18	14	ug/Kg	☼	07/03/18 16:40	07/04/18 10:25	1
PCB-1254	**330**		18	12	ug/Kg	☼	07/03/18 16:40	07/04/18 10:25	1
PCB-1260	ND		18	5.1	ug/Kg	☼	07/03/18 16:40	07/04/18 10:25	1
PCB-1262	ND		18	13	ug/Kg	☼	07/03/18 16:40	07/04/18 10:25	1
PCB-1268	ND		18	8.8	ug/Kg	☼	07/03/18 16:40	07/04/18 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*	*p*	*33 - 137*	*07/03/18 16:40*	*07/04/18 10:25*	*1*
DCB Decachlorobiphenyl (Surr)	*237*	*X*	*33 - 137*	*07/03/18 16:40*	*07/04/18 10:25*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/03/18 16:40*	*07/04/18 10:25*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/03/18 16:40*	*07/04/18 10:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**89.8**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1221-SUB-6-8

Lab Sample ID: 180-79440-3

Date Collected: 06/30/18 10:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 88.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	07/03/18 16:40	07/04/18 10:45	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 10:45	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 10:45	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 10:45	1
PCB-1248	**92**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 10:45	1
PCB-1254	**410**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 10:45	1
PCB-1260	ND		19	5.3	ug/Kg	☼	07/03/18 16:40	07/04/18 10:45	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 10:45	1
PCB-1268	ND		19	9.0	ug/Kg	☼	07/03/18 16:40	07/04/18 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/03/18 16:40*	*07/04/18 10:45*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*33 - 137*	*07/03/18 16:40*	*07/04/18 10:45*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/03/18 16:40*	*07/04/18 10:45*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*07/03/18 16:40*	*07/04/18 10:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**88.5**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1077-SUB-2-4

Lab Sample ID: 180-79440-4

Date Collected: 06/30/18 12:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 79.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.7	ug/Kg	☼	07/03/18 16:40	07/04/18 11:04	1
PCB-1221	ND		21	13	ug/Kg	☼	07/03/18 16:40	07/04/18 11:04	1
PCB-1232	ND		21	12	ug/Kg	☼	07/03/18 16:40	07/04/18 11:04	1
PCB-1242	ND		21	12	ug/Kg	☼	07/03/18 16:40	07/04/18 11:04	1
PCB-1248	**280**		21	16	ug/Kg	☼	07/03/18 16:40	07/04/18 11:04	1
PCB-1254	**170**		21	14	ug/Kg	☼	07/03/18 16:40	07/04/18 11:04	1
PCB-1260	ND		21	5.9	ug/Kg	☼	07/03/18 16:40	07/04/18 11:04	1
PCB-1262	ND		21	14	ug/Kg	☼	07/03/18 16:40	07/04/18 11:04	1
PCB-1268	ND		21	10	ug/Kg	☼	07/03/18 16:40	07/04/18 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*33 - 137*	*07/03/18 16:40*	*07/04/18 11:04*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*33 - 137*	*07/03/18 16:40*	*07/04/18 11:04*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/03/18 16:40*	*07/04/18 11:04*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*07/03/18 16:40*	*07/04/18 11:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.7**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**79.3**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1160-SUB-10-12

Lab Sample ID: 180-79440-5

Date Collected: 06/30/18 12:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 82.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	07/03/18 16:40	07/04/18 11:24	1
PCB-1221	ND		20	13	ug/Kg	☼	07/03/18 16:40	07/04/18 11:24	1
PCB-1232	ND		20	12	ug/Kg	☼	07/03/18 16:40	07/04/18 11:24	1
PCB-1242	ND		20	12	ug/Kg	☼	07/03/18 16:40	07/04/18 11:24	1
PCB-1248	**17**	**J**	20	16	ug/Kg	☼	07/03/18 16:40	07/04/18 11:24	1
PCB-1254	ND		20	14	ug/Kg	☼	07/03/18 16:40	07/04/18 11:24	1
PCB-1260	ND		20	5.6	ug/Kg	☼	07/03/18 16:40	07/04/18 11:24	1
PCB-1262	ND		20	14	ug/Kg	☼	07/03/18 16:40	07/04/18 11:24	1
PCB-1268	ND		20	9.6	ug/Kg	☼	07/03/18 16:40	07/04/18 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/03/18 16:40*	*07/04/18 11:24*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*07/03/18 16:40*	*07/04/18 11:24*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/03/18 16:40*	*07/04/18 11:24*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/03/18 16:40*	*07/04/18 11:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.1**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**82.9**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1105-SUB-4-6

Lab Sample ID: 180-79440-6

Date Collected: 06/30/18 13:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 77.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	07/03/18 16:40	07/04/18 11:44	1
PCB-1221	ND		21	14	ug/Kg	☼	07/03/18 16:40	07/04/18 11:44	1
PCB-1232	ND		21	13	ug/Kg	☼	07/03/18 16:40	07/04/18 11:44	1
PCB-1242	ND		21	13	ug/Kg	☼	07/03/18 16:40	07/04/18 11:44	1
PCB-1248	ND		21	17	ug/Kg	☼	07/03/18 16:40	07/04/18 11:44	1
PCB-1254	ND		21	15	ug/Kg	☼	07/03/18 16:40	07/04/18 11:44	1
PCB-1260	ND		21	6.1	ug/Kg	☼	07/03/18 16:40	07/04/18 11:44	1
PCB-1262	ND		21	15	ug/Kg	☼	07/03/18 16:40	07/04/18 11:44	1
PCB-1268	ND		21	10	ug/Kg	☼	07/03/18 16:40	07/04/18 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*07/03/18 16:40*	*07/04/18 11:44*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/03/18 16:40*	*07/04/18 11:44*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/03/18 16:40*	*07/04/18 11:44*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/03/18 16:40*	*07/04/18 11:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.9**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**77.1**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1079-SUB-4-6

Lab Sample ID: 180-79440-9

Date Collected: 06/30/18 14:45
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 88.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/03/18 16:40	07/04/18 12:03	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 12:03	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 12:03	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 12:03	1
PCB-1248	**4300**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 12:03	1
PCB-1254	**4900**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 12:03	1
PCB-1260	**570**		19	5.4	ug/Kg	☼	07/03/18 16:40	07/04/18 12:03	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 12:03	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/03/18 16:40	07/04/18 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*	*p*	*33 - 137*	*07/03/18 16:40*	*07/04/18 12:03*	*1*
DCB Decachlorobiphenyl (Surr)	*134*		*33 - 137*	*07/03/18 16:40*	*07/04/18 12:03*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*07/03/18 16:40*	*07/04/18 12:03*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*07/03/18 16:40*	*07/04/18 12:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**88.4**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1244-SUB-6-8

Lab Sample ID: 180-79440-10

Date Collected: 07/01/18 13:45
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 85.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	19	6.2	ug/Kg	☼	07/03/18 16:40	07/04/18 12:23	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 12:23	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 12:23	1
PCB-1242	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 12:23	1
PCB-1248	**65**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 12:23	1
PCB-1254	**30**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 12:23	1
PCB-1260	ND	F2	19	5.5	ug/Kg	☼	07/03/18 16:40	07/04/18 12:23	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 12:23	1
PCB-1268	ND		19	9.3	ug/Kg	☼	07/03/18 16:40	07/04/18 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*07/03/18 16:40*	*07/04/18 12:23*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/03/18 16:40*	*07/04/18 12:23*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/03/18 16:40*	*07/04/18 12:23*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/03/18 16:40*	*07/04/18 12:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.4**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**85.6**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: PS-FD-7

Date Collected: 06/30/18 00:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-11

Matrix: Solid
Percent Solids: 88.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/03/18 16:40	07/04/18 13:22	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 13:22	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 13:22	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 13:22	1
PCB-1248	**4200**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 13:22	1
PCB-1254	**3800**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 13:22	1
PCB-1260	**480**		19	5.3	ug/Kg	☼	07/03/18 16:40	07/04/18 13:22	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 13:22	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/03/18 16:40	07/04/18 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*	*p*	*33 - 137*	*07/03/18 16:40*	*07/04/18 13:22*	*1*
DCB Decachlorobiphenyl (Surr)	*424*	*X*	*33 - 137*	*07/03/18 16:40*	*07/04/18 13:22*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/03/18 16:40*	*07/04/18 13:22*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/03/18 16:40*	*07/04/18 13:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**88.4**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: PS-FD-6

Date Collected: 06/30/18 00:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-12

Matrix: Solid
Percent Solids: 88.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/03/18 16:40	07/04/18 13:42	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 13:42	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 13:42	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 13:42	1
PCB-1248	**280**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 13:42	1
PCB-1254	**450**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 13:42	1
PCB-1260	**72**		19	5.3	ug/Kg	☼	07/03/18 16:40	07/04/18 13:42	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 13:42	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/03/18 16:40	07/04/18 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*07/03/18 16:40*	*07/04/18 13:42*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/03/18 16:40*	*07/04/18 13:42*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*07/03/18 16:40*	*07/04/18 13:42*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/03/18 16:40*	*07/04/18 13:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**88.9**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1204-SUB-2-4

Lab Sample ID: 180-79440-13

Date Collected: 07/01/18 08:45
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 89.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/03/18 16:40	07/04/18 14:01	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 14:01	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 14:01	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 14:01	1
PCB-1248	**1700**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 14:01	1
PCB-1254	**2400**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 14:01	1
PCB-1260	**320**		19	5.3	ug/Kg	☼	07/03/18 16:40	07/04/18 14:01	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 14:01	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/03/18 16:40	07/04/18 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*07/03/18 16:40*	*07/04/18 14:01*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*07/03/18 16:40*	*07/04/18 14:01*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*07/03/18 16:40*	*07/04/18 14:01*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/03/18 16:40*	*07/04/18 14:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.8**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**89.2**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1068-SUB-4-6

Lab Sample ID: 180-79440-16

Date Collected: 07/01/18 09:50
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 89.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		90	29	ug/Kg	☼	07/03/18 16:40	07/05/18 11:02	5
PCB-1221	ND		90	58	ug/Kg	☼	07/03/18 16:40	07/05/18 11:02	5
PCB-1232	ND		90	53	ug/Kg	☼	07/03/18 16:40	07/05/18 11:02	5
PCB-1242	ND		90	54	ug/Kg	☼	07/03/18 16:40	07/05/18 11:02	5
PCB-1248	**9100**		90	71	ug/Kg	☼	07/03/18 16:40	07/05/18 11:02	5
PCB-1254	**4900**		90	61	ug/Kg	☼	07/03/18 16:40	07/05/18 11:02	5
PCB-1260	**670**		90	26	ug/Kg	☼	07/03/18 16:40	07/05/18 11:02	5
PCB-1262	ND		90	63	ug/Kg	☼	07/03/18 16:40	07/05/18 11:02	5
PCB-1268	ND		90	44	ug/Kg	☼	07/03/18 16:40	07/05/18 11:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*07/03/18 16:40*	*07/05/18 11:02*	*5*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/03/18 16:40*	*07/05/18 11:02*	*5*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/03/18 16:40*	*07/05/18 11:02*	*5*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*07/03/18 16:40*	*07/05/18 11:02*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.1**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**89.9**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1236-SUB-4-6

Lab Sample ID: 180-79440-25

Date Collected: 07/02/18 08:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 87.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/03/18 16:40	07/04/18 14:41	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 14:41	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 14:41	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 14:41	1
PCB-1248	**1600**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 14:41	1
PCB-1254	**900**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 14:41	1
PCB-1260	**100**		19	5.4	ug/Kg	☼	07/03/18 16:40	07/04/18 14:41	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 14:41	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/03/18 16:40	07/04/18 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*07/03/18 16:40*	*07/04/18 14:41*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*07/03/18 16:40*	*07/04/18 14:41*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*07/03/18 16:40*	*07/04/18 14:41*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/03/18 16:40*	*07/04/18 14:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.3**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**87.7**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1236-SUB-6-8

Lab Sample ID: 180-79440-26

Date Collected: 07/02/18 08:05
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 89.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/03/18 16:40	07/04/18 15:00	1
PCB-1221	ND		18	12	ug/Kg	☼	07/03/18 16:40	07/04/18 15:00	1
PCB-1232	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 15:00	1
PCB-1242	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 15:00	1
PCB-1248	**470**		18	14	ug/Kg	☼	07/03/18 16:40	07/04/18 15:00	1
PCB-1254	**260**		18	12	ug/Kg	☼	07/03/18 16:40	07/04/18 15:00	1
PCB-1260	**25**		18	5.1	ug/Kg	☼	07/03/18 16:40	07/04/18 15:00	1
PCB-1262	ND		18	13	ug/Kg	☼	07/03/18 16:40	07/04/18 15:00	1
PCB-1268	ND		18	8.8	ug/Kg	☼	07/03/18 16:40	07/04/18 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*33 - 137*	*07/03/18 16:40*	*07/04/18 15:00*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*33 - 137*	*07/03/18 16:40*	*07/04/18 15:00*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/03/18 16:40*	*07/04/18 15:00*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/03/18 16:40*	*07/04/18 15:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**89.3**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1235-SUB-4-6

Lab Sample ID: 180-79440-28

Date Collected: 07/02/18 08:45
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 90.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	07/03/18 16:40	07/04/18 15:20	1
PCB-1221	ND		18	12	ug/Kg	☼	07/03/18 16:40	07/04/18 15:20	1
PCB-1232	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 15:20	1
PCB-1242	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 15:20	1
PCB-1248	**76**		18	15	ug/Kg	☼	07/03/18 16:40	07/04/18 15:20	1
PCB-1254	**44**		18	13	ug/Kg	☼	07/03/18 16:40	07/04/18 15:20	1
PCB-1260	**12**	**J**	18	5.2	ug/Kg	☼	07/03/18 16:40	07/04/18 15:20	1
PCB-1262	ND		18	13	ug/Kg	☼	07/03/18 16:40	07/04/18 15:20	1
PCB-1268	ND		18	8.9	ug/Kg	☼	07/03/18 16:40	07/04/18 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*33 - 137*	*07/03/18 16:40*	*07/04/18 15:20*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*33 - 137*	*07/03/18 16:40*	*07/04/18 15:20*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*07/03/18 16:40*	*07/04/18 15:20*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*07/03/18 16:40*	*07/04/18 15:20*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**90.7**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1237-SUB-4-6

Lab Sample ID: 180-79440-29

Date Collected: 07/02/18 09:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 86.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/03/18 16:40	07/04/18 15:40	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 15:40	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 15:40	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 15:40	1
PCB-1248	**680**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 15:40	1
PCB-1254	**730**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 15:40	1
PCB-1260	**290**		19	5.3	ug/Kg	☼	07/03/18 16:40	07/04/18 15:40	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 15:40	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/03/18 16:40	07/04/18 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*	*07/03/18 16:40*	*07/04/18 15:40*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*33 - 137*	*07/03/18 16:40*	*07/04/18 15:40*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/03/18 16:40*	*07/04/18 15:40*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/03/18 16:40*	*07/04/18 15:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.4**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**86.6**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1075-SUB-2-4

Lab Sample ID: 180-79440-31

Date Collected: 07/02/18 10:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 90.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/03/18 16:40	07/04/18 16:58	1
PCB-1221	ND		18	12	ug/Kg	☼	07/03/18 16:40	07/04/18 16:58	1
PCB-1232	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 16:58	1
PCB-1242	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 16:58	1
PCB-1248	**2600**		18	14	ug/Kg	☼	07/03/18 16:40	07/04/18 16:58	1
PCB-1254	**1500**		18	12	ug/Kg	☼	07/03/18 16:40	07/04/18 16:58	1
PCB-1260	**170**		18	5.2	ug/Kg	☼	07/03/18 16:40	07/04/18 16:58	1
PCB-1262	ND		18	13	ug/Kg	☼	07/03/18 16:40	07/04/18 16:58	1
PCB-1268	ND		18	8.8	ug/Kg	☼	07/03/18 16:40	07/04/18 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*33 - 137*	*07/03/18 16:40*	*07/04/18 16:58*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*33 - 137*	*07/03/18 16:40*	*07/04/18 16:58*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*44 - 114*	*07/03/18 16:40*	*07/04/18 16:58*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*44 - 114*	*07/03/18 16:40*	*07/04/18 16:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**90.6**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1206-SUB-2-4

Lab Sample ID: 180-79440-33

Date Collected: 07/02/18 11:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 87.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	07/03/18 16:42	07/04/18 15:57	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:42	07/04/18 15:57	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:42	07/04/18 15:57	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:42	07/04/18 15:57	1
PCB-1248	**310**		19	15	ug/Kg	☼	07/03/18 16:42	07/04/18 15:57	1
PCB-1254	**240**		19	13	ug/Kg	☼	07/03/18 16:42	07/04/18 15:57	1
PCB-1260	**65**	p	19	5.4	ug/Kg	☼	07/03/18 16:42	07/04/18 15:57	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:42	07/04/18 15:57	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/03/18 16:42	07/04/18 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*33 - 137*	*07/03/18 16:42*	*07/04/18 15:57*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/03/18 16:42*	*07/04/18 15:57*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/03/18 16:42*	*07/04/18 15:57*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/03/18 16:42*	*07/04/18 15:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**87.9**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1206-SUB-4-6

Lab Sample ID: 180-79440-34

Date Collected: 07/02/18 11:35
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 91.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.8	ug/Kg	☼	07/03/18 16:40	07/04/18 17:18	1
PCB-1221	ND		18	12	ug/Kg	☼	07/03/18 16:40	07/04/18 17:18	1
PCB-1232	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 17:18	1
PCB-1242	ND		18	11	ug/Kg	☼	07/03/18 16:40	07/04/18 17:18	1
PCB-1248	**490**		18	14	ug/Kg	☼	07/03/18 16:40	07/04/18 17:18	1
PCB-1254	**550**		18	12	ug/Kg	☼	07/03/18 16:40	07/04/18 17:18	1
PCB-1260	**86**		18	5.1	ug/Kg	☼	07/03/18 16:40	07/04/18 17:18	1
PCB-1262	ND		18	13	ug/Kg	☼	07/03/18 16:40	07/04/18 17:18	1
PCB-1268	ND		18	8.7	ug/Kg	☼	07/03/18 16:40	07/04/18 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*33 - 137*	*07/03/18 16:40*	*07/04/18 17:18*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/03/18 16:40*	*07/04/18 17:18*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*07/03/18 16:40*	*07/04/18 17:18*	*1*
Tetrachloro-m-xylene (Surr)	*63*		*44 - 114*	*07/03/18 16:40*	*07/04/18 17:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**91.7**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1233-SUB-4-6

Lab Sample ID: 180-79440-38

Date Collected: 07/02/18 13:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	07/03/18 16:40	07/04/18 17:38	1
PCB-1221	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 17:38	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 17:38	1
PCB-1242	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 17:38	1
PCB-1248	**150**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 17:38	1
PCB-1254	**210**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 17:38	1
PCB-1260	**33**		19	5.5	ug/Kg	☼	07/03/18 16:40	07/04/18 17:38	1
PCB-1262	ND		19	14	ug/Kg	☼	07/03/18 16:40	07/04/18 17:38	1
PCB-1268	ND		19	9.4	ug/Kg	☼	07/03/18 16:40	07/04/18 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*33 - 137*	*07/03/18 16:40*	*07/04/18 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*33 - 137*	*07/03/18 16:40*	*07/04/18 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*07/03/18 16:40*	*07/04/18 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*63*		*44 - 114*	*07/03/18 16:40*	*07/04/18 17:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.6**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**84.4**		0.1	0.1	%			07/03/18 12:38	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-249583/1-C
Matrix: Solid
Analysis Batch: 249594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1221	ND		17	11	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1232	ND		17	9.9	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1242	ND		17	10	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1248	ND		17	13	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1254	ND		17	11	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1260	ND		17	4.7	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1262	ND		17	12	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1268	ND		17	8.1	ug/Kg		07/03/18 16:40	07/04/18 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/03/18 16:40*	*07/04/18 09:46*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*	*07/03/18 16:40*	*07/04/18 09:46*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*07/03/18 16:40*	*07/04/18 09:46*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/03/18 16:40*	*07/04/18 09:46*	*1*

Lab Sample ID: LCS 180-249583/2-C
Matrix: Solid
Analysis Batch: 249594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249583

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1110		ug/Kg		83	46 - 122		
PCB-1260			1330	951		ug/Kg		71	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*

Lab Sample ID: 180-79440-10 MS
Matrix: Solid
Analysis Batch: 249594

Client Sample ID: SSHS-B1244-SUB-6-8
Prep Type: Total/NA
Prep Batch: 249583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND	F2	1540	1030		ug/Kg	☼	67	46 - 122		
PCB-1260	ND	F2	1540	881		ug/Kg	☼	57	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*59*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*58*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*59*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-79440-10 MSD
Matrix: Solid
Analysis Batch: 249594

Client Sample ID: SSHS-B1244-SUB-6-8
Prep Type: Total/NA
Prep Batch: 249583

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F2	1550	1350	F2	ug/Kg	☼	87	46 - 122	27	23
PCB-1260	ND	F2	1550	1140	F2	ug/Kg	☼	74	51 - 119	26	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*

Lab Sample ID: MB 180-249584/1-C
Matrix: Solid
Analysis Batch: 249597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1221	ND		17	11	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1232	ND		17	9.9	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1242	ND		17	10	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1248	ND		17	13	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1254	ND		17	11	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1260	ND		17	4.7	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1262	ND		17	12	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1268	ND		17	8.1	ug/Kg		07/03/18 16:42	07/04/18 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*07/03/18 16:42*	*07/04/18 11:53*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*07/03/18 16:42*	*07/04/18 11:53*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*	*07/03/18 16:42*	*07/04/18 11:53*	*1*
Tetrachloro-m-xylene (Surr)	*112*		*44 - 114*	*07/03/18 16:42*	*07/04/18 11:53*	*1*

Lab Sample ID: LCS 180-249584/2-C
Matrix: Solid
Analysis Batch: 249597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249584

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1320		ug/Kg		99	46 - 122		
PCB-1260			1330	1160		ug/Kg		87	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*103*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*107*		*44 - 114*

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-1

Method: 2540G - SM 2540G

Lab Sample ID: 180-79440-1 DU
Matrix: Solid
Analysis Batch: 249477

Client Sample ID: SSHS-B1230-SUB-2-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.8			12.3		%				4	20
Percent Solids	87.2			87.7		%				0.5	20

Lab Sample ID: 180-79440-11 DU
Matrix: Solid
Analysis Batch: 249477

Client Sample ID: PS-FD-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.6			11.3		%				3	20
Percent Solids	88.4			88.7		%				0.3	20

Lab Sample ID: 180-79440-31 DU
Matrix: Solid
Analysis Batch: 249499

Client Sample ID: SSHS-B1075-SUB-2-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.4			9.7		%				4	20
Percent Solids	90.6			90.3		%				0.4	20

GC Semi VOA

Prep Batch: 249583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-1	SSHS-B1230-SUB-2-4	Total/NA	Solid	3541	
180-79440-2	SSHS-B1215-SUB-4-6	Total/NA	Solid	3541	
180-79440-3	SSHS-B1221-SUB-6-8	Total/NA	Solid	3541	
180-79440-4	SSHS-B1077-SUB-2-4	Total/NA	Solid	3541	
180-79440-5	SSHS-B1160-SUB-10-12	Total/NA	Solid	3541	
180-79440-6	SSHS-B1105-SUB-4-6	Total/NA	Solid	3541	
180-79440-9	SSHS-B1079-SUB-4-6	Total/NA	Solid	3541	
180-79440-10	SSHS-B1244-SUB-6-8	Total/NA	Solid	3541	
180-79440-11	PS-FD-7	Total/NA	Solid	3541	
180-79440-12	PS-FD-6	Total/NA	Solid	3541	
180-79440-13	SSHS-B1204-SUB-2-4	Total/NA	Solid	3541	
180-79440-16	SSHS-B1068-SUB-4-6	Total/NA	Solid	3541	
180-79440-25	SSHS-B1236-SUB-4-6	Total/NA	Solid	3541	
180-79440-26	SSHS-B1236-SUB-6-8	Total/NA	Solid	3541	
180-79440-28	SSHS-B1235-SUB-4-6	Total/NA	Solid	3541	
180-79440-29	SSHS-B1237-SUB-4-6	Total/NA	Solid	3541	
180-79440-31	SSHS-B1075-SUB-2-4	Total/NA	Solid	3541	
180-79440-34	SSHS-B1206-SUB-4-6	Total/NA	Solid	3541	
180-79440-38	SSHS-B1233-SUB-4-6	Total/NA	Solid	3541	
MB 180-249583/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-249583/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-79440-10 MS	SSHS-B1244-SUB-6-8	Total/NA	Solid	3541	
180-79440-10 MSD	SSHS-B1244-SUB-6-8	Total/NA	Solid	3541	

Prep Batch: 249584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-33	SSHS-B1206-SUB-2-4	Total/NA	Solid	3541	
MB 180-249584/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-249584/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 249592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-1	SSHS-B1230-SUB-2-4	Total/NA	Solid	3665A	249583
180-79440-2	SSHS-B1215-SUB-4-6	Total/NA	Solid	3665A	249583
180-79440-3	SSHS-B1221-SUB-6-8	Total/NA	Solid	3665A	249583
180-79440-4	SSHS-B1077-SUB-2-4	Total/NA	Solid	3665A	249583
180-79440-5	SSHS-B1160-SUB-10-12	Total/NA	Solid	3665A	249583
180-79440-6	SSHS-B1105-SUB-4-6	Total/NA	Solid	3665A	249583
180-79440-9	SSHS-B1079-SUB-4-6	Total/NA	Solid	3665A	249583
180-79440-10	SSHS-B1244-SUB-6-8	Total/NA	Solid	3665A	249583
180-79440-11	PS-FD-7	Total/NA	Solid	3665A	249583
180-79440-12	PS-FD-6	Total/NA	Solid	3665A	249583
180-79440-13	SSHS-B1204-SUB-2-4	Total/NA	Solid	3665A	249583
180-79440-16	SSHS-B1068-SUB-4-6	Total/NA	Solid	3665A	249583
180-79440-25	SSHS-B1236-SUB-4-6	Total/NA	Solid	3665A	249583
180-79440-26	SSHS-B1236-SUB-6-8	Total/NA	Solid	3665A	249583
180-79440-28	SSHS-B1235-SUB-4-6	Total/NA	Solid	3665A	249583
180-79440-29	SSHS-B1237-SUB-4-6	Total/NA	Solid	3665A	249583
180-79440-31	SSHS-B1075-SUB-2-4	Total/NA	Solid	3665A	249583
180-79440-34	SSHS-B1206-SUB-4-6	Total/NA	Solid	3665A	249583
180-79440-38	SSHS-B1233-SUB-4-6	Total/NA	Solid	3665A	249583

GC Semi VOA (Continued)

Cleanup Batch: 249592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-249583/1-C	Method Blank	Total/NA	Solid	3665A	249583
LCS 180-249583/2-C	Lab Control Sample	Total/NA	Solid	3665A	249583
180-79440-10 MS	SSHS-B1244-SUB-6-8	Total/NA	Solid	3665A	249583
180-79440-10 MSD	SSHS-B1244-SUB-6-8	Total/NA	Solid	3665A	249583

Cleanup Batch: 249593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-1	SSHS-B1230-SUB-2-4	Total/NA	Solid	3660B	249592
180-79440-2	SSHS-B1215-SUB-4-6	Total/NA	Solid	3660B	249592
180-79440-3	SSHS-B1221-SUB-6-8	Total/NA	Solid	3660B	249592
180-79440-4	SSHS-B1077-SUB-2-4	Total/NA	Solid	3660B	249592
180-79440-5	SSHS-B1160-SUB-10-12	Total/NA	Solid	3660B	249592
180-79440-6	SSHS-B1105-SUB-4-6	Total/NA	Solid	3660B	249592
180-79440-9	SSHS-B1079-SUB-4-6	Total/NA	Solid	3660B	249592
180-79440-10	SSHS-B1244-SUB-6-8	Total/NA	Solid	3660B	249592
180-79440-11	PS-FD-7	Total/NA	Solid	3660B	249592
180-79440-12	PS-FD-6	Total/NA	Solid	3660B	249592
180-79440-13	SSHS-B1204-SUB-2-4	Total/NA	Solid	3660B	249592
180-79440-16	SSHS-B1068-SUB-4-6	Total/NA	Solid	3660B	249592
180-79440-25	SSHS-B1236-SUB-4-6	Total/NA	Solid	3660B	249592
180-79440-26	SSHS-B1236-SUB-6-8	Total/NA	Solid	3660B	249592
180-79440-28	SSHS-B1235-SUB-4-6	Total/NA	Solid	3660B	249592
180-79440-29	SSHS-B1237-SUB-4-6	Total/NA	Solid	3660B	249592
180-79440-31	SSHS-B1075-SUB-2-4	Total/NA	Solid	3660B	249592
180-79440-34	SSHS-B1206-SUB-4-6	Total/NA	Solid	3660B	249592
180-79440-38	SSHS-B1233-SUB-4-6	Total/NA	Solid	3660B	249592
MB 180-249583/1-C	Method Blank	Total/NA	Solid	3660B	249592
LCS 180-249583/2-C	Lab Control Sample	Total/NA	Solid	3660B	249592
180-79440-10 MS	SSHS-B1244-SUB-6-8	Total/NA	Solid	3660B	249592
180-79440-10 MSD	SSHS-B1244-SUB-6-8	Total/NA	Solid	3660B	249592

Analysis Batch: 249594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-2	SSHS-B1215-SUB-4-6	Total/NA	Solid	EPA 8082A	249593
180-79440-3	SSHS-B1221-SUB-6-8	Total/NA	Solid	EPA 8082A	249593
180-79440-4	SSHS-B1077-SUB-2-4	Total/NA	Solid	EPA 8082A	249593
180-79440-5	SSHS-B1160-SUB-10-12	Total/NA	Solid	EPA 8082A	249593
180-79440-6	SSHS-B1105-SUB-4-6	Total/NA	Solid	EPA 8082A	249593
180-79440-9	SSHS-B1079-SUB-4-6	Total/NA	Solid	EPA 8082A	249593
180-79440-10	SSHS-B1244-SUB-6-8	Total/NA	Solid	EPA 8082A	249593
180-79440-11	PS-FD-7	Total/NA	Solid	EPA 8082A	249593
180-79440-12	PS-FD-6	Total/NA	Solid	EPA 8082A	249593
180-79440-13	SSHS-B1204-SUB-2-4	Total/NA	Solid	EPA 8082A	249593
180-79440-25	SSHS-B1236-SUB-4-6	Total/NA	Solid	EPA 8082A	249593
180-79440-26	SSHS-B1236-SUB-6-8	Total/NA	Solid	EPA 8082A	249593
180-79440-28	SSHS-B1235-SUB-4-6	Total/NA	Solid	EPA 8082A	249593
180-79440-29	SSHS-B1237-SUB-4-6	Total/NA	Solid	EPA 8082A	249593
180-79440-31	SSHS-B1075-SUB-2-4	Total/NA	Solid	EPA 8082A	249593
180-79440-34	SSHS-B1206-SUB-4-6	Total/NA	Solid	EPA 8082A	249593
180-79440-38	SSHS-B1233-SUB-4-6	Total/NA	Solid	EPA 8082A	249593
MB 180-249583/1-C	Method Blank	Total/NA	Solid	EPA 8082A	249593

GC Semi VOA (Continued)

Analysis Batch: 249594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-249583/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	249593
180-79440-10 MS	SSHS-B1244-SUB-6-8	Total/NA	Solid	EPA 8082A	249593
180-79440-10 MSD	SSHS-B1244-SUB-6-8	Total/NA	Solid	EPA 8082A	249593

Cleanup Batch: 249595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-33	SSHS-B1206-SUB-2-4	Total/NA	Solid	3665A	249584
MB 180-249584/1-C	Method Blank	Total/NA	Solid	3665A	249584
LCS 180-249584/2-C	Lab Control Sample	Total/NA	Solid	3665A	249584

Cleanup Batch: 249596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-33	SSHS-B1206-SUB-2-4	Total/NA	Solid	3660B	249595
MB 180-249584/1-C	Method Blank	Total/NA	Solid	3660B	249595
LCS 180-249584/2-C	Lab Control Sample	Total/NA	Solid	3660B	249595

Analysis Batch: 249597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-33	SSHS-B1206-SUB-2-4	Total/NA	Solid	EPA 8082A	249596
MB 180-249584/1-C	Method Blank	Total/NA	Solid	EPA 8082A	249596
LCS 180-249584/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	249596

Analysis Batch: 249621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-1	SSHS-B1230-SUB-2-4	Total/NA	Solid	EPA 8082A	249593
180-79440-16	SSHS-B1068-SUB-4-6	Total/NA	Solid	EPA 8082A	249593

General Chemistry

Analysis Batch: 249477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-1	SSHS-B1230-SUB-2-4	Total/NA	Solid	2540G	
180-79440-2	SSHS-B1215-SUB-4-6	Total/NA	Solid	2540G	
180-79440-3	SSHS-B1221-SUB-6-8	Total/NA	Solid	2540G	
180-79440-4	SSHS-B1077-SUB-2-4	Total/NA	Solid	2540G	
180-79440-5	SSHS-B1160-SUB-10-12	Total/NA	Solid	2540G	
180-79440-6	SSHS-B1105-SUB-4-6	Total/NA	Solid	2540G	
180-79440-9	SSHS-B1079-SUB-4-6	Total/NA	Solid	2540G	
180-79440-10	SSHS-B1244-SUB-6-8	Total/NA	Solid	2540G	
180-79440-11	PS-FD-7	Total/NA	Solid	2540G	
180-79440-12	PS-FD-6	Total/NA	Solid	2540G	
180-79440-13	SSHS-B1204-SUB-2-4	Total/NA	Solid	2540G	
180-79440-16	SSHS-B1068-SUB-4-6	Total/NA	Solid	2540G	
180-79440-1 DU	SSHS-B1230-SUB-2-4	Total/NA	Solid	2540G	
180-79440-11 DU	PS-FD-7	Total/NA	Solid	2540G	

Analysis Batch: 249499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-25	SSHS-B1236-SUB-4-6	Total/NA	Solid	2540G	
180-79440-26	SSHS-B1236-SUB-6-8	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 249499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-28	SSHS-B1235-SUB-4-6	Total/NA	Solid	2540G	
180-79440-29	SSHS-B1237-SUB-4-6	Total/NA	Solid	2540G	
180-79440-31	SSHS-B1075-SUB-2-4	Total/NA	Solid	2540G	
180-79440-33	SSHS-B1206-SUB-2-4	Total/NA	Solid	2540G	
180-79440-34	SSHS-B1206-SUB-4-6	Total/NA	Solid	2540G	
180-79440-38	SSHS-B1233-SUB-4-6	Total/NA	Solid	2540G	
180-79440-31 DU	SSHS-B1075-SUB-2-4	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/2/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: 7/2/18
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	Sample Specific Notes:
SSHS-B1236-SUB-4-6	7/2/18	0800	C	S	2	N	N	X	
SSHS-B1236-SUB-6-8		0805	C	S	2	N	N	X	
SSHS-B1223-SUB-6-8		0830	C	S	2	N	N	X	
SSHS-B1235-SUB-4-6		0845	C	S	2	N	N	X	
SSHS-B1237-SUB-4-6		0930	C	S	2	N	N	X	
SSHS-B1237-SUB-8-10		0935	C	S	2	N	N	X	
SSHS-B1075-SUB-2-4		1000	C	S	2	N	N	X	
SSHS-B1078-SUB-2-4		1030	C	S	4	N	N	X	7_2_MS/MSD
SSHS-B1206-SUB-2-4		1130	C	S	2	N	N	X	
SSHS-B1206-SUB-6-8 4-6		1135	C	S	2	N	N	X	
SSHS-B1220-SUB FD 0711 -6-8		1200	C	S	2	N	N	X	
7_2_FD_1		X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 7/2/18 1600	Received by:	Company: TAPH	Date/Time: 7-3-18 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/2/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JJ
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Sample Specific Notes:
SSHS-B1207-SUB-2-4	7/2/18	1300	C	S	2	N	N	Y	
SSHS-B1233-SUB-4-6	↓	1330	C	S	3	N	N	Y	
7_2_FR2	↓	X	C	S	2	N	N	Y	

JT 7/2/18

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geosyntec	7/2/18 1800	Debbie Watson	TAPitt	7-3-18
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9:15
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/1/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Al metals -6010C	Hg -7471B	Sample Specific Notes:
SSHS-B1204-SUB-2-4	7/1/18	0845	C	S	2	N	N	X			
SSHS-B1219-SUB-4-6		0915	C	S	2	N	N	X			
SSHS-B1219-SUB-10-12		0920	C	S	2	N	N	X			
SSHS-B1068-SUB-4-6		0950	C	S	2	N	N	X			
SSHS-B1068-SUB-10-12		1000	C	S	2	N	N	X			
SSHS-B1224-SUB-6-8		1030	C	S	2	N	N	X			
SSHS-B1224-SUB-8-10		1035	C	S	2	N	N	X			
SSHS-B1251-SUB-8-10-12		1045	C	S	2	N	N		X	X	
SSHS-B1254 SUB 55 Wind -10-12		1155	C	S	2	N	N		X	X	
SSHS-B1254-SUB-12-14		1200	C	S	4	N	N		X	X	PS-MS/MSD-95
SSHS-B1252-SUB-10-12		1115	C	S	2	N	N		X	X	
PS-Met-Dup-1		Y	C	S	2	N	N		X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								1	4	1	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geosyntec	7/2/18 1800	[signature]	TAPitt	7-3-18
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 915
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79440-1

Login Number: 79440
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79440-2
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/5/2018 4:51:57 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@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.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Job ID: 180-79440-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79440-2

Receipt
The samples were received on 7/3/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 4.4º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-B1203-SUB-2-4 (180-79440-7), SSHS-B1219-SUB-4-6 (180-79440-14), and SSHS-B1224-SUB-8-10 (180-79440-19). Sample SSHS-B1203-SUB-2-4 (180-79440-7) had the surrogates diluted out. Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-249621 (CCV 180-249621/5) was below criteria for 2 peaks for aroclor 1260 and surrogate decachlorobiphenyl on column RTX-CLP2 . The associated sample results were reported from column RTX-CLP1 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The matrix spike/matrix spike duplicate (MS/MSD) recoveries of sample SSHS-B1078-SUB-2-4 (180-79440-32) were above the control limits for aroclors 1016 and 1260. The RPD between the spikes was also above the control limits for aroclor 1016. The recoveries of the laboratory control sample (LCS) were within the control limits.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
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.
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79440-2
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79440-7	SSHS-B1203-SUB-2-4	Solid	06/30/18 13:30	07/03/18 09:49
180-79440-8	SSHS-B1240-SUB-4-6	Solid	06/30/18 14:00	07/03/18 09:49
180-79440-14	SSHS-B1219-SUB-4-6	Solid	07/01/18 09:15	07/03/18 09:49
180-79440-15	SSHS-B1219-SUB-10-12	Solid	07/01/18 09:20	07/03/18 09:49
180-79440-17	SSHS-B1068-SUB-10-12	Solid	07/01/18 10:00	07/03/18 09:49
180-79440-18	SSHS-B1224-SUB-6-8	Solid	07/01/18 10:30	07/03/18 09:49
180-79440-19	SSHS-B1224-SUB-8-10	Solid	07/01/18 10:35	07/03/18 09:49
180-79440-27	SSHS-B1223-SUB-6-8	Solid	07/02/18 08:30	07/03/18 09:49
180-79440-30	SSHS-B1237-SUB-8-10	Solid	07/02/18 09:35	07/03/18 09:49
180-79440-32	SSHS-B1078-SUB-2-4	Solid	07/02/18 10:30	07/03/18 09:49
180-79440-35	SSHS-B1220-SUB-6-8	Solid	07/02/18 12:00	07/03/18 09:49
180-79440-36	7-2-FD-1	Solid	07/02/18 00:00	07/03/18 09:49
180-79440-37	SSHS-B1207-SUB-2-4	Solid	07/02/18 13:00	07/03/18 09:49
180-79440-39	7-2-FD-2	Solid	07/02/18 00:00	07/03/18 09:49

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Client Sample ID: SSHS-B1203-SUB-2-4
Date Collected: 06/30/18 13:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1203-SUB-2-4
Date Collected: 06/30/18 13:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-7
Matrix: Solid
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		100			249621	07/05/18 11:21	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1240-SUB-4-6
Date Collected: 06/30/18 14:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1240-SUB-4-6
Date Collected: 06/30/18 14:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-8
Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 12:49	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1219-SUB-4-6
Date Collected: 07/01/18 09:15
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Client Sample ID: SSHS-B1219-SUB-4-6

Lab Sample ID: 180-79440-14
Date Collected: 07/01/18 09:15
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		10			249621	07/05/18 11:41	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1219-SUB-10-12

Lab Sample ID: 180-79440-15
Date Collected: 07/01/18 09:20
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1219-SUB-10-12

Lab Sample ID: 180-79440-15
Date Collected: 07/01/18 09:20
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 13:27	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1068-SUB-10-12

Lab Sample ID: 180-79440-17
Date Collected: 07/01/18 10:00
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1068-SUB-10-12

Lab Sample ID: 180-79440-17
Date Collected: 07/01/18 10:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 13:45	DFE	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Client Sample ID: SSHS-B1224-SUB-6-8
Date Collected: 07/01/18 10:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1224-SUB-6-8
Date Collected: 07/01/18 10:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-18
Matrix: Solid
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 14:04	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1224-SUB-8-10
Date Collected: 07/01/18 10:35
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1224-SUB-8-10
Date Collected: 07/01/18 10:35
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-19
Matrix: Solid
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		10			249621	07/05/18 12:01	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1223-SUB-6-8
Date Collected: 07/02/18 08:30
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Client Sample ID: SSHS-B1223-SUB-6-8

Lab Sample ID: 180-79440-27
Date Collected: 07/02/18 08:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 14:42	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1237-SUB-8-10

Lab Sample ID: 180-79440-30
Date Collected: 07/02/18 09:35
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1237-SUB-8-10

Lab Sample ID: 180-79440-30
Date Collected: 07/02/18 09:35
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249583	07/03/18 16:40	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249592	07/04/18 07:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249593	07/04/18 07:22	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249594	07/04/18 16:39	DFE	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1078-SUB-2-4

Lab Sample ID: 180-79440-32
Date Collected: 07/02/18 10:30
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1078-SUB-2-4

Lab Sample ID: 180-79440-32
Date Collected: 07/02/18 10:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 15:00	DFE	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Client Sample ID: SSHS-B1220-SUB-6-8 — **Lab Sample ID: 180-79440-35**
Date Collected: 07/02/18 12:00 — **Matrix: Solid**
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1220-SUB-6-8 — **Lab Sample ID: 180-79440-35**
Date Collected: 07/02/18 12:00 — **Matrix: Solid**
Date Received: 07/03/18 09:49 — **Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 16:16	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: 7-2-FD-1 — **Lab Sample ID: 180-79440-36**
Date Collected: 07/02/18 00:00 — **Matrix: Solid**
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 7-2-FD-1 — **Lab Sample ID: 180-79440-36**
Date Collected: 07/02/18 00:00 — **Matrix: Solid**
Date Received: 07/03/18 09:49 — **Percent Solids: 83.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 16:34	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1207-SUB-2-4 — **Lab Sample ID: 180-79440-37**
Date Collected: 07/02/18 13:00 — **Matrix: Solid**
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-2

Client Sample ID: SSHS-B1207-SUB-2-4

Lab Sample ID: 180-79440-37
Date Collected: 07/02/18 13:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 16:53	DFE	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: 7-2-FD-2

Lab Sample ID: 180-79440-39
Date Collected: 07/02/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 7-2-FD-2

Lab Sample ID: 180-79440-39
Date Collected: 07/02/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249584	07/03/18 16:42	DLL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249595	07/04/18 08:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249596	07/04/18 08:43	DFE	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249597	07/04/18 17:12	DFE	TAL PIT
	Instrument ID: CHGC10									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

Batch Type: Prep

DLL = Debbie Lowe

Batch Type: Analysis

DFE = David Eppinger

TAM = Tessa Mastalski

Client Sample ID: SSHS-B1203-SUB-2-4

Lab Sample ID: 180-79440-7
Date Collected: 06/30/18 13:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 86.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1900	620	ug/Kg	☼	07/03/18 16:42	07/05/18 11:21	100
PCB-1221	ND		1900	1200	ug/Kg	☼	07/03/18 16:42	07/05/18 11:21	100
PCB-1232	ND		1900	1100	ug/Kg	☼	07/03/18 16:42	07/05/18 11:21	100
PCB-1242	ND		1900	1100	ug/Kg	☼	07/03/18 16:42	07/05/18 11:21	100
PCB-1248	**240000**		1900	1500	ug/Kg	☼	07/03/18 16:42	07/05/18 11:21	100
PCB-1254	**120000**		1900	1300	ug/Kg	☼	07/03/18 16:42	07/05/18 11:21	100
PCB-1260	**13000**		1900	540	ug/Kg	☼	07/03/18 16:42	07/05/18 11:21	100
PCB-1262	ND		1900	1300	ug/Kg	☼	07/03/18 16:42	07/05/18 11:21	100
PCB-1268	ND		1900	930	ug/Kg	☼	07/03/18 16:42	07/05/18 11:21	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/03/18 16:42*	*07/05/18 11:21*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/03/18 16:42*	*07/05/18 11:21*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/03/18 16:42*	*07/05/18 11:21*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/03/18 16:42*	*07/05/18 11:21*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.8**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**86.2**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1240-SUB-4-6

Lab Sample ID: 180-79440-8
Date Collected: 06/30/18 14:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 85.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	07/03/18 16:42	07/04/18 12:49	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:42	07/04/18 12:49	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:42	07/04/18 12:49	1
PCB-1242	ND		19	12	ug/Kg	☼	07/03/18 16:42	07/04/18 12:49	1
PCB-1248	ND		19	15	ug/Kg	☼	07/03/18 16:42	07/04/18 12:49	1
PCB-1254	ND		19	13	ug/Kg	☼	07/03/18 16:42	07/04/18 12:49	1
PCB-1260	ND		19	5.5	ug/Kg	☼	07/03/18 16:42	07/04/18 12:49	1
PCB-1262	ND		19	14	ug/Kg	☼	07/03/18 16:42	07/04/18 12:49	1
PCB-1268	ND		19	9.3	ug/Kg	☼	07/03/18 16:42	07/04/18 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*07/03/18 16:42*	*07/04/18 12:49*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*33 - 137*	*07/03/18 16:42*	*07/04/18 12:49*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*07/03/18 16:42*	*07/04/18 12:49*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*07/03/18 16:42*	*07/04/18 12:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.5**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**85.5**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1219-SUB-4-6

Lab Sample ID: 180-79440-14

Date Collected: 07/01/18 09:15
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 87.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	62	ug/Kg	☼	07/03/18 16:42	07/05/18 11:41	10
PCB-1221	ND		190	120	ug/Kg	☼	07/03/18 16:42	07/05/18 11:41	10
PCB-1232	ND		190	110	ug/Kg	☼	07/03/18 16:42	07/05/18 11:41	10
PCB-1242	ND		190	110	ug/Kg	☼	07/03/18 16:42	07/05/18 11:41	10
PCB-1248	**9500**		190	150	ug/Kg	☼	07/03/18 16:42	07/05/18 11:41	10
PCB-1254	**6500**		190	130	ug/Kg	☼	07/03/18 16:42	07/05/18 11:41	10
PCB-1260	**740**		190	54	ug/Kg	☼	07/03/18 16:42	07/05/18 11:41	10
PCB-1262	ND		190	130	ug/Kg	☼	07/03/18 16:42	07/05/18 11:41	10
PCB-1268	ND		190	93	ug/Kg	☼	07/03/18 16:42	07/05/18 11:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*07/03/18 16:42*	*07/05/18 11:41*	*10*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/03/18 16:42*	*07/05/18 11:41*	*10*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*07/03/18 16:42*	*07/05/18 11:41*	*10*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*07/03/18 16:42*	*07/05/18 11:41*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**87.3**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1219-SUB-10-12

Lab Sample ID: 180-79440-15

Date Collected: 07/01/18 09:20
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	07/03/18 16:42	07/04/18 13:27	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:42	07/04/18 13:27	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:42	07/04/18 13:27	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:42	07/04/18 13:27	1
PCB-1248	ND		19	15	ug/Kg	☼	07/03/18 16:42	07/04/18 13:27	1
PCB-1254	ND		19	13	ug/Kg	☼	07/03/18 16:42	07/04/18 13:27	1
PCB-1260	ND		19	5.4	ug/Kg	☼	07/03/18 16:42	07/04/18 13:27	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:42	07/04/18 13:27	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/03/18 16:42	07/04/18 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*07/03/18 16:42*	*07/04/18 13:27*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/03/18 16:42*	*07/04/18 13:27*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*07/03/18 16:42*	*07/04/18 13:27*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*	*07/03/18 16:42*	*07/04/18 13:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.4**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**84.6**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1068-SUB-10-12

Lab Sample ID: 180-79440-17

Date Collected: 07/01/18 10:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 81.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	07/03/18 16:42	07/04/18 13:45	1
PCB-1221	ND		20	13	ug/Kg	☼	07/03/18 16:42	07/04/18 13:45	1
PCB-1232	ND		20	12	ug/Kg	☼	07/03/18 16:42	07/04/18 13:45	1
PCB-1242	ND		20	12	ug/Kg	☼	07/03/18 16:42	07/04/18 13:45	1
PCB-1248	**2000**		20	16	ug/Kg	☼	07/03/18 16:42	07/04/18 13:45	1
PCB-1254	**560**		20	14	ug/Kg	☼	07/03/18 16:42	07/04/18 13:45	1
PCB-1260	**93**	**p**	20	5.8	ug/Kg	☼	07/03/18 16:42	07/04/18 13:45	1
PCB-1262	ND		20	14	ug/Kg	☼	07/03/18 16:42	07/04/18 13:45	1
PCB-1268	ND		20	9.9	ug/Kg	☼	07/03/18 16:42	07/04/18 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*07/03/18 16:42*	*07/04/18 13:45*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*07/03/18 16:42*	*07/04/18 13:45*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/03/18 16:42*	*07/04/18 13:45*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/03/18 16:42*	*07/04/18 13:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.9**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**81.1**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1224-SUB-6-8

Lab Sample ID: 180-79440-18

Date Collected: 07/01/18 10:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 78.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	07/03/18 16:42	07/04/18 14:04	1
PCB-1221	ND		21	14	ug/Kg	☼	07/03/18 16:42	07/04/18 14:04	1
PCB-1232	ND		21	13	ug/Kg	☼	07/03/18 16:42	07/04/18 14:04	1
PCB-1242	ND		21	13	ug/Kg	☼	07/03/18 16:42	07/04/18 14:04	1
PCB-1248	**71**		21	17	ug/Kg	☼	07/03/18 16:42	07/04/18 14:04	1
PCB-1254	**22**		21	15	ug/Kg	☼	07/03/18 16:42	07/04/18 14:04	1
PCB-1260	ND		21	6.1	ug/Kg	☼	07/03/18 16:42	07/04/18 14:04	1
PCB-1262	ND		21	15	ug/Kg	☼	07/03/18 16:42	07/04/18 14:04	1
PCB-1268	ND		21	10	ug/Kg	☼	07/03/18 16:42	07/04/18 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/03/18 16:42*	*07/04/18 14:04*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*07/03/18 16:42*	*07/04/18 14:04*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*07/03/18 16:42*	*07/04/18 14:04*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*	*07/03/18 16:42*	*07/04/18 14:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.8**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**78.2**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1224-SUB-8-10

Lab Sample ID: 180-79440-19

Date Collected: 07/01/18 10:35
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 94.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		170	57	ug/Kg	☼	07/03/18 16:42	07/05/18 12:01	10
PCB-1221	ND		170	110	ug/Kg	☼	07/03/18 16:42	07/05/18 12:01	10
PCB-1232	ND		170	100	ug/Kg	☼	07/03/18 16:42	07/05/18 12:01	10
PCB-1242	ND		170	100	ug/Kg	☼	07/03/18 16:42	07/05/18 12:01	10
PCB-1248	**8900**		170	140	ug/Kg	☼	07/03/18 16:42	07/05/18 12:01	10
PCB-1254	**5100**		170	120	ug/Kg	☼	07/03/18 16:42	07/05/18 12:01	10
PCB-1260	**440**		170	50	ug/Kg	☼	07/03/18 16:42	07/05/18 12:01	10
PCB-1262	ND		170	120	ug/Kg	☼	07/03/18 16:42	07/05/18 12:01	10
PCB-1268	ND		170	85	ug/Kg	☼	07/03/18 16:42	07/05/18 12:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/03/18 16:42*	*07/05/18 12:01*	*10*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*07/03/18 16:42*	*07/05/18 12:01*	*10*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/03/18 16:42*	*07/05/18 12:01*	*10*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/03/18 16:42*	*07/05/18 12:01*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.7**		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	**94.3**		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1223-SUB-6-8

Lab Sample ID: 180-79440-27

Date Collected: 07/02/18 08:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 82.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	07/03/18 16:42	07/04/18 14:42	1
PCB-1221	ND		20	13	ug/Kg	☼	07/03/18 16:42	07/04/18 14:42	1
PCB-1232	ND		20	12	ug/Kg	☼	07/03/18 16:42	07/04/18 14:42	1
PCB-1242	ND		20	12	ug/Kg	☼	07/03/18 16:42	07/04/18 14:42	1
PCB-1248	**680**		20	16	ug/Kg	☼	07/03/18 16:42	07/04/18 14:42	1
PCB-1254	**230**		20	14	ug/Kg	☼	07/03/18 16:42	07/04/18 14:42	1
PCB-1260	**51**		20	5.7	ug/Kg	☼	07/03/18 16:42	07/04/18 14:42	1
PCB-1262	ND		20	14	ug/Kg	☼	07/03/18 16:42	07/04/18 14:42	1
PCB-1268	ND		20	9.8	ug/Kg	☼	07/03/18 16:42	07/04/18 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*33 - 137*	*07/03/18 16:42*	*07/04/18 14:42*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/03/18 16:42*	*07/04/18 14:42*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/03/18 16:42*	*07/04/18 14:42*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/03/18 16:42*	*07/04/18 14:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.3**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**82.7**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1237-SUB-8-10

Lab Sample ID: 180-79440-30

Date Collected: 07/02/18 09:35
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 86.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	07/03/18 16:40	07/04/18 16:39	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:40	07/04/18 16:39	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 16:39	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:40	07/04/18 16:39	1
PCB-1248	**2200**		19	15	ug/Kg	☼	07/03/18 16:40	07/04/18 16:39	1
PCB-1254	**1100**		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 16:39	1
PCB-1260	**220**		19	5.4	ug/Kg	☼	07/03/18 16:40	07/04/18 16:39	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:40	07/04/18 16:39	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/03/18 16:40	07/04/18 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*33 - 137*	*07/03/18 16:40*	*07/04/18 16:39*	*1*
DCB Decachlorobiphenyl (Surr)	*54*		*33 - 137*	*07/03/18 16:40*	*07/04/18 16:39*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*44 - 114*	*07/03/18 16:40*	*07/04/18 16:39*	*1*
Tetrachloro-m-xylene (Surr)	*56*		*44 - 114*	*07/03/18 16:40*	*07/04/18 16:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**86.9**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1078-SUB-2-4

Lab Sample ID: 180-79440-32

Date Collected: 07/02/18 10:30
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 81.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1 F2	21	6.7	ug/Kg	☼	07/03/18 16:42	07/04/18 15:00	1
PCB-1221	ND		21	13	ug/Kg	☼	07/03/18 16:42	07/04/18 15:00	1
PCB-1232	ND		21	12	ug/Kg	☼	07/03/18 16:42	07/04/18 15:00	1
PCB-1242	ND		21	12	ug/Kg	☼	07/03/18 16:42	07/04/18 15:00	1
PCB-1248	**5600**		21	16	ug/Kg	☼	07/03/18 16:42	07/04/18 15:00	1
PCB-1254	**2300**		21	14	ug/Kg	☼	07/03/18 16:42	07/04/18 15:00	1
PCB-1260	**430**	**F1**	21	5.8	ug/Kg	☼	07/03/18 16:42	07/04/18 15:00	1
PCB-1262	ND		21	14	ug/Kg	☼	07/03/18 16:42	07/04/18 15:00	1
PCB-1268	ND		21	10	ug/Kg	☼	07/03/18 16:42	07/04/18 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*33 - 137*	*07/03/18 16:42*	*07/04/18 15:00*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/03/18 16:42*	*07/04/18 15:00*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/03/18 16:42*	*07/04/18 15:00*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*07/03/18 16:42*	*07/04/18 15:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.9**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**81.1**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1220-SUB-6-8

Lab Sample ID: 180-79440-35

Date Collected: 07/02/18 12:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 87.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	07/03/18 16:42	07/04/18 16:16	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:42	07/04/18 16:16	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:42	07/04/18 16:16	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:42	07/04/18 16:16	1
PCB-1248	ND		19	15	ug/Kg	☼	07/03/18 16:42	07/04/18 16:16	1
PCB-1254	**610**		19	13	ug/Kg	☼	07/03/18 16:42	07/04/18 16:16	1
PCB-1260	ND		19	5.3	ug/Kg	☼	07/03/18 16:42	07/04/18 16:16	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:42	07/04/18 16:16	1
PCB-1268	ND		19	9.0	ug/Kg	☼	07/03/18 16:42	07/04/18 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/03/18 16:42*	*07/04/18 16:16*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*07/03/18 16:42*	*07/04/18 16:16*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*07/03/18 16:42*	*07/04/18 16:16*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/03/18 16:42*	*07/04/18 16:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**87.9**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: 7-2-FD-1

Lab Sample ID: 180-79440-36

Date Collected: 07/02/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.3	ug/Kg	☼	07/03/18 16:42	07/04/18 16:34	1
PCB-1221	ND		20	13	ug/Kg	☼	07/03/18 16:42	07/04/18 16:34	1
PCB-1232	ND		20	12	ug/Kg	☼	07/03/18 16:42	07/04/18 16:34	1
PCB-1242	ND		20	12	ug/Kg	☼	07/03/18 16:42	07/04/18 16:34	1
PCB-1248	**1000**		20	15	ug/Kg	☼	07/03/18 16:42	07/04/18 16:34	1
PCB-1254	**340**		20	13	ug/Kg	☼	07/03/18 16:42	07/04/18 16:34	1
PCB-1260	**72**		20	5.6	ug/Kg	☼	07/03/18 16:42	07/04/18 16:34	1
PCB-1262	ND		20	14	ug/Kg	☼	07/03/18 16:42	07/04/18 16:34	1
PCB-1268	ND		20	9.5	ug/Kg	☼	07/03/18 16:42	07/04/18 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/03/18 16:42*	*07/04/18 16:34*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*07/03/18 16:42*	*07/04/18 16:34*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*07/03/18 16:42*	*07/04/18 16:34*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*07/03/18 16:42*	*07/04/18 16:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.3**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**83.7**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1207-SUB-2-4

Lab Sample ID: 180-79440-37

Date Collected: 07/02/18 13:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 86.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	07/03/18 16:42	07/04/18 16:53	1
PCB-1221	ND		19	12	ug/Kg	☼	07/03/18 16:42	07/04/18 16:53	1
PCB-1232	ND		19	11	ug/Kg	☼	07/03/18 16:42	07/04/18 16:53	1
PCB-1242	ND		19	11	ug/Kg	☼	07/03/18 16:42	07/04/18 16:53	1
PCB-1248	ND		19	15	ug/Kg	☼	07/03/18 16:42	07/04/18 16:53	1
PCB-1254	ND		19	13	ug/Kg	☼	07/03/18 16:42	07/04/18 16:53	1
PCB-1260	ND		19	5.4	ug/Kg	☼	07/03/18 16:42	07/04/18 16:53	1
PCB-1262	ND		19	13	ug/Kg	☼	07/03/18 16:42	07/04/18 16:53	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/03/18 16:42	07/04/18 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*33 - 137*	*07/03/18 16:42*	*07/04/18 16:53*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*33 - 137*	*07/03/18 16:42*	*07/04/18 16:53*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/03/18 16:42*	*07/04/18 16:53*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/03/18 16:42*	*07/04/18 16:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.2**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**86.8**		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: 7-2-FD-2

Lab Sample ID: 180-79440-39

Date Collected: 07/02/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	07/03/18 16:42	07/04/18 17:12	1
PCB-1221	ND		20	13	ug/Kg	☼	07/03/18 16:42	07/04/18 17:12	1
PCB-1232	ND		20	12	ug/Kg	☼	07/03/18 16:42	07/04/18 17:12	1
PCB-1242	ND		20	12	ug/Kg	☼	07/03/18 16:42	07/04/18 17:12	1
PCB-1248	**250**		20	15	ug/Kg	☼	07/03/18 16:42	07/04/18 17:12	1
PCB-1254	**170**		20	13	ug/Kg	☼	07/03/18 16:42	07/04/18 17:12	1
PCB-1260	**42**	**p**	20	5.6	ug/Kg	☼	07/03/18 16:42	07/04/18 17:12	1
PCB-1262	ND		20	14	ug/Kg	☼	07/03/18 16:42	07/04/18 17:12	1
PCB-1268	ND		20	9.5	ug/Kg	☼	07/03/18 16:42	07/04/18 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/03/18 16:42*	*07/04/18 17:12*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*07/03/18 16:42*	*07/04/18 17:12*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*07/03/18 16:42*	*07/04/18 17:12*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*07/03/18 16:42*	*07/04/18 17:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.9**		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	**84.1**		0.1	0.1	%			07/03/18 12:38	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-249583/1-C
Matrix: Solid
Analysis Batch: 249594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1221	ND		17	11	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1232	ND		17	9.9	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1242	ND		17	10	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1248	ND		17	13	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1254	ND		17	11	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1260	ND		17	4.7	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1262	ND		17	12	ug/Kg		07/03/18 16:40	07/04/18 09:46	1
PCB-1268	ND		17	8.1	ug/Kg		07/03/18 16:40	07/04/18 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/03/18 16:40*	*07/04/18 09:46*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*	*07/03/18 16:40*	*07/04/18 09:46*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*07/03/18 16:40*	*07/04/18 09:46*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/03/18 16:40*	*07/04/18 09:46*	*1*

Lab Sample ID: LCS 180-249583/2-C
Matrix: Solid
Analysis Batch: 249594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249583

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1110		ug/Kg		83	46 - 122		
PCB-1260			1330	951		ug/Kg		71	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*

Lab Sample ID: MB 180-249584/1-C
Matrix: Solid
Analysis Batch: 249597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1221	ND		17	11	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1232	ND		17	9.9	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1242	ND		17	10	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1248	ND		17	13	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1254	ND		17	11	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1260	ND		17	4.7	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1262	ND		17	12	ug/Kg		07/03/18 16:42	07/04/18 11:53	1
PCB-1268	ND		17	8.1	ug/Kg		07/03/18 16:42	07/04/18 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*07/03/18 16:42*	*07/04/18 11:53*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-249584/1-C
Matrix: Solid
Analysis Batch: 249597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249584

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	80		33 - 137	07/03/18 16:42	07/04/18 11:53	1
Tetrachloro-m-xylene (Surr)	98		44 - 114	07/03/18 16:42	07/04/18 11:53	1
Tetrachloro-m-xylene (Surr)	112		44 - 114	07/03/18 16:42	07/04/18 11:53	1

Lab Sample ID: LCS 180-249584/2-C
Matrix: Solid
Analysis Batch: 249597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249584

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1320		ug/Kg		99	46 - 122		
PCB-1260			1330	1160		ug/Kg		87	51 - 119		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	86		33 - 137
DCB Decachlorobiphenyl (Surr)	81		33 - 137
Tetrachloro-m-xylene (Surr)	103		44 - 114
Tetrachloro-m-xylene (Surr)	107		44 - 114

Lab Sample ID: 180-79440-32 MS
Matrix: Solid
Analysis Batch: 249597

Client Sample ID: SSHS-B1078-SUB-2-4
Prep Type: Total/NA
Prep Batch: 249584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND	F1 F2	1630	11700	E p F1	ug/Kg	☼	718	46 - 122		
PCB-1260	430	F1	1630	2820	F1	ug/Kg	☼	146	51 - 119		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	70		33 - 137
DCB Decachlorobiphenyl (Surr)	69		33 - 137
Tetrachloro-m-xylene (Surr)	86		44 - 114
Tetrachloro-m-xylene (Surr)	86		44 - 114

Lab Sample ID: 180-79440-32 MSD
Matrix: Solid
Analysis Batch: 249597

Client Sample ID: SSHS-B1078-SUB-2-4
Prep Type: Total/NA
Prep Batch: 249584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1 F2	1640	7100	E p F1 F2	ug/Kg	☼	431	46 - 122	49	23
PCB-1260	430	F1	1640	2680	F1	ug/Kg	☼	136	51 - 119	5	17

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	68		33 - 137
DCB Decachlorobiphenyl (Surr)	75		33 - 137
Tetrachloro-m-xylene (Surr)	82		44 - 114
Tetrachloro-m-xylene (Surr)	84		44 - 114

GC Semi VOA

Prep Batch: 249583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-30	SSHS-B1237-SUB-8-10	Total/NA	Solid	3541	
MB 180-249583/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-249583/2-C	Lab Control Sample	Total/NA	Solid	3541	

Prep Batch: 249584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-7	SSHS-B1203-SUB-2-4	Total/NA	Solid	3541	
180-79440-8	SSHS-B1240-SUB-4-6	Total/NA	Solid	3541	
180-79440-14	SSHS-B1219-SUB-4-6	Total/NA	Solid	3541	
180-79440-15	SSHS-B1219-SUB-10-12	Total/NA	Solid	3541	
180-79440-17	SSHS-B1068-SUB-10-12	Total/NA	Solid	3541	
180-79440-18	SSHS-B1224-SUB-6-8	Total/NA	Solid	3541	
180-79440-19	SSHS-B1224-SUB-8-10	Total/NA	Solid	3541	
180-79440-27	SSHS-B1223-SUB-6-8	Total/NA	Solid	3541	
180-79440-32	SSHS-B1078-SUB-2-4	Total/NA	Solid	3541	
180-79440-35	SSHS-B1220-SUB-6-8	Total/NA	Solid	3541	
180-79440-36	7-2-FD-1	Total/NA	Solid	3541	
180-79440-37	SSHS-B1207-SUB-2-4	Total/NA	Solid	3541	
180-79440-39	7-2-FD-2	Total/NA	Solid	3541	
MB 180-249584/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-249584/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-79440-32 MS	SSHS-B1078-SUB-2-4	Total/NA	Solid	3541	
180-79440-32 MSD	SSHS-B1078-SUB-2-4	Total/NA	Solid	3541	

Cleanup Batch: 249592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-30	SSHS-B1237-SUB-8-10	Total/NA	Solid	3665A	249583
MB 180-249583/1-C	Method Blank	Total/NA	Solid	3665A	249583
LCS 180-249583/2-C	Lab Control Sample	Total/NA	Solid	3665A	249583

Cleanup Batch: 249593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-30	SSHS-B1237-SUB-8-10	Total/NA	Solid	3660B	249592
MB 180-249583/1-C	Method Blank	Total/NA	Solid	3660B	249592
LCS 180-249583/2-C	Lab Control Sample	Total/NA	Solid	3660B	249592

Analysis Batch: 249594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-30	SSHS-B1237-SUB-8-10	Total/NA	Solid	EPA 8082A	249593
MB 180-249583/1-C	Method Blank	Total/NA	Solid	EPA 8082A	249593
LCS 180-249583/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	249593

Cleanup Batch: 249595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-7	SSHS-B1203-SUB-2-4	Total/NA	Solid	3665A	249584
180-79440-8	SSHS-B1240-SUB-4-6	Total/NA	Solid	3665A	249584
180-79440-14	SSHS-B1219-SUB-4-6	Total/NA	Solid	3665A	249584
180-79440-15	SSHS-B1219-SUB-10-12	Total/NA	Solid	3665A	249584
180-79440-17	SSHS-B1068-SUB-10-12	Total/NA	Solid	3665A	249584
180-79440-18	SSHS-B1224-SUB-6-8	Total/NA	Solid	3665A	249584
180-79440-19	SSHS-B1224-SUB-8-10	Total/NA	Solid	3665A	249584

GC Semi VOA (Continued)

Cleanup Batch: 249595 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-27	SSHS-B1223-SUB-6-8	Total/NA	Solid	3665A	249584
180-79440-32	SSHS-B1078-SUB-2-4	Total/NA	Solid	3665A	249584
180-79440-35	SSHS-B1220-SUB-6-8	Total/NA	Solid	3665A	249584
180-79440-36	7-2-FD-1	Total/NA	Solid	3665A	249584
180-79440-37	SSHS-B1207-SUB-2-4	Total/NA	Solid	3665A	249584
180-79440-39	7-2-FD-2	Total/NA	Solid	3665A	249584
MB 180-249584/1-C	Method Blank	Total/NA	Solid	3665A	249584
LCS 180-249584/2-C	Lab Control Sample	Total/NA	Solid	3665A	249584
180-79440-32 MS	SSHS-B1078-SUB-2-4	Total/NA	Solid	3665A	249584
180-79440-32 MSD	SSHS-B1078-SUB-2-4	Total/NA	Solid	3665A	249584

Cleanup Batch: 249596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-7	SSHS-B1203-SUB-2-4	Total/NA	Solid	3660B	249595
180-79440-8	SSHS-B1240-SUB-4-6	Total/NA	Solid	3660B	249595
180-79440-14	SSHS-B1219-SUB-4-6	Total/NA	Solid	3660B	249595
180-79440-15	SSHS-B1219-SUB-10-12	Total/NA	Solid	3660B	249595
180-79440-17	SSHS-B1068-SUB-10-12	Total/NA	Solid	3660B	249595
180-79440-18	SSHS-B1224-SUB-6-8	Total/NA	Solid	3660B	249595
180-79440-19	SSHS-B1224-SUB-8-10	Total/NA	Solid	3660B	249595
180-79440-27	SSHS-B1223-SUB-6-8	Total/NA	Solid	3660B	249595
180-79440-32	SSHS-B1078-SUB-2-4	Total/NA	Solid	3660B	249595
180-79440-35	SSHS-B1220-SUB-6-8	Total/NA	Solid	3660B	249595
180-79440-36	7-2-FD-1	Total/NA	Solid	3660B	249595
180-79440-37	SSHS-B1207-SUB-2-4	Total/NA	Solid	3660B	249595
180-79440-39	7-2-FD-2	Total/NA	Solid	3660B	249595
MB 180-249584/1-C	Method Blank	Total/NA	Solid	3660B	249595
LCS 180-249584/2-C	Lab Control Sample	Total/NA	Solid	3660B	249595
180-79440-32 MS	SSHS-B1078-SUB-2-4	Total/NA	Solid	3660B	249595
180-79440-32 MSD	SSHS-B1078-SUB-2-4	Total/NA	Solid	3660B	249595

Analysis Batch: 249597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-8	SSHS-B1240-SUB-4-6	Total/NA	Solid	EPA 8082A	249596
180-79440-15	SSHS-B1219-SUB-10-12	Total/NA	Solid	EPA 8082A	249596
180-79440-17	SSHS-B1068-SUB-10-12	Total/NA	Solid	EPA 8082A	249596
180-79440-18	SSHS-B1224-SUB-6-8	Total/NA	Solid	EPA 8082A	249596
180-79440-27	SSHS-B1223-SUB-6-8	Total/NA	Solid	EPA 8082A	249596
180-79440-32	SSHS-B1078-SUB-2-4	Total/NA	Solid	EPA 8082A	249596
180-79440-35	SSHS-B1220-SUB-6-8	Total/NA	Solid	EPA 8082A	249596
180-79440-36	7-2-FD-1	Total/NA	Solid	EPA 8082A	249596
180-79440-37	SSHS-B1207-SUB-2-4	Total/NA	Solid	EPA 8082A	249596
180-79440-39	7-2-FD-2	Total/NA	Solid	EPA 8082A	249596
MB 180-249584/1-C	Method Blank	Total/NA	Solid	EPA 8082A	249596
LCS 180-249584/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	249596
180-79440-32 MS	SSHS-B1078-SUB-2-4	Total/NA	Solid	EPA 8082A	249596
180-79440-32 MSD	SSHS-B1078-SUB-2-4	Total/NA	Solid	EPA 8082A	249596

Analysis Batch: 249621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-7	SSHS-B1203-SUB-2-4	Total/NA	Solid	EPA 8082A	249596

GC Semi VOA (Continued)

Analysis Batch: 249621 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-14	SSHS-B1219-SUB-4-6	Total/NA	Solid	EPA 8082A	249596
180-79440-19	SSHS-B1224-SUB-8-10	Total/NA	Solid	EPA 8082A	249596

General Chemistry

Analysis Batch: 249477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-7	SSHS-B1203-SUB-2-4	Total/NA	Solid	2540G	
180-79440-8	SSHS-B1240-SUB-4-6	Total/NA	Solid	2540G	
180-79440-14	SSHS-B1219-SUB-4-6	Total/NA	Solid	2540G	
180-79440-15	SSHS-B1219-SUB-10-12	Total/NA	Solid	2540G	
180-79440-17	SSHS-B1068-SUB-10-12	Total/NA	Solid	2540G	
180-79440-18	SSHS-B1224-SUB-6-8	Total/NA	Solid	2540G	
180-79440-19	SSHS-B1224-SUB-8-10	Total/NA	Solid	2540G	

Analysis Batch: 249499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-27	SSHS-B1223-SUB-6-8	Total/NA	Solid	2540G	
180-79440-30	SSHS-B1237-SUB-8-10	Total/NA	Solid	2540G	
180-79440-32	SSHS-B1078-SUB-2-4	Total/NA	Solid	2540G	
180-79440-35	SSHS-B1220-SUB-6-8	Total/NA	Solid	2540G	
180-79440-36	7-2-FD-1	Total/NA	Solid	2540G	
180-79440-37	SSHS-B1207-SUB-2-4	Total/NA	Solid	2540G	
180-79440-39	7-2-FD-2	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/2/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: 7/2/18
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SSHS-B1236-SUB-4-6	7/2/18	0800	C	S	2	N	N	X	
SSHS-B1236-SUB-6-8		0805	C	S	2	N	N	X	
SSHS-B1223-SUB-6-8		0830	C	S	2	N	N	X	
SSHS-B1235-SUB-4-6		0845	C	S	2	N	N	X	
SSHS-B1237-SUB-4-6		0930	C	S	2	N	N	X	
SSHS-B1237-SUB-8-10		0935	C	S	2	N	N	X	
SSHS-B1075-SUB-2-4		1000	C	S	2	N	N	X	
SSHS-B1078-SUB-2-4		1030	C	S	4	N	Y	Y	2 MS/MSD
SSHS-B1206-SUB-2-4		1130	C	S	2	N	N	X	
SSHS-B1206-SUB-~~6-8~~ 4-6		1135	C	S	2	N	N	X	
SSHS-B1220-SUB ST 8/2/18 ~~6-8~~		1200	C	S	2	N	N	X	
2 FD		X	C	S	2	N	N	X	

180-79440 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geosyntec	7/2/18 1800	[signature]	TAPH	7-3-18
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9/5
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/2/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JJ
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Sample Specific Notes:
SSHS-B1207-SUB-2-4	7/2/18	1300	C	S	2	N	N	X	
SSHS-B1233-SUB-4-6	↓	1330	C	S	3	N	N	X	
7_2_FR2	↓	X	C	S	2	N	N	X	

JT 7/2/18

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geosyntec	7/2/18 1800	Debbie Watson	TAPitt	7-3-18
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9:15
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Chain of Custody Record

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact		
Geosyntec Consultants	**Project Manager:** Aron Krasnopoler	**Site Contact:** Jay Thompson
10211 Wincopin Circle, 4th Floor	**Tel/Fax:** 401-381-4333	**Lab Contact:** Dave Dunlap
Columbia, MD 21044	**Analysis Turnaround Time**	**Date:** 7/1/18
410-381-4333 Phone	☐ CALENDAR DAYS ☑ WORKING DAYS	**Carrier:** FedEx
410-381-4499 FAX	TAT if different from Below ____	
Project Name: Former Sperry Remington Site - North	☐ 2 weeks	
Site: Elmira	☐ 1 week ☐ 2 days	
P O # MN0832B	☒ 1 day	

COC No: ___ 1 of 1 COCs
Sampler: JT
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	TAL metals-6010	Hg-7471B	Sample Specific Notes:
SSHS-B1204-SUB-2-4	7/1/18	0845	C	S	2	N	N	X			
SSHS-B1219-SUB-4-6		0915	C	S	2	N	N	X			
SSHS-B1219-SUB-10-12		0920	C	S	2	N	N	X			
SSHS-B1068-SUB-4-6		0950	C	S	2	N	N	X			
SSHS-B1068-SUB-10-12		1000	C	S	2	N	N	X			
SSHS-B1224-SUB-6-8		1030	C	S	2	N	N	X			
SSHS-B1224-SUB-8-10		1035	C	S	2	N	N	X			
SSHS-B1251-SUB-8-10-12		1045	C	S	2	N	N		X	X	
SSHS-B1254 SUB 5-7 ~~10-12~~		~~1015~~ 1155	C	S	2	N	N		X	X	
SSHS-B1254-SUB-12-14		1200	C	S	4	N	N		X	X	PS-MS/MSD-95
SSHS-B1252-SUB-10-12		1115	C	S	2	N	N		X	X	
PS-Met-Dup-1	↓	↓	C	S	2	N	N		X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____ 1 | 4 | 1

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by: [signature]	Company: Geosyntec	Date/Time: 7/2/18 1800	Received by: [signature]	Company: TA Pitt	Date/Time: 7-3-18 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79440-2

Login Number: 79440
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79440-3
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/5/2018 5:36:26 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-3

Job ID: 180-79440-3

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79440-3

Receipt
The samples were received on 7/3/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 4.4º C.

Metals
Method(s) 6010C: The matrix spike duplicate (MSD) of sample SSHS-B1254-SUB-12-14 (180-79440-22) recovered below the control limits for calcium and copper. The RPD between the spikes was above the control limits for calcium. The recoveries of the laboratory control sample were within the control limits.

Method(s) 6010C: The serial dilution percent difference of sample SSHS-B1254-SUB-12-14 (180-79440-22) was above the control limits for iron.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-3

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79440-3
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79440-20	SSHS-B1251-SUB-10-12	Solid	07/01/18 10:45	07/03/18 09:49
180-79440-21	SSHS-B1254-SUB-10-12	Solid	07/01/18 11:55	07/03/18 09:49
180-79440-22	SSHS-B1254-SUB-12-14	Solid	07/01/18 12:00	07/03/18 09:49
180-79440-23	SSHS-B1252-SUB-10-12	Solid	07/01/18 11:15	07/03/18 09:49
180-79440-24	PS-MET-DUP-1	Solid	07/01/18 00:00	07/03/18 09:49

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-3

Method	Method Description	Protocol	Laboratory
EPA 6010C	Metals (ICP)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3050B	Preparation, Metals	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-3

Client Sample ID: SSHS-B1251-SUB-10-12
Date Collected: 07/01/18 10:45
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249477	07/03/18 12:05	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1251-SUB-10-12
Date Collected: 07/01/18 10:45
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-20
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.96 g	100 mL	249493	07/03/18 12:28	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			249711	07/05/18 16:19	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	249613	07/05/18 06:32	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			249669	07/05/18 12:45	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: SSHS-B1254-SUB-10-12
Date Collected: 07/01/18 11:55
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1254-SUB-10-12
Date Collected: 07/01/18 11:55
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-21
Matrix: Solid
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.98 g	100 mL	249493	07/03/18 12:28	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			249711	07/05/18 16:24	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	249613	07/05/18 06:32	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			249669	07/05/18 12:46	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: SSHS-B1254-SUB-12-14
Date Collected: 07/01/18 12:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-3

Client Sample ID: SSHS-B1254-SUB-12-14
Lab Sample ID: 180-79440-22
Date Collected: 07/01/18 12:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.96 g	100 mL	249493	07/03/18 12:28	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			249711	07/05/18 15:54	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	249613	07/05/18 06:32	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			249669	07/05/18 12:47	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: SSHS-B1252-SUB-10-12
Lab Sample ID: 180-79440-23
Date Collected: 07/01/18 11:15
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1252-SUB-10-12
Lab Sample ID: 180-79440-23
Date Collected: 07/01/18 11:15
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.04 g	100 mL	249493	07/03/18 12:28	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			249711	07/05/18 16:30	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	249613	07/05/18 06:32	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			249669	07/05/18 12:50	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: PS-MET-DUP-1
Lab Sample ID: 180-79440-24
Date Collected: 07/01/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249499	07/03/18 12:38	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-MET-DUP-1
Lab Sample ID: 180-79440-24
Date Collected: 07/01/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.04 g	100 mL	249493	07/03/18 12:28	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			249711	07/05/18 16:45	RJR	TAL PIT
	Instrument ID: C									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-3

Client Sample ID: PS-MET-DUP-1

Date Collected: 07/01/18 00:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-24

Matrix: Solid
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.61 g	100 mL	249613	07/05/18 06:32	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			249669	07/05/18 12:51	RJR	TAL PIT
	Instrument ID: HGZ									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

RJR = Ron Rosenbaum

TAM = Tessa Mastalski

Client Sample ID: SSHS-B1251-SUB-10-12

Lab Sample ID: 180-79440-20
Date Collected: 07/01/18 10:45
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.0

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6900		25	3.6	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Antimony	ND		1.3	0.43	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Arsenic	30		1.3	0.35	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Barium	110		25	1.3	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Beryllium	0.22	J	0.50	0.029	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Cadmium	0.23	J	0.63	0.046	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Calcium	960		630	33	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Chromium	18		0.63	0.15	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Cobalt	3.3	J	6.3	0.37	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Copper	68		3.1	0.21	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Iron	51000		13	6.3	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Lead	15		1.3	0.31	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Magnesium	1700		630	41	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Manganese	120		1.9	0.20	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Nickel	12		5.0	0.31	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Potassium	1800		630	44	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Selenium	1.3		1.3	0.65	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Silver	ND		0.63	0.13	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Sodium	1100		630	33	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Thallium	ND		2.5	0.26	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Vanadium	16		6.3	0.87	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1
Zinc	51		2.5	1.4	mg/Kg	☼	07/03/18 12:28	07/05/18 16:19	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	J B	0.038	0.0085	mg/Kg	☼	07/05/18 06:32	07/05/18 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.0		0.1	0.1	%			07/03/18 12:05	1
Percent Solids	83.0		0.1	0.1	%			07/03/18 12:05	1

Client Sample ID: SSHS-B1254-SUB-10-12

Lab Sample ID: 180-79440-21
Date Collected: 07/01/18 11:55
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 82.7

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6500		25	3.5	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Antimony	ND		1.2	0.42	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Arsenic	16		1.2	0.34	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Barium	59		25	1.3	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Beryllium	0.23	J	0.49	0.028	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Cadmium	0.27	J	0.62	0.045	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Calcium	14000		620	32	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Chromium	16		0.62	0.15	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Cobalt	3.9	J	6.2	0.36	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Copper	80		3.1	0.21	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Iron	32000		12	6.2	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Lead	23		1.2	0.30	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1

Client Sample ID: SSHS-B1254-SUB-10-12

Lab Sample ID: 180-79440-21

Date Collected: 07/01/18 11:55
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 82.7

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	2600		620	41	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Manganese	150		1.9	0.20	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Nickel	23		4.9	0.31	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Potassium	660		620	43	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Selenium	1.1	J	1.2	0.64	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Silver	ND		0.62	0.13	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Sodium	420	J	620	32	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Thallium	ND		2.5	0.26	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Vanadium	13		6.2	0.86	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1
Zinc	70		2.5	1.3	mg/Kg	☼	07/03/18 12:28	07/05/18 16:24	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.094	B	0.039	0.0086	mg/Kg	☼	07/05/18 06:32	07/05/18 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.3		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	82.7		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1254-SUB-12-14

Lab Sample ID: 180-79440-22

Date Collected: 07/01/18 12:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.3

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6600		25	3.5	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Antimony	ND		1.2	0.42	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Arsenic	28		1.2	0.34	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Barium	100		25	1.3	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Beryllium	0.30	J	0.49	0.028	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Cadmium	0.28	J	0.62	0.045	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Calcium	23000	F1 F2	620	32	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Chromium	24		0.62	0.15	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Cobalt	4.5	J	6.2	0.36	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Copper	120	F1	3.1	0.21	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Iron	39000		12	6.2	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Lead	34		1.2	0.31	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Magnesium	2600		620	41	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Manganese	180		1.9	0.20	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Nickel	32		4.9	0.31	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Potassium	870		620	43	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Selenium	2.3		1.2	0.64	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Silver	ND		0.62	0.13	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Sodium	540	J	620	32	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Thallium	ND		2.5	0.26	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Vanadium	15		6.2	0.86	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1
Zinc	83		2.5	1.3	mg/Kg	☼	07/03/18 12:28	07/05/18 15:54	1

Client Sample ID: SSHS-B1254-SUB-12-14

Lab Sample ID: 180-79440-22
Date Collected: 07/01/18 12:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.3

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069	B	0.039	0.0088	mg/Kg	☼	07/05/18 06:32	07/05/18 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.7		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	84.3		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: SSHS-B1252-SUB-10-12

Lab Sample ID: 180-79440-23
Date Collected: 07/01/18 11:15
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.4

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8200		23	3.3	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Antimony	ND		1.2	0.39	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Arsenic	17		1.2	0.32	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Barium	98		23	1.2	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Beryllium	0.29	J	0.46	0.026	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Cadmium	0.15	J	0.58	0.042	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Calcium	950		580	30	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Chromium	16		0.58	0.14	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Cobalt	5.1	J	5.8	0.34	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Copper	36		2.9	0.19	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Iron	36000		12	5.8	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Lead	11		1.2	0.29	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Magnesium	2100		580	38	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Manganese	150		1.7	0.19	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Nickel	15		4.6	0.29	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Potassium	1300		580	40	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Selenium	0.87	J	1.2	0.59	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Silver	ND		0.58	0.12	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Sodium	460	J	580	30	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Thallium	ND		2.3	0.24	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Vanadium	15		5.8	0.80	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1
Zinc	51		2.3	1.2	mg/Kg	☼	07/03/18 12:28	07/05/18 16:30	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J B	0.040	0.0089	mg/Kg	☼	07/05/18 06:32	07/05/18 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	83.4		0.1	0.1	%			07/03/18 12:38	1

Client Sample ID: PS-MET-DUP-1
Date Collected: 07/01/18 00:00
Date Received: 07/03/18 09:49

Lab Sample ID: 180-79440-24
Matrix: Solid
Percent Solids: 83.2

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6900		23	3.3	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Antimony	ND		1.2	0.39	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Arsenic	16		1.2	0.32	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Barium	89		23	1.2	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Beryllium	0.24	J	0.46	0.026	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Cadmium	0.15	J	0.58	0.042	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Calcium	820		580	30	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Chromium	13		0.58	0.14	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Cobalt	4.3	J	5.8	0.34	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Copper	32		2.9	0.19	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Iron	32000		12	5.8	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Lead	9.6		1.2	0.29	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Magnesium	1800		580	38	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Manganese	150		1.7	0.19	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Nickel	13		4.6	0.29	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Potassium	1100		580	40	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Selenium	ND		1.2	0.60	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Silver	ND		0.58	0.12	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Sodium	420	J	580	30	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Thallium	ND		2.3	0.24	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Vanadium	13		5.8	0.80	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1
Zinc	45		2.3	1.2	mg/Kg	☼	07/03/18 12:28	07/05/18 16:45	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	J B	0.039	0.0087	mg/Kg	☼	07/05/18 06:32	07/05/18 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.8		0.1	0.1	%			07/03/18 12:38	1
Percent Solids	83.2		0.1	0.1	%			07/03/18 12:38	1

Method: EPA 6010C - Metals (ICP)

Lab Sample ID: MB 180-249493/1-A
Matrix: Solid
Analysis Batch: 249711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	2.8	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Antimony	ND		1.0	0.34	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Arsenic	ND		1.0	0.28	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Barium	ND		20	1.1	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Beryllium	ND		0.40	0.023	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Cadmium	ND		0.50	0.036	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Calcium	ND		500	26	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Chromium	ND		0.50	0.12	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Cobalt	ND		5.0	0.29	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Copper	ND		2.5	0.17	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Iron	ND		10	5.1	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Lead	ND		1.0	0.25	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Magnesium	ND		500	33	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Manganese	ND		1.5	0.16	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Nickel	ND		4.0	0.25	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Potassium	ND		500	35	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Selenium	ND		1.0	0.52	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Silver	ND		0.50	0.11	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Sodium	ND		500	26	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Thallium	ND		2.0	0.21	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Vanadium	ND		5.0	0.70	mg/Kg		07/03/18 12:28	07/05/18 15:44	1
Zinc	ND		2.0	1.1	mg/Kg		07/03/18 12:28	07/05/18 15:44	1

Lab Sample ID: LCS 180-249493/2-A
Matrix: Solid
Analysis Batch: 249711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	195		mg/Kg		98	80 - 120
Antimony	50.0	49.2		mg/Kg		98	80 - 120
Arsenic	50.0	48.0		mg/Kg		96	80 - 120
Barium	200	197		mg/Kg		98	80 - 120
Beryllium	5.00	4.97		mg/Kg		99	80 - 120
Cadmium	5.00	4.94		mg/Kg		99	80 - 120
Calcium	5000	4960		mg/Kg		99	80 - 120
Chromium	20.0	19.5		mg/Kg		97	80 - 120
Cobalt	50.0	48.7		mg/Kg		97	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Iron	100	98.2		mg/Kg		98	80 - 120
Lead	50.0	46.2		mg/Kg		92	80 - 120
Magnesium	5000	4950		mg/Kg		99	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	48.3		mg/Kg		97	80 - 120
Potassium	5000	4810		mg/Kg		96	80 - 120
Selenium	50.0	47.6		mg/Kg		95	80 - 120
Silver	5.00	4.89		mg/Kg		98	80 - 120
Sodium	5000	5000		mg/Kg		100	80 - 120
Thallium	50.0	45.5		mg/Kg		91	80 - 120

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-249493/2-A
Matrix: Solid
Analysis Batch: 249711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	50.0	48.7		mg/Kg		97	80 - 120
Zinc	50.0	48.1		mg/Kg		96	80 - 120

Lab Sample ID: 180-79440-22 MS
Matrix: Solid
Analysis Batch: 249711

Client Sample ID: SSHS-B1254-SUB-12-14
Prep Type: Total/NA
Prep Batch: 249493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	6600		237	10200	4	mg/Kg	☼	1548	75 - 125
Antimony	ND		59.3	47.3		mg/Kg	☼	80	75 - 125
Arsenic	28		59.3	84.6		mg/Kg	☼	95	75 - 125
Barium	100		237	338		mg/Kg	☼	100	75 - 125
Beryllium	0.30	J	5.93	6.08		mg/Kg	☼	98	75 - 125
Cadmium	0.28	J	5.93	6.09		mg/Kg	☼	98	75 - 125
Calcium	23000	F1 F2	5930	30000		mg/Kg	☼	125	75 - 125
Chromium	24		23.7	48.5		mg/Kg	☼	105	75 - 125
Cobalt	4.5	J	59.3	62.5		mg/Kg	☼	98	75 - 125
Copper	120	F1	29.7	141		mg/Kg	☼	78	75 - 125
Iron	39000		119	37600	4	mg/Kg	☼	-1163	75 - 125
Lead	34		59.3	86.7		mg/Kg	☼	89	75 - 125
Magnesium	2600		5930	8700		mg/Kg	☼	102	75 - 125
Manganese	180		59.3	241		mg/Kg	☼	106	75 - 125
Nickel	32		59.3	87.5		mg/Kg	☼	94	75 - 125
Potassium	870		5930	7150		mg/Kg	☼	106	75 - 125
Selenium	2.3		59.3	57.4		mg/Kg	☼	93	75 - 125
Silver	ND		5.93	6.01		mg/Kg	☼	101	75 - 125
Sodium	540	J	5930	6480		mg/Kg	☼	100	75 - 125
Thallium	ND		59.3	50.0		mg/Kg	☼	84	75 - 125
Vanadium	15		59.3	75.3		mg/Kg	☼	102	75 - 125
Zinc	83		59.3	136		mg/Kg	☼	90	75 - 125

Lab Sample ID: 180-79440-22 MSD
Matrix: Solid
Analysis Batch: 249711

Client Sample ID: SSHS-B1254-SUB-12-14
Prep Type: Total/NA
Prep Batch: 249493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	6600		247	10900	4	mg/Kg	☼	1735	75 - 125	6	20
Antimony	ND		61.8	50.1		mg/Kg	☼	81	75 - 125	6	20
Arsenic	28		61.8	80.6		mg/Kg	☼	85	75 - 125	5	20
Barium	100		247	332		mg/Kg	☼	94	75 - 125	2	20
Beryllium	0.30	J	6.18	6.17		mg/Kg	☼	95	75 - 125	1	20
Cadmium	0.28	J	6.18	6.16		mg/Kg	☼	95	75 - 125	1	20
Calcium	23000	F1 F2	6180	20800	F1 F2	mg/Kg	☼	-30	75 - 125	36	20
Chromium	24		24.7	46.7		mg/Kg	☼	94	75 - 125	4	20
Cobalt	4.5	J	61.8	63.9		mg/Kg	☼	96	75 - 125	2	20
Copper	120	F1	30.9	137	F1	mg/Kg	☼	63	75 - 125	3	20
Iron	39000		124	38200	4	mg/Kg	☼	-633	75 - 125	2	20
Lead	34		61.8	82.5		mg/Kg	☼	79	75 - 125	5	20
Magnesium	2600		6180	8790		mg/Kg	☼	100	75 - 125	1	20

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-79440-22 MSD — **Client Sample ID: SSHS-B1254-SUB-12-14**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 249711 — **Prep Batch: 249493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	180		61.8	244		mg/Kg	☼	107	75 - 125	1	20
Nickel	32		61.8	89.0		mg/Kg	☼	93	75 - 125	2	20
Potassium	870		6180	7140		mg/Kg	☼	101	75 - 125	0	20
Selenium	2.3		61.8	58.3		mg/Kg	☼	91	75 - 125	2	20
Silver	ND		6.18	5.93		mg/Kg	☼	96	75 - 125	1	20
Sodium	540	J	6180	6460		mg/Kg	☼	96	75 - 125	0	20
Thallium	ND		61.8	51.8		mg/Kg	☼	84	75 - 125	3	20
Vanadium	15		61.8	76.7		mg/Kg	☼	100	75 - 125	2	20
Zinc	83		61.8	135		mg/Kg	☼	84	75 - 125	1	20

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-249613/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 249669 — **Prep Batch: 249613**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00817	J	0.033	0.0074	mg/Kg		07/05/18 06:32	07/05/18 12:43	1

Lab Sample ID: LCS 180-249613/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 249669 — **Prep Batch: 249613**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.416		mg/Kg		100	80 - 120

Lab Sample ID: 180-79440-22 MS — **Client Sample ID: SSHS-B1254-SUB-12-14**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 249669 — **Prep Batch: 249613**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.069	B	0.198	0.262		mg/Kg	☼	97	80 - 120

Lab Sample ID: 180-79440-22 MSD — **Client Sample ID: SSHS-B1254-SUB-12-14**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 249669 — **Prep Batch: 249613**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.069	B	0.191	0.262		mg/Kg	☼	101	80 - 120	0	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-79440-21 DU — **Client Sample ID: SSHS-B1254-SUB-10-12**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 249499

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17.3		17.4		%		0.8	20
Percent Solids	82.7		82.6		%		0.2	20

Metals

Prep Batch: 249493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-20	SSHS-B1251-SUB-10-12	Total/NA	Solid	3050B	
180-79440-21	SSHS-B1254-SUB-10-12	Total/NA	Solid	3050B	
180-79440-22	SSHS-B1254-SUB-12-14	Total/NA	Solid	3050B	
180-79440-23	SSHS-B1252-SUB-10-12	Total/NA	Solid	3050B	
180-79440-24	PS-MET-DUP-1	Total/NA	Solid	3050B	
MB 180-249493/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-249493/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-79440-22 MS	SSHS-B1254-SUB-12-14	Total/NA	Solid	3050B	
180-79440-22 MSD	SSHS-B1254-SUB-12-14	Total/NA	Solid	3050B	

Prep Batch: 249613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-20	SSHS-B1251-SUB-10-12	Total/NA	Solid	7471B	
180-79440-21	SSHS-B1254-SUB-10-12	Total/NA	Solid	7471B	
180-79440-22	SSHS-B1254-SUB-12-14	Total/NA	Solid	7471B	
180-79440-23	SSHS-B1252-SUB-10-12	Total/NA	Solid	7471B	
180-79440-24	PS-MET-DUP-1	Total/NA	Solid	7471B	
MB 180-249613/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-249613/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-79440-22 MS	SSHS-B1254-SUB-12-14	Total/NA	Solid	7471B	
180-79440-22 MSD	SSHS-B1254-SUB-12-14	Total/NA	Solid	7471B	

Analysis Batch: 249669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-20	SSHS-B1251-SUB-10-12	Total/NA	Solid	EPA 7471B	249613
180-79440-21	SSHS-B1254-SUB-10-12	Total/NA	Solid	EPA 7471B	249613
180-79440-22	SSHS-B1254-SUB-12-14	Total/NA	Solid	EPA 7471B	249613
180-79440-23	SSHS-B1252-SUB-10-12	Total/NA	Solid	EPA 7471B	249613
180-79440-24	PS-MET-DUP-1	Total/NA	Solid	EPA 7471B	249613
MB 180-249613/1-A	Method Blank	Total/NA	Solid	EPA 7471B	249613
LCS 180-249613/2-A	Lab Control Sample	Total/NA	Solid	EPA 7471B	249613
180-79440-22 MS	SSHS-B1254-SUB-12-14	Total/NA	Solid	EPA 7471B	249613
180-79440-22 MSD	SSHS-B1254-SUB-12-14	Total/NA	Solid	EPA 7471B	249613

Analysis Batch: 249711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-20	SSHS-B1251-SUB-10-12	Total/NA	Solid	EPA 6010C	249493
180-79440-21	SSHS-B1254-SUB-10-12	Total/NA	Solid	EPA 6010C	249493
180-79440-22	SSHS-B1254-SUB-12-14	Total/NA	Solid	EPA 6010C	249493
180-79440-23	SSHS-B1252-SUB-10-12	Total/NA	Solid	EPA 6010C	249493
180-79440-24	PS-MET-DUP-1	Total/NA	Solid	EPA 6010C	249493
MB 180-249493/1-A	Method Blank	Total/NA	Solid	EPA 6010C	249493
LCS 180-249493/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010C	249493
180-79440-22 MS	SSHS-B1254-SUB-12-14	Total/NA	Solid	EPA 6010C	249493
180-79440-22 MSD	SSHS-B1254-SUB-12-14	Total/NA	Solid	EPA 6010C	249493

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-3

General Chemistry

Analysis Batch: 249477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-20	SSHS-B1251-SUB-10-12	Total/NA	Solid	2540G	

Analysis Batch: 249499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-21	SSHS-B1254-SUB-10-12	Total/NA	Solid	2540G	
180-79440-22	SSHS-B1254-SUB-12-14	Total/NA	Solid	2540G	
180-79440-23	SSHS-B1252-SUB-10-12	Total/NA	Solid	2540G	
180-79440-24	PS-MET-DUP-1	Total/NA	Solid	2540G	
180-79440-21 DU	SSHS-B1254-SUB-10-12	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/12/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: 7/12/18
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	Sample Specific Notes:
SSHS-B1236-SUB-4-6	7/12/18	0800	C	S	2	N	N	X	
SSHS-B1236-SUB-6-8		0805	C	S	2	N	N	X	
SSHS-B1223-SUB-6-8		0830	C	S	2	N	N	X	
SSHS-B1235-SUB-4-6		0845	C	S	2	N	N	X	
SSHS-B1237-SUB-4-6		0930	C	S	2	N	N	X	
SSHS-B1237-SUB-8-10		0935	C	S	2	N	N	X	
SSHS-B1075-SUB-2-4		1000	C	S	2	N	N	X	
SSHS-B1078-SUB-2-4		1030	C	S	4	N	N	X	7_2_MS/MSD
SSHS-B1206-SUB-2-4		1130	C	S	2	N	N	X	
SSHS-B1206-SUB-6-8 4-6		1135	C	S	2	N	N	X	
SSHS-B1220-SUB 7+0/21 -6-8		1200	C	S	2	N	N	X	
7_2_FD_1		X	C	S	2	N	N	X	

180-79440 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 7/12/18 1600	Received by:	Company: TAPIT	Date/Time: 7-13-18
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 915
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/2/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JJ
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	Sample Specific Notes:
SSHS-B1207-SUB-2-4'	7/2/18	1300	C	S	2	N	N	X	
SSHS-B1233-SUB-4-6	↓	1330	C	S	2	N	N	X	
TZ_FB2	↓	X	C	S	2	N	N	X	
								1	

7/12/18 JT

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 7/2/18 1800	Received by:	Company:	Date/Time: 7-3-18
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9:15
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/1/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JY
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Al metals -6010C	Hg -7471B	Sample Specific Notes:
SSHS-B1204-SUB-2-4	7/1/18	0845	C	S	2	N	N	X			
SSHS-B1219-SUB-4-6		0915	C	S	2	N	N	X			
SSHS-B1219-SUB-10-12		0920	C	S	2	N	N	X			
SSHS-B1068-SUB-4-6		0950	C	S	2	N	N	X			
SSHS-B1068-SUB-10-12		1000	C	S	2	N	N	X			
SSHS-B1224-SUB-6-8		1030	C	S	2	N	N	X			
SSHS-B1224-SUB-8-10		1035	C	S	2	N	N	X			
SSHS-B1251-SUB-8-10-12		1045	C	S	2	N	N		X	X	
SSHS-B1254 SUB-10-12		1155	C	S	2	N	N		X	X	
SSHS-B1254-SUB-12-14		1200	C	S	4	N	N		X	X	PS-MS/MSD-95
SSHS-B1252-SUB-10-12		1115	C	S	2	N	N		X	X	
PS-Met-Dup-1		Y	C	S	2	N	N		X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								1	4	1	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geosyntec	7/2/18 1800	[signature]	TAPIH	7-3-18
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 915
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79440-3

Login Number: 79440
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79440-4
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/13/2018 4:51:07 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-4

Job ID: 180-79440-4

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79440-4

Comments
This report contains the PCB results of samples SSHS-B1251-SUB-10-12 (180-79440-20), SSHS-B1254-SUB-10-12 (180-79440-21), SSHS-B1254-SUB-12-14 (180-79440-22), SSHS-B1252-SUB-10-12 (180-79440-23), and PS-MET-DUP-1 (180-79440-24), activated on 7/6/18 by Jay Thompson.

Receipt
The samples were received on 7/3/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 4.4º C.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-250038 (CCV 180-250038/4) was above criteria for aroclor 1248. Samples with positive detections for aroclor 1248 were reanalyzed in analytical batch 180-250307.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-250038 (CCV 180-250038/5) was above criteria for 1 peak for aroclor 1260 on column RTX-CLP1. The associated positive sample results were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-4

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79440-4
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

Analysis Method	Prep Method	Matrix	Analyte

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79440-20	SSHS-B1251-SUB-10-12	Solid	07/01/18 10:45	07/03/18 09:49
180-79440-21	SSHS-B1254-SUB-10-12	Solid	07/01/18 11:55	07/03/18 09:49
180-79440-22	SSHS-B1254-SUB-12-14	Solid	07/01/18 12:00	07/03/18 09:49
180-79440-23	SSHS-B1252-SUB-10-12	Solid	07/01/18 11:15	07/03/18 09:49
180-79440-24	PS-MET-DUP-1	Solid	07/01/18 00:00	07/03/18 09:49

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-4

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-4

Client Sample ID: SSHS-B1251-SUB-10-12

Lab Sample ID: 180-79440-20
Date Collected: 07/01/18 10:45
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249819	07/07/18 04:45	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249875	07/09/18 06:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249889	07/09/18 06:41	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250038	07/10/18 09:59	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1254-SUB-10-12

Lab Sample ID: 180-79440-21
Date Collected: 07/01/18 11:55
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249819	07/07/18 04:45	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249875	07/09/18 06:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249889	07/09/18 06:41	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250038	07/10/18 10:18	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3541	RA		15.0 g	20.0 mL	249819	07/07/18 04:45	CBY	TAL PIT
Total/NA	Cleanup	3665A	RA		2 mL	2 mL	249875	07/09/18 06:12	JMO	TAL PIT
Total/NA	Cleanup	3660B	RA		2 mL	2 mL	249889	07/09/18 06:41	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A	RA	1			250307	07/12/18 08:25	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1254-SUB-12-14

Lab Sample ID: 180-79440-22
Date Collected: 07/01/18 12:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249819	07/07/18 04:45	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249875	07/09/18 06:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249889	07/09/18 06:41	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250038	07/10/18 10:37	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3541	RA		15.2 g	20.0 mL	249819	07/07/18 04:45	CBY	TAL PIT
Total/NA	Cleanup	3665A	RA		2 mL	2 mL	249875	07/09/18 06:12	JMO	TAL PIT
Total/NA	Cleanup	3660B	RA		2 mL	2 mL	249889	07/09/18 06:41	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A	RA	1			250307	07/12/18 08:43	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1252-SUB-10-12

Lab Sample ID: 180-79440-23
Date Collected: 07/01/18 11:15
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249819	07/07/18 04:45	CBY	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79440-4

Client Sample ID: SSHS-B1252-SUB-10-12

Lab Sample ID: 180-79440-23
Date Collected: 07/01/18 11:15
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3665A			2 mL	2 mL	249875	07/09/18 06:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249889	07/09/18 06:41	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250038	07/10/18 10:56	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3541	RA		15.0 g	20.0 mL	249819	07/07/18 04:45	CBY	TAL PIT
Total/NA	Cleanup	3665A	RA		2 mL	2 mL	249875	07/09/18 06:12	JMO	TAL PIT
Total/NA	Cleanup	3660B	RA		2 mL	2 mL	249889	07/09/18 06:41	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A	RA	1			250307	07/12/18 09:02	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: PS-MET-DUP-1

Lab Sample ID: 180-79440-24
Date Collected: 07/01/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249819	07/07/18 04:45	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249875	07/09/18 06:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249889	07/09/18 06:41	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250038	07/10/18 11:14	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3541	RA		15.0 g	20.0 mL	249819	07/07/18 04:45	CBY	TAL PIT
Total/NA	Cleanup	3665A	RA		2 mL	2 mL	249875	07/09/18 06:12	JMO	TAL PIT
Total/NA	Cleanup	3660B	RA		2 mL	2 mL	249889	07/09/18 06:41	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A	RA	1			250307	07/12/18 09:21	JMO	TAL PIT
	Instrument ID: CHGC10									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CBY = Charles Yushinski

Batch Type: Analysis

JMO = John Oravec

Client Sample ID: SSHS-B1251-SUB-10-12

Lab Sample ID: 180-79440-20
Date Collected: 07/01/18 10:45
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	07/07/18 04:45	07/10/18 09:59	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 04:45	07/10/18 09:59	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 09:59	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 09:59	1
PCB-1248	ND		20	16	ug/Kg	☼	07/07/18 04:45	07/10/18 09:59	1
PCB-1254	ND		20	14	ug/Kg	☼	07/07/18 04:45	07/10/18 09:59	1
PCB-1260	ND		20	5.7	ug/Kg	☼	07/07/18 04:45	07/10/18 09:59	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 04:45	07/10/18 09:59	1
PCB-1268	ND		20	9.7	ug/Kg	☼	07/07/18 04:45	07/10/18 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/07/18 04:45*	*07/10/18 09:59*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*07/07/18 04:45*	*07/10/18 09:59*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/07/18 04:45*	*07/10/18 09:59*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*07/07/18 04:45*	*07/10/18 09:59*	*1*

Client Sample ID: SSHS-B1254-SUB-10-12

Lab Sample ID: 180-79440-21
Date Collected: 07/01/18 11:55
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 82.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	07/07/18 04:45	07/10/18 10:18	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 04:45	07/10/18 10:18	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 10:18	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 10:18	1
PCB-1254	**430**		20	14	ug/Kg	☼	07/07/18 04:45	07/10/18 10:18	1
PCB-1260	**70**		20	5.7	ug/Kg	☼	07/07/18 04:45	07/10/18 10:18	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 04:45	07/10/18 10:18	1
PCB-1268	ND		20	9.8	ug/Kg	☼	07/07/18 04:45	07/10/18 10:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*07/07/18 04:45*	*07/10/18 10:18*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*07/07/18 04:45*	*07/10/18 10:18*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*	*07/07/18 04:45*	*07/10/18 10:18*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*	*07/07/18 04:45*	*07/10/18 10:18*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	**1200**		20	16	ug/Kg	☼	07/07/18 04:45	07/12/18 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/07/18 04:45*	*07/12/18 08:25*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*07/07/18 04:45*	*07/12/18 08:25*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/07/18 04:45*	*07/12/18 08:25*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*07/07/18 04:45*	*07/12/18 08:25*	*1*

Client Sample ID: SSHS-B1254-SUB-12-14

Lab Sample ID: 180-79440-22
Date Collected: 07/01/18 12:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 84.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.3	ug/Kg	☼	07/07/18 04:45	07/10/18 10:37	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 04:45	07/10/18 10:37	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 10:37	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 10:37	1
PCB-1254	**110**		20	13	ug/Kg	☼	07/07/18 04:45	07/10/18 10:37	1
PCB-1260	**20**		20	5.5	ug/Kg	☼	07/07/18 04:45	07/10/18 10:37	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 04:45	07/10/18 10:37	1
PCB-1268	ND		20	9.5	ug/Kg	☼	07/07/18 04:45	07/10/18 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/07/18 04:45*	*07/10/18 10:37*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*07/07/18 04:45*	*07/10/18 10:37*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/07/18 04:45*	*07/10/18 10:37*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*07/07/18 04:45*	*07/10/18 10:37*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	**310**		20	15	ug/Kg	☼	07/07/18 04:45	07/12/18 08:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*07/07/18 04:45*	*07/12/18 08:43*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*07/07/18 04:45*	*07/12/18 08:43*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/07/18 04:45*	*07/12/18 08:43*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*07/07/18 04:45*	*07/12/18 08:43*	*1*

Client Sample ID: SSHS-B1252-SUB-10-12

Lab Sample ID: 180-79440-23
Date Collected: 07/01/18 11:15
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	07/07/18 04:45	07/10/18 10:56	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 04:45	07/10/18 10:56	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 10:56	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 10:56	1
PCB-1254	**17**	**J**	20	14	ug/Kg	☼	07/07/18 04:45	07/10/18 10:56	1
PCB-1260	ND		20	5.7	ug/Kg	☼	07/07/18 04:45	07/10/18 10:56	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 04:45	07/10/18 10:56	1
PCB-1268	ND		20	9.7	ug/Kg	☼	07/07/18 04:45	07/10/18 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/07/18 04:45*	*07/10/18 10:56*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*07/07/18 04:45*	*07/10/18 10:56*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/07/18 04:45*	*07/10/18 10:56*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*07/07/18 04:45*	*07/10/18 10:56*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	**59**		20	16	ug/Kg	☼	07/07/18 04:45	07/12/18 09:02	1

Client Sample ID: SSHS-B1252-SUB-10-12

Lab Sample ID: 180-79440-23
Date Collected: 07/01/18 11:15
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*07/07/18 04:45*	*07/12/18 09:02*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/07/18 04:45*	*07/12/18 09:02*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/07/18 04:45*	*07/12/18 09:02*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*07/07/18 04:45*	*07/12/18 09:02*	*1*

Client Sample ID: PS-MET-DUP-1

Lab Sample ID: 180-79440-24
Date Collected: 07/01/18 00:00
Matrix: Solid
Date Received: 07/03/18 09:49
Percent Solids: 83.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	07/07/18 04:45	07/10/18 11:14	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 04:45	07/10/18 11:14	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 11:14	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 04:45	07/10/18 11:14	1
PCB-1254	ND		20	14	ug/Kg	☼	07/07/18 04:45	07/10/18 11:14	1
PCB-1260	ND		20	5.7	ug/Kg	☼	07/07/18 04:45	07/10/18 11:14	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 04:45	07/10/18 11:14	1
PCB-1268	ND		20	9.7	ug/Kg	☼	07/07/18 04:45	07/10/18 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*	*07/07/18 04:45*	*07/10/18 11:14*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*07/07/18 04:45*	*07/10/18 11:14*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/07/18 04:45*	*07/10/18 11:14*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*07/07/18 04:45*	*07/10/18 11:14*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	**32**		20	16	ug/Kg	☼	07/07/18 04:45	07/12/18 09:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*07/07/18 04:45*	*07/12/18 09:21*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*07/07/18 04:45*	*07/12/18 09:21*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/07/18 04:45*	*07/12/18 09:21*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*07/07/18 04:45*	*07/12/18 09:21*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-249819/1-D
Matrix: Solid
Analysis Batch: 250038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/07/18 04:45	07/10/18 09:03	1
PCB-1221	ND		17	11	ug/Kg		07/07/18 04:45	07/10/18 09:03	1
PCB-1232	ND		17	9.9	ug/Kg		07/07/18 04:45	07/10/18 09:03	1
PCB-1242	ND		17	10	ug/Kg		07/07/18 04:45	07/10/18 09:03	1
PCB-1248	ND		17	13	ug/Kg		07/07/18 04:45	07/10/18 09:03	1
PCB-1254	ND		17	11	ug/Kg		07/07/18 04:45	07/10/18 09:03	1
PCB-1260	ND		17	4.7	ug/Kg		07/07/18 04:45	07/10/18 09:03	1
PCB-1262	ND		17	12	ug/Kg		07/07/18 04:45	07/10/18 09:03	1
PCB-1268	ND		17	8.1	ug/Kg		07/07/18 04:45	07/10/18 09:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*07/07/18 04:45*	*07/10/18 09:03*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/07/18 04:45*	*07/10/18 09:03*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*	*07/07/18 04:45*	*07/10/18 09:03*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*07/07/18 04:45*	*07/10/18 09:03*	*1*

Lab Sample ID: LCS 180-249819/2-D
Matrix: Solid
Analysis Batch: 250038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249819

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1190		ug/Kg		89	46 - 122		
PCB-1260			1330	1140		ug/Kg		86	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*94*		*44 - 114*

Lab Sample ID: LCSD 180-249819/3-D
Matrix: Solid
Analysis Batch: 250038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 249819

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1330	1130		ug/Kg		85	46 - 122	5	23
PCB-1260			1330	1090		ug/Kg		82	51 - 119	5	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*

GC Semi VOA

Prep Batch: 249819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-20	SSHS-B1251-SUB-10-12	Total/NA	Solid	3541	
180-79440-21 - RA	SSHS-B1254-SUB-10-12	Total/NA	Solid	3541	
180-79440-21	SSHS-B1254-SUB-10-12	Total/NA	Solid	3541	
180-79440-22	SSHS-B1254-SUB-12-14	Total/NA	Solid	3541	
180-79440-22 - RA	SSHS-B1254-SUB-12-14	Total/NA	Solid	3541	
180-79440-23 - RA	SSHS-B1252-SUB-10-12	Total/NA	Solid	3541	
180-79440-23	SSHS-B1252-SUB-10-12	Total/NA	Solid	3541	
180-79440-24 - RA	PS-MET-DUP-1	Total/NA	Solid	3541	
180-79440-24	PS-MET-DUP-1	Total/NA	Solid	3541	
MB 180-249819/1-D	Method Blank	Total/NA	Solid	3541	
LCS 180-249819/2-D	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-249819/3-D	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 249875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-20	SSHS-B1251-SUB-10-12	Total/NA	Solid	3665A	249819
180-79440-21 - RA	SSHS-B1254-SUB-10-12	Total/NA	Solid	3665A	249819
180-79440-21	SSHS-B1254-SUB-10-12	Total/NA	Solid	3665A	249819
180-79440-22 - RA	SSHS-B1254-SUB-12-14	Total/NA	Solid	3665A	249819
180-79440-22	SSHS-B1254-SUB-12-14	Total/NA	Solid	3665A	249819
180-79440-23	SSHS-B1252-SUB-10-12	Total/NA	Solid	3665A	249819
180-79440-23 - RA	SSHS-B1252-SUB-10-12	Total/NA	Solid	3665A	249819
180-79440-24	PS-MET-DUP-1	Total/NA	Solid	3665A	249819
180-79440-24 - RA	PS-MET-DUP-1	Total/NA	Solid	3665A	249819
MB 180-249819/1-D	Method Blank	Total/NA	Solid	3665A	249819
LCS 180-249819/2-D	Lab Control Sample	Total/NA	Solid	3665A	249819
LCSD 180-249819/3-D	Lab Control Sample Dup	Total/NA	Solid	3665A	249819

Cleanup Batch: 249889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-20	SSHS-B1251-SUB-10-12	Total/NA	Solid	3660B	249875
180-79440-21	SSHS-B1254-SUB-10-12	Total/NA	Solid	3660B	249875
180-79440-21 - RA	SSHS-B1254-SUB-10-12	Total/NA	Solid	3660B	249875
180-79440-22	SSHS-B1254-SUB-12-14	Total/NA	Solid	3660B	249875
180-79440-22 - RA	SSHS-B1254-SUB-12-14	Total/NA	Solid	3660B	249875
180-79440-23	SSHS-B1252-SUB-10-12	Total/NA	Solid	3660B	249875
180-79440-23 - RA	SSHS-B1252-SUB-10-12	Total/NA	Solid	3660B	249875
180-79440-24 - RA	PS-MET-DUP-1	Total/NA	Solid	3660B	249875
180-79440-24	PS-MET-DUP-1	Total/NA	Solid	3660B	249875
MB 180-249819/1-D	Method Blank	Total/NA	Solid	3660B	249875
LCS 180-249819/2-D	Lab Control Sample	Total/NA	Solid	3660B	249875
LCSD 180-249819/3-D	Lab Control Sample Dup	Total/NA	Solid	3660B	249875

Analysis Batch: 250038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-20	SSHS-B1251-SUB-10-12	Total/NA	Solid	EPA 8082A	249889
180-79440-21	SSHS-B1254-SUB-10-12	Total/NA	Solid	EPA 8082A	249889
180-79440-22	SSHS-B1254-SUB-12-14	Total/NA	Solid	EPA 8082A	249889
180-79440-23	SSHS-B1252-SUB-10-12	Total/NA	Solid	EPA 8082A	249889
180-79440-24	PS-MET-DUP-1	Total/NA	Solid	EPA 8082A	249889
MB 180-249819/1-D	Method Blank	Total/NA	Solid	EPA 8082A	249889

GC Semi VOA (Continued)

Analysis Batch: 250038 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-249819/2-D	Lab Control Sample	Total/NA	Solid	EPA 8082A	249889
LCSD 180-249819/3-D	Lab Control Sample Dup	Total/NA	Solid	EPA 8082A	249889

Analysis Batch: 250307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79440-21 - RA	SSHS-B1254-SUB-10-12	Total/NA	Solid	EPA 8082A	249889
180-79440-22 - RA	SSHS-B1254-SUB-12-14	Total/NA	Solid	EPA 8082A	249889
180-79440-23 - RA	SSHS-B1252-SUB-10-12	Total/NA	Solid	EPA 8082A	249889
180-79440-24 - RA	PS-MET-DUP-1	Total/NA	Solid	EPA 8082A	249889

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/12/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: 7/12/18
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	Sample Specific Notes:
SSHS-B1236-SUB-4-6	7/12/18	0800	C	S	2	N	N	X	
SSHS-B1236-SUB-6-8		0805	C	S	2	N	N	X	
SSHS-B1223-SUB-6-8		0830	C	S	2	N	N	X	
SSHS-B1235-SUB-4-6		0845	C	S	2	N	N	X	
SSHS-B1237-SUB-4-6		0930	C	S	2	N	N	X	
SSHS-B1237-SUB-8-10		0935	C	S	2	N	N	X	
SSHS-B1075-SUB-2-4		1000	C	S	2	N	N	X	
SSHS-B1078-SUB-2-4		1030	C	S	4	N	N	X	7_2_MS/MSD
SSHS-B1206-SUB-2-4		1130	C	S	2	N	N	X	
SSHS-B1206-SUB-6-8 4-6		1135	C	S	2	N	N	X	
SSHS-B1220-SUB 7+0/21 -6-8		1200	C	S	2	N	N	X	
7_2_FD_1	✓	X	C	S	2	N	N	X	

180-79440 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 7/12/18 1600	Received by:	Company: TAPIT	Date/Time: 7-13-18 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/2/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JJ
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Sample Specific Notes:
SSHS-B1207-SUB-2-4	7/2/18	1300	C	S	2	N	N	X	
SSHS-B1233-SUB-4-6	↓	1330	C	S	3	N	N	X	
7_2_FR2	↓	X	C	S	2	N	N	X	

JT 7/2/18

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geosyntec	7/2/18 1800	Debbie Watson	TAPitt	7-3-18
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9:15
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/1/18	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JY
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Al metals -6010C	Hg -7471B	Sample Specific Notes:
SSHS-B1204-SUB-2-4	7/1/18	0845	C	S	2	N	N	X			
SSHS-B1219-SUB-4-6		0915	C	S	2	N	N	X			
SSHS-B1219-SUB-10-12		0920	C	S	2	N	N	X			
SSHS-B1068-SUB-4-6		0950	C	S	2	N	N	X			
SSHS-B1068-SUB-10-12		1000	C	S	2	N	N	X			
SSHS-B1224-SUB-6-8		1030	C	S	2	N	N	X			
SSHS-B1224-SUB-8-10		1035	C	S	2	N	N	X			
SSHS-B1251-SUB-8-10-12		1045	C	S	2	N	N		X	X	
SSHS-B1254 SUB 55 Wind -10-12		1155	C	S	2	N	N		X	X	
SSHS-B1254-SUB-12-14		1200	C	S	4	N	N		X	X	PS-MS/MSD-95
SSHS-B1252-SUB-10-12		1115	C	S	2	N	N		X	X	
PS-Met-Dup-1		Y	C	S	2	N	N		X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								1	1	1	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geosyntec	7/2/18 1800	[signature]	TAPIH	7-3-18 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79440-4

Login Number: 79440
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79550-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/11/2018 3:46:21 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Job ID: 180-79550-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79550-1

Comments
Notation was made to the chains of custody regarding various items such as cooler delivery times, sample IDs, and collection times.

Receipt
The samples were received on 7/7/2018 9:30 AM and 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8º C and 3.8º C. The coolers were delivered by FEDEX at separate times on 7/7/2018.

GC Semi VOA
Method(s) 8082A: Sample SSHS-B1198-SUB-10-12 (180-79550-9) had the recovery of a surrogate decachlorobiphenyl above the control limits on one column.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-249863 (CCV 180-249863/1) was above criteria for 1 peak for aroclor 1254 on column RTX-CLP2. The associated sample results for aroclor 1254 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-249863 (CCV 180-249863/26) was above criteria for 2 peaks for aroclor 1248 on column RTX-CLP1. The associated positive sample results for aroclor 1248 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79550-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79550-1	SSHS-B1249-SUB-10-12	Solid	07/06/18 10:00	07/07/18 09:30
180-79550-2	SSHS-B1249-SUB-10-12-DUP	Solid	07/06/18 10:05	07/07/18 09:30
180-79550-3	SSHS-B1104-SUB-12-14	Solid	07/06/18 07:50	07/07/18 09:30
180-79550-4	SSHS-B1104-SUB-4-6	Solid	07/05/18 18:45	07/07/18 09:30
180-79550-5	SSHS-B1091-SUB-14-16	Solid	07/06/18 07:00	07/07/18 09:30
180-79550-6	SSHS-B1162-SUB-8-10	Solid	07/05/18 17:15	07/07/18 09:30
180-79550-7	SSHS-B1228-SUB-2-4	Solid	07/06/18 08:00	07/07/18 09:30
180-79550-8	SSHS-B1198-SUB-8-10	Solid	07/06/18 07:30	07/07/18 09:30
180-79550-9	SSHS-B1198-SUB-10-12	Solid	07/06/18 07:35	07/07/18 09:30
180-79550-10	SSHS-B1198-SUB-12-14	Solid	07/06/18 07:40	07/07/18 09:30
180-79550-11	SSHS-B1205-SUB-2-4	Solid	07/05/18 18:10	07/07/18 09:30
180-79550-12	SSHS-B1205-SUB-12-14	Solid	07/05/18 18:15	07/07/18 09:30
180-79550-13	SSHS-B1092-SUB-14-16	Solid	07/06/18 09:00	07/07/18 09:30
180-79550-14	SSHS-B1092-SUB-14-16-DUP	Solid	07/06/18 09:00	07/07/18 09:30
180-79550-15	SSHS-B1093-SUB-14-16	Solid	07/06/18 09:15	07/07/18 09:30
180-79550-16	SSHS-B1093-SUB-14-16-DUP	Solid	07/06/18 09:15	07/07/18 09:30
180-79550-17	SSHS-B1094-SUB-14-16	Solid	07/06/18 09:10	07/07/18 09:30
180-79550-18	SSHS-B1081-SUB-6-8	Solid	07/06/18 10:30	07/07/18 09:30
180-79550-19	SSHS-B1122-SUB-10-12	Solid	07/06/18 11:00	07/07/18 09:30
180-79550-20	SSHS-B1076-SUB-4-6	Solid	07/06/18 13:00	07/07/18 09:30
180-79550-21	SSHS-B1076-SUB-4-6-DUP	Solid	07/06/18 13:00	07/07/18 09:30
180-79550-22	SSHS-B1158-SUB-8-10	Solid	07/06/18 14:00	07/07/18 09:30
180-79550-23	SSHS-B1193-SUB-4-6	Solid	07/06/18 14:20	07/07/18 09:30
180-79550-24	SSHS-B1086-SUB-10-12	Solid	07/06/18 14:40	07/07/18 09:30
180-79550-25	SSHS-B1247-SUB-10-12	Solid	07/06/18 16:20	07/07/18 09:30
180-79550-26	SSHS-B1203-SUB-4-6	Solid	07/06/18 17:00	07/07/18 09:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Client Sample ID: SSHS-B1249-SUB-10-12
Lab Sample ID: 180-79550-1
Date Collected: 07/06/18 10:00
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1249-SUB-10-12
Lab Sample ID: 180-79550-1
Date Collected: 07/06/18 10:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 11:19	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1249-SUB-10-12-DUP
Lab Sample ID: 180-79550-2
Date Collected: 07/06/18 10:05
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1249-SUB-10-12-DUP
Lab Sample ID: 180-79550-2
Date Collected: 07/06/18 10:05
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 11:41	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1104-SUB-12-14
Lab Sample ID: 180-79550-3
Date Collected: 07/06/18 07:50
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Client Sample ID: SSHS-B1104-SUB-12-14

Lab Sample ID: 180-79550-3
Date Collected: 07/06/18 07:50
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 12:02	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1104-SUB-4-6

Lab Sample ID: 180-79550-4
Date Collected: 07/05/18 18:45
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1104-SUB-4-6

Lab Sample ID: 180-79550-4
Date Collected: 07/05/18 18:45
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 10:15	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1091-SUB-14-16

Lab Sample ID: 180-79550-5
Date Collected: 07/06/18 07:00
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1091-SUB-14-16

Lab Sample ID: 180-79550-5
Date Collected: 07/06/18 07:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 12:22	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Client Sample ID: SSHS-B1162-SUB-8-10
Date Collected: 07/05/18 17:15
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1162-SUB-8-10
Date Collected: 07/05/18 17:15
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-6
Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 12:03	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1228-SUB-2-4
Date Collected: 07/06/18 08:00
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1228-SUB-2-4
Date Collected: 07/06/18 08:00
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-7
Matrix: Solid
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 12:41	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1198-SUB-8-10
Date Collected: 07/06/18 07:30
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Client Sample ID: SSHS-B1198-SUB-8-10
Lab Sample ID: 180-79550-8
Date Collected: 07/06/18 07:30
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 12:59	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1198-SUB-10-12
Lab Sample ID: 180-79550-9
Date Collected: 07/06/18 07:35
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1198-SUB-10-12
Lab Sample ID: 180-79550-9
Date Collected: 07/06/18 07:35
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 13:18	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1198-SUB-12-14
Lab Sample ID: 180-79550-10
Date Collected: 07/06/18 07:40
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1198-SUB-12-14
Lab Sample ID: 180-79550-10
Date Collected: 07/06/18 07:40
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 13:37	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Client Sample ID: SSHS-B1205-SUB-2-4
Date Collected: 07/05/18 18:10
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1205-SUB-2-4
Date Collected: 07/05/18 18:10
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-11
Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 10:37	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1205-SUB-12-14
Date Collected: 07/05/18 18:15
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1205-SUB-12-14
Date Collected: 07/05/18 18:15
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-12
Matrix: Solid
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 10:58	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1092-SUB-14-16
Date Collected: 07/06/18 09:00
Date Received: 07/07/18 09:30

Lab Sample ID: 180-79550-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Client Sample ID: SSHS-B1092-SUB-14-16

Lab Sample ID: 180-79550-13
Date Collected: 07/06/18 09:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 13:55	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1092-SUB-14-16-DUP

Lab Sample ID: 180-79550-14
Date Collected: 07/06/18 09:00
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1092-SUB-14-16-DUP

Lab Sample ID: 180-79550-14
Date Collected: 07/06/18 09:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 14:14	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1093-SUB-14-16

Lab Sample ID: 180-79550-15
Date Collected: 07/06/18 09:15
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1093-SUB-14-16

Lab Sample ID: 180-79550-15
Date Collected: 07/06/18 09:15
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 12:24	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1093-SUB-14-16-DUP

Lab Sample ID: 180-79550-16
Date Collected: 07/06/18 09:15
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1093-SUB-14-16-DUP

Lab Sample ID: 180-79550-16
Date Collected: 07/06/18 09:15
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 12:46	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1094-SUB-14-16

Lab Sample ID: 180-79550-17
Date Collected: 07/06/18 09:10
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1094-SUB-14-16

Lab Sample ID: 180-79550-17
Date Collected: 07/06/18 09:10
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 14:33	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1081-SUB-6-8

Lab Sample ID: 180-79550-18
Date Collected: 07/06/18 10:30
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Client Sample ID: SSHS-B1081-SUB-6-8

Lab Sample ID: 180-79550-18
Date Collected: 07/06/18 10:30
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 16:25	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1122-SUB-10-12

Lab Sample ID: 180-79550-19
Date Collected: 07/06/18 11:00
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1122-SUB-10-12

Lab Sample ID: 180-79550-19
Date Collected: 07/06/18 11:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 16:44	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1076-SUB-4-6

Lab Sample ID: 180-79550-20
Date Collected: 07/06/18 13:00
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249892	07/09/18 08:05	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1076-SUB-4-6

Lab Sample ID: 180-79550-20
Date Collected: 07/06/18 13:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 13:07	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Client Sample ID: SSHS-B1076-SUB-4-6-DUP
Lab Sample ID: 180-79550-21
Date Collected: 07/06/18 13:00
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249898	07/09/18 08:27	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1076-SUB-4-6-DUP
Lab Sample ID: 180-79550-21
Date Collected: 07/06/18 13:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 14:11	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1158-SUB-8-10
Lab Sample ID: 180-79550-22
Date Collected: 07/06/18 14:00
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249898	07/09/18 08:27	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1158-SUB-8-10
Lab Sample ID: 180-79550-22
Date Collected: 07/06/18 14:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 14:33	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1193-SUB-4-6
Lab Sample ID: 180-79550-23
Date Collected: 07/06/18 14:20
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249898	07/09/18 08:27	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1193-SUB-4-6

Lab Sample ID: 180-79550-23
Date Collected: 07/06/18 14:20
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 14:55	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1086-SUB-10-12

Lab Sample ID: 180-79550-24
Date Collected: 07/06/18 14:40
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249898	07/09/18 08:27	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1086-SUB-10-12

Lab Sample ID: 180-79550-24
Date Collected: 07/06/18 14:40
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249835	07/07/18 11:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249866	07/09/18 06:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249867	07/09/18 06:07	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250024	07/10/18 15:17	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1247-SUB-10-12

Lab Sample ID: 180-79550-25
Date Collected: 07/06/18 16:20
Matrix: Solid
Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249898	07/09/18 08:27	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1247-SUB-10-12

Lab Sample ID: 180-79550-25
Date Collected: 07/06/18 16:20
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 17:03	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79550-1

Client Sample ID: SSHS-B1203-SUB-4-6

Lab Sample ID: 180-79550-26

Date Collected: 07/06/18 17:00

Matrix: Solid

Date Received: 07/07/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			249898	07/09/18 08:27	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1203-SUB-4-6

Lab Sample ID: 180-79550-26

Date Collected: 07/06/18 17:00

Matrix: Solid

Date Received: 07/07/18 09:30

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	249834	07/07/18 10:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	249868	07/09/18 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	249869	07/09/18 06:10	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			249863	07/09/18 17:22	JMO	TAL PIT
	Instrument ID: CHGC10									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CBY = Charles Yushinski

Batch Type: Analysis

CRM = Caitlin McEvoy

JMO = John Oravec

Client Sample ID: SSHS-B1249-SUB-10-12

Lab Sample ID: 180-79550-1
Date Collected: 07/06/18 10:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 90.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/07/18 11:30	07/10/18 11:19	1
PCB-1221	ND		18	12	ug/Kg	☼	07/07/18 11:30	07/10/18 11:19	1
PCB-1232	ND		18	11	ug/Kg	☼	07/07/18 11:30	07/10/18 11:19	1
PCB-1242	ND		18	11	ug/Kg	☼	07/07/18 11:30	07/10/18 11:19	1
PCB-1248	ND		18	14	ug/Kg	☼	07/07/18 11:30	07/10/18 11:19	1
PCB-1254	ND		18	12	ug/Kg	☼	07/07/18 11:30	07/10/18 11:19	1
PCB-1260	ND		18	5.2	ug/Kg	☼	07/07/18 11:30	07/10/18 11:19	1
PCB-1262	ND		18	13	ug/Kg	☼	07/07/18 11:30	07/10/18 11:19	1
PCB-1268	ND		18	8.8	ug/Kg	☼	07/07/18 11:30	07/10/18 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*07/07/18 11:30*	*07/10/18 11:19*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*07/07/18 11:30*	*07/10/18 11:19*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*07/07/18 11:30*	*07/10/18 11:19*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*07/07/18 11:30*	*07/10/18 11:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**90.7**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1249-SUB-10-12-DUP

Lab Sample ID: 180-79550-2
Date Collected: 07/06/18 10:05
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 83.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	07/07/18 11:30	07/10/18 11:41	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 11:30	07/10/18 11:41	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 11:30	07/10/18 11:41	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 11:30	07/10/18 11:41	1
PCB-1248	ND		20	16	ug/Kg	☼	07/07/18 11:30	07/10/18 11:41	1
PCB-1254	ND		20	14	ug/Kg	☼	07/07/18 11:30	07/10/18 11:41	1
PCB-1260	ND		20	5.7	ug/Kg	☼	07/07/18 11:30	07/10/18 11:41	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 11:30	07/10/18 11:41	1
PCB-1268	ND		20	9.7	ug/Kg	☼	07/07/18 11:30	07/10/18 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*07/07/18 11:30*	*07/10/18 11:41*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*	*07/07/18 11:30*	*07/10/18 11:41*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/07/18 11:30*	*07/10/18 11:41*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/07/18 11:30*	*07/10/18 11:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.6**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**83.4**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1104-SUB-12-14

Lab Sample ID: 180-79550-3
Date Collected: 07/06/18 07:50
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 90.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	07/07/18 11:30	07/10/18 12:02	1
PCB-1221	ND		18	12	ug/Kg	☼	07/07/18 11:30	07/10/18 12:02	1
PCB-1232	ND		18	11	ug/Kg	☼	07/07/18 11:30	07/10/18 12:02	1
PCB-1242	ND		18	11	ug/Kg	☼	07/07/18 11:30	07/10/18 12:02	1
PCB-1248	ND		18	15	ug/Kg	☼	07/07/18 11:30	07/10/18 12:02	1
PCB-1254	ND		18	13	ug/Kg	☼	07/07/18 11:30	07/10/18 12:02	1
PCB-1260	ND		18	5.2	ug/Kg	☼	07/07/18 11:30	07/10/18 12:02	1
PCB-1262	ND		18	13	ug/Kg	☼	07/07/18 11:30	07/10/18 12:02	1
PCB-1268	ND		18	8.9	ug/Kg	☼	07/07/18 11:30	07/10/18 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*33 - 137*	*07/07/18 11:30*	*07/10/18 12:02*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*33 - 137*	*07/07/18 11:30*	*07/10/18 12:02*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/07/18 11:30*	*07/10/18 12:02*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/07/18 11:30*	*07/10/18 12:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**90.4**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1104-SUB-4-6

Lab Sample ID: 180-79550-4
Date Collected: 07/05/18 18:45
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 88.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/07/18 11:30	07/10/18 10:15	1
PCB-1221	ND		19	12	ug/Kg	☼	07/07/18 11:30	07/10/18 10:15	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 11:30	07/10/18 10:15	1
PCB-1242	ND		19	11	ug/Kg	☼	07/07/18 11:30	07/10/18 10:15	1
PCB-1248	**3600**		19	15	ug/Kg	☼	07/07/18 11:30	07/10/18 10:15	1
PCB-1254	**1700**		19	13	ug/Kg	☼	07/07/18 11:30	07/10/18 10:15	1
PCB-1260	**480**		19	5.4	ug/Kg	☼	07/07/18 11:30	07/10/18 10:15	1
PCB-1262	ND		19	13	ug/Kg	☼	07/07/18 11:30	07/10/18 10:15	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/07/18 11:30	07/10/18 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*07/07/18 11:30*	*07/10/18 10:15*	*1*
DCB Decachlorobiphenyl (Surr)	*104*		*33 - 137*	*07/07/18 11:30*	*07/10/18 10:15*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*	*07/07/18 11:30*	*07/10/18 10:15*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/07/18 11:30*	*07/10/18 10:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**88.3**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1091-SUB-14-16

Lab Sample ID: 180-79550-5
Date Collected: 07/06/18 07:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 78.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	07/07/18 10:30	07/09/18 12:22	1
PCB-1221	ND		21	14	ug/Kg	☼	07/07/18 10:30	07/09/18 12:22	1
PCB-1232	ND		21	13	ug/Kg	☼	07/07/18 10:30	07/09/18 12:22	1
PCB-1242	ND		21	13	ug/Kg	☼	07/07/18 10:30	07/09/18 12:22	1
PCB-1248	ND		21	17	ug/Kg	☼	07/07/18 10:30	07/09/18 12:22	1
PCB-1254	ND		21	15	ug/Kg	☼	07/07/18 10:30	07/09/18 12:22	1
PCB-1260	ND		21	6.0	ug/Kg	☼	07/07/18 10:30	07/09/18 12:22	1
PCB-1262	ND		21	15	ug/Kg	☼	07/07/18 10:30	07/09/18 12:22	1
PCB-1268	ND		21	10	ug/Kg	☼	07/07/18 10:30	07/09/18 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*	*07/07/18 10:30*	*07/09/18 12:22*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*07/07/18 10:30*	*07/09/18 12:22*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/07/18 10:30*	*07/09/18 12:22*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/07/18 10:30*	*07/09/18 12:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.5**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**78.5**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1162-SUB-8-10

Lab Sample ID: 180-79550-6
Date Collected: 07/05/18 17:15
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 92.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/07/18 10:30	07/09/18 12:03	1
PCB-1221	ND		18	12	ug/Kg	☼	07/07/18 10:30	07/09/18 12:03	1
PCB-1232	ND		18	11	ug/Kg	☼	07/07/18 10:30	07/09/18 12:03	1
PCB-1242	ND		18	11	ug/Kg	☼	07/07/18 10:30	07/09/18 12:03	1
PCB-1248	**250**		18	14	ug/Kg	☼	07/07/18 10:30	07/09/18 12:03	1
PCB-1254	**89**		18	12	ug/Kg	☼	07/07/18 10:30	07/09/18 12:03	1
PCB-1260	**14**	**J p**	18	5.1	ug/Kg	☼	07/07/18 10:30	07/09/18 12:03	1
PCB-1262	ND		18	13	ug/Kg	☼	07/07/18 10:30	07/09/18 12:03	1
PCB-1268	ND		18	8.7	ug/Kg	☼	07/07/18 10:30	07/09/18 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*07/07/18 10:30*	*07/09/18 12:03*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*07/07/18 10:30*	*07/09/18 12:03*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/07/18 10:30*	*07/09/18 12:03*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/07/18 10:30*	*07/09/18 12:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**92.5**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1228-SUB-2-4

Lab Sample ID: 180-79550-7

Date Collected: 07/06/18 08:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 88.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	07/07/18 10:30	07/09/18 12:41	1
PCB-1221	ND		19	12	ug/Kg	☼	07/07/18 10:30	07/09/18 12:41	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 12:41	1
PCB-1242	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 12:41	1
PCB-1248	ND		19	15	ug/Kg	☼	07/07/18 10:30	07/09/18 12:41	1
PCB-1254	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 12:41	1
PCB-1260	ND		19	5.4	ug/Kg	☼	07/07/18 10:30	07/09/18 12:41	1
PCB-1262	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 12:41	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/07/18 10:30	07/09/18 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/07/18 10:30*	*07/09/18 12:41*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/07/18 10:30*	*07/09/18 12:41*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/07/18 10:30*	*07/09/18 12:41*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*07/07/18 10:30*	*07/09/18 12:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.0**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**88.0**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1198-SUB-8-10

Lab Sample ID: 180-79550-8

Date Collected: 07/06/18 07:30
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 89.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	07/07/18 10:30	07/09/18 12:59	1
PCB-1221	ND		19	12	ug/Kg	☼	07/07/18 10:30	07/09/18 12:59	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 12:59	1
PCB-1242	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 12:59	1
PCB-1248	**170**		19	15	ug/Kg	☼	07/07/18 10:30	07/09/18 12:59	1
PCB-1254	**400**		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 12:59	1
PCB-1260	ND		19	5.3	ug/Kg	☼	07/07/18 10:30	07/09/18 12:59	1
PCB-1262	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 12:59	1
PCB-1268	ND		19	9.0	ug/Kg	☼	07/07/18 10:30	07/09/18 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*07/07/18 10:30*	*07/09/18 12:59*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*07/07/18 10:30*	*07/09/18 12:59*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/07/18 10:30*	*07/09/18 12:59*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/07/18 10:30*	*07/09/18 12:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**89.7**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1198-SUB-10-12

Lab Sample ID: 180-79550-9
Date Collected: 07/06/18 07:35
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 74.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22	7.3	ug/Kg	☼	07/07/18 10:30	07/09/18 13:18	1
PCB-1221	ND		22	14	ug/Kg	☼	07/07/18 10:30	07/09/18 13:18	1
PCB-1232	ND		22	13	ug/Kg	☼	07/07/18 10:30	07/09/18 13:18	1
PCB-1242	ND		22	13	ug/Kg	☼	07/07/18 10:30	07/09/18 13:18	1
PCB-1248	**2200**		22	18	ug/Kg	☼	07/07/18 10:30	07/09/18 13:18	1
PCB-1254	**910**		22	15	ug/Kg	☼	07/07/18 10:30	07/09/18 13:18	1
PCB-1260	ND		22	6.3	ug/Kg	☼	07/07/18 10:30	07/09/18 13:18	1
PCB-1262	ND		22	16	ug/Kg	☼	07/07/18 10:30	07/09/18 13:18	1
PCB-1268	ND		22	11	ug/Kg	☼	07/07/18 10:30	07/09/18 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*	*p*	*33 - 137*	*07/07/18 10:30*	*07/09/18 13:18*	*1*
DCB Decachlorobiphenyl (Surr)	*191*	*X*	*33 - 137*	*07/07/18 10:30*	*07/09/18 13:18*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/07/18 10:30*	*07/09/18 13:18*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/07/18 10:30*	*07/09/18 13:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.3**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**74.7**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1198-SUB-12-14

Lab Sample ID: 180-79550-10
Date Collected: 07/06/18 07:40
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 88.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/07/18 10:30	07/09/18 13:37	1
PCB-1221	ND		19	12	ug/Kg	☼	07/07/18 10:30	07/09/18 13:37	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 13:37	1
PCB-1242	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 13:37	1
PCB-1248	**48**		19	15	ug/Kg	☼	07/07/18 10:30	07/09/18 13:37	1
PCB-1254	**25**		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 13:37	1
PCB-1260	ND		19	5.3	ug/Kg	☼	07/07/18 10:30	07/09/18 13:37	1
PCB-1262	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 13:37	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/07/18 10:30	07/09/18 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/07/18 10:30*	*07/09/18 13:37*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*07/07/18 10:30*	*07/09/18 13:37*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/07/18 10:30*	*07/09/18 13:37*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/07/18 10:30*	*07/09/18 13:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**88.7**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1205-SUB-2-4

Lab Sample ID: 180-79550-11

Date Collected: 07/05/18 18:10
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 86.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	07/07/18 11:30	07/10/18 10:37	1
PCB-1221	ND		19	12	ug/Kg	☼	07/07/18 11:30	07/10/18 10:37	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 11:30	07/10/18 10:37	1
PCB-1242	ND		19	12	ug/Kg	☼	07/07/18 11:30	07/10/18 10:37	1
PCB-1248	ND		19	15	ug/Kg	☼	07/07/18 11:30	07/10/18 10:37	1
PCB-1254	ND		19	13	ug/Kg	☼	07/07/18 11:30	07/10/18 10:37	1
PCB-1260	ND		19	5.5	ug/Kg	☼	07/07/18 11:30	07/10/18 10:37	1
PCB-1262	ND		19	14	ug/Kg	☼	07/07/18 11:30	07/10/18 10:37	1
PCB-1268	ND		19	9.4	ug/Kg	☼	07/07/18 11:30	07/10/18 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*07/07/18 11:30*	*07/10/18 10:37*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*07/07/18 11:30*	*07/10/18 10:37*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*07/07/18 11:30*	*07/10/18 10:37*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/07/18 11:30*	*07/10/18 10:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.6**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**86.4**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1205-SUB-12-14

Lab Sample ID: 180-79550-12

Date Collected: 07/05/18 18:15
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 80.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.8	ug/Kg	☼	07/07/18 11:30	07/10/18 10:58	1
PCB-1221	ND		21	13	ug/Kg	☼	07/07/18 11:30	07/10/18 10:58	1
PCB-1232	ND		21	12	ug/Kg	☼	07/07/18 11:30	07/10/18 10:58	1
PCB-1242	ND		21	12	ug/Kg	☼	07/07/18 11:30	07/10/18 10:58	1
PCB-1248	ND		21	16	ug/Kg	☼	07/07/18 11:30	07/10/18 10:58	1
PCB-1254	ND		21	14	ug/Kg	☼	07/07/18 11:30	07/10/18 10:58	1
PCB-1260	ND		21	5.9	ug/Kg	☼	07/07/18 11:30	07/10/18 10:58	1
PCB-1262	ND		21	15	ug/Kg	☼	07/07/18 11:30	07/10/18 10:58	1
PCB-1268	ND		21	10	ug/Kg	☼	07/07/18 11:30	07/10/18 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*	*07/07/18 11:30*	*07/10/18 10:58*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*07/07/18 11:30*	*07/10/18 10:58*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/07/18 11:30*	*07/10/18 10:58*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/07/18 11:30*	*07/10/18 10:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.8**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**80.2**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1092-SUB-14-16

Lab Sample ID: 180-79550-13
Date Collected: 07/06/18 09:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 82.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	07/07/18 10:30	07/09/18 13:55	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 10:30	07/09/18 13:55	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 10:30	07/09/18 13:55	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 10:30	07/09/18 13:55	1
PCB-1248	ND		20	16	ug/Kg	☼	07/07/18 10:30	07/09/18 13:55	1
PCB-1254	**22**		20	13	ug/Kg	☼	07/07/18 10:30	07/09/18 13:55	1
PCB-1260	ND		20	5.6	ug/Kg	☼	07/07/18 10:30	07/09/18 13:55	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 10:30	07/09/18 13:55	1
PCB-1268	ND		20	9.6	ug/Kg	☼	07/07/18 10:30	07/09/18 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*07/07/18 10:30*	*07/09/18 13:55*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/07/18 10:30*	*07/09/18 13:55*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/07/18 10:30*	*07/09/18 13:55*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/07/18 10:30*	*07/09/18 13:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.1**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**82.9**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1092-SUB-14-16-DUP

Lab Sample ID: 180-79550-14
Date Collected: 07/06/18 09:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 88.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	07/07/18 10:30	07/09/18 14:14	1
PCB-1221	ND		19	12	ug/Kg	☼	07/07/18 10:30	07/09/18 14:14	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 14:14	1
PCB-1242	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 14:14	1
PCB-1248	**89**		19	15	ug/Kg	☼	07/07/18 10:30	07/09/18 14:14	1
PCB-1254	**94**		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 14:14	1
PCB-1260	ND		19	5.4	ug/Kg	☼	07/07/18 10:30	07/09/18 14:14	1
PCB-1262	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 14:14	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/07/18 10:30	07/09/18 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*07/07/18 10:30*	*07/09/18 14:14*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*07/07/18 10:30*	*07/09/18 14:14*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/07/18 10:30*	*07/09/18 14:14*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/07/18 10:30*	*07/09/18 14:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**88.1**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1093-SUB-14-16

Lab Sample ID: 180-79550-15
Date Collected: 07/06/18 09:15
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 82.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	07/07/18 11:30	07/10/18 12:24	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 11:30	07/10/18 12:24	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 11:30	07/10/18 12:24	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 11:30	07/10/18 12:24	1
PCB-1248	**96**		20	16	ug/Kg	☼	07/07/18 11:30	07/10/18 12:24	1
PCB-1254	**58**		20	14	ug/Kg	☼	07/07/18 11:30	07/10/18 12:24	1
PCB-1260	**19**	**J**	20	5.8	ug/Kg	☼	07/07/18 11:30	07/10/18 12:24	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 11:30	07/10/18 12:24	1
PCB-1268	ND		20	9.8	ug/Kg	☼	07/07/18 11:30	07/10/18 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*07/07/18 11:30*	*07/10/18 12:24*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*33 - 137*	*07/07/18 11:30*	*07/10/18 12:24*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/07/18 11:30*	*07/10/18 12:24*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/07/18 11:30*	*07/10/18 12:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.7**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**82.3**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1093-SUB-14-16-DUP

Lab Sample ID: 180-79550-16
Date Collected: 07/06/18 09:15
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 79.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.8	ug/Kg	☼	07/07/18 11:30	07/10/18 12:46	1
PCB-1221	ND		21	14	ug/Kg	☼	07/07/18 11:30	07/10/18 12:46	1
PCB-1232	ND		21	12	ug/Kg	☼	07/07/18 11:30	07/10/18 12:46	1
PCB-1242	ND		21	13	ug/Kg	☼	07/07/18 11:30	07/10/18 12:46	1
PCB-1248	ND		21	17	ug/Kg	☼	07/07/18 11:30	07/10/18 12:46	1
PCB-1254	**49**		21	14	ug/Kg	☼	07/07/18 11:30	07/10/18 12:46	1
PCB-1260	**26**		21	5.9	ug/Kg	☼	07/07/18 11:30	07/10/18 12:46	1
PCB-1262	ND		21	15	ug/Kg	☼	07/07/18 11:30	07/10/18 12:46	1
PCB-1268	ND		21	10	ug/Kg	☼	07/07/18 11:30	07/10/18 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*07/07/18 11:30*	*07/10/18 12:46*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*33 - 137*	*07/07/18 11:30*	*07/10/18 12:46*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*44 - 114*	*07/07/18 11:30*	*07/10/18 12:46*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*	*07/07/18 11:30*	*07/10/18 12:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.7**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**79.3**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1094-SUB-14-16

Lab Sample ID: 180-79550-17

Date Collected: 07/06/18 09:10
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 87.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	07/07/18 10:30	07/09/18 14:33	1
PCB-1221	ND		19	12	ug/Kg	☼	07/07/18 10:30	07/09/18 14:33	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 14:33	1
PCB-1242	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 14:33	1
PCB-1248	**37**		19	15	ug/Kg	☼	07/07/18 10:30	07/09/18 14:33	1
PCB-1254	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 14:33	1
PCB-1260	ND		19	5.4	ug/Kg	☼	07/07/18 10:30	07/09/18 14:33	1
PCB-1262	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 14:33	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/07/18 10:30	07/09/18 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*07/07/18 10:30*	*07/09/18 14:33*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/07/18 10:30*	*07/09/18 14:33*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/07/18 10:30*	*07/09/18 14:33*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/07/18 10:30*	*07/09/18 14:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**87.9**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1081-SUB-6-8

Lab Sample ID: 180-79550-18

Date Collected: 07/06/18 10:30
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 83.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	07/07/18 10:30	07/09/18 16:25	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 10:30	07/09/18 16:25	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 10:30	07/09/18 16:25	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 10:30	07/09/18 16:25	1
PCB-1248	ND		20	16	ug/Kg	☼	07/07/18 10:30	07/09/18 16:25	1
PCB-1254	ND		20	14	ug/Kg	☼	07/07/18 10:30	07/09/18 16:25	1
PCB-1260	ND		20	5.7	ug/Kg	☼	07/07/18 10:30	07/09/18 16:25	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 10:30	07/09/18 16:25	1
PCB-1268	ND		20	9.7	ug/Kg	☼	07/07/18 10:30	07/09/18 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*07/07/18 10:30*	*07/09/18 16:25*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*07/07/18 10:30*	*07/09/18 16:25*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/07/18 10:30*	*07/09/18 16:25*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/07/18 10:30*	*07/09/18 16:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.8**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**83.2**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1122-SUB-10-12

Lab Sample ID: 180-79550-19

Date Collected: 07/06/18 11:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 88.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/07/18 10:30	07/09/18 16:44	1
PCB-1221	ND		19	12	ug/Kg	☼	07/07/18 10:30	07/09/18 16:44	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 16:44	1
PCB-1242	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 16:44	1
PCB-1248	ND		19	15	ug/Kg	☼	07/07/18 10:30	07/09/18 16:44	1
PCB-1254	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 16:44	1
PCB-1260	ND		19	5.3	ug/Kg	☼	07/07/18 10:30	07/09/18 16:44	1
PCB-1262	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 16:44	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/07/18 10:30	07/09/18 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*07/07/18 10:30*	*07/09/18 16:44*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*07/07/18 10:30*	*07/09/18 16:44*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/07/18 10:30*	*07/09/18 16:44*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/07/18 10:30*	*07/09/18 16:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.8**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**88.2**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1076-SUB-4-6

Lab Sample ID: 180-79550-20

Date Collected: 07/06/18 13:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 92.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.8	ug/Kg	☼	07/07/18 11:30	07/10/18 13:07	1
PCB-1221	ND		18	12	ug/Kg	☼	07/07/18 11:30	07/10/18 13:07	1
PCB-1232	ND		18	11	ug/Kg	☼	07/07/18 11:30	07/10/18 13:07	1
PCB-1242	ND		18	11	ug/Kg	☼	07/07/18 11:30	07/10/18 13:07	1
PCB-1248	ND		18	14	ug/Kg	☼	07/07/18 11:30	07/10/18 13:07	1
PCB-1254	ND		18	12	ug/Kg	☼	07/07/18 11:30	07/10/18 13:07	1
PCB-1260	ND		18	5.1	ug/Kg	☼	07/07/18 11:30	07/10/18 13:07	1
PCB-1262	ND		18	13	ug/Kg	☼	07/07/18 11:30	07/10/18 13:07	1
PCB-1268	ND		18	8.7	ug/Kg	☼	07/07/18 11:30	07/10/18 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/07/18 11:30*	*07/10/18 13:07*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*07/07/18 11:30*	*07/10/18 13:07*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*	*07/07/18 11:30*	*07/10/18 13:07*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*07/07/18 11:30*	*07/10/18 13:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1	0.1	%			07/09/18 08:05	1
Percent Solids	**92.7**		0.1	0.1	%			07/09/18 08:05	1

Client Sample ID: SSHS-B1076-SUB-4-6-DUP

Lab Sample ID: 180-79550-21

Date Collected: 07/06/18 13:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 92.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/07/18 11:30	07/10/18 14:11	1
PCB-1221	ND		18	12	ug/Kg	☼	07/07/18 11:30	07/10/18 14:11	1
PCB-1232	ND		18	11	ug/Kg	☼	07/07/18 11:30	07/10/18 14:11	1
PCB-1242	ND		18	11	ug/Kg	☼	07/07/18 11:30	07/10/18 14:11	1
PCB-1248	ND		18	14	ug/Kg	☼	07/07/18 11:30	07/10/18 14:11	1
PCB-1254	ND		18	12	ug/Kg	☼	07/07/18 11:30	07/10/18 14:11	1
PCB-1260	ND		18	5.1	ug/Kg	☼	07/07/18 11:30	07/10/18 14:11	1
PCB-1262	ND		18	13	ug/Kg	☼	07/07/18 11:30	07/10/18 14:11	1
PCB-1268	ND		18	8.7	ug/Kg	☼	07/07/18 11:30	07/10/18 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*07/07/18 11:30*	*07/10/18 14:11*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/07/18 11:30*	*07/10/18 14:11*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*07/07/18 11:30*	*07/10/18 14:11*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/07/18 11:30*	*07/10/18 14:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			07/09/18 08:27	1
Percent Solids	**92.0**		0.1	0.1	%			07/09/18 08:27	1

Client Sample ID: SSHS-B1158-SUB-8-10

Lab Sample ID: 180-79550-22

Date Collected: 07/06/18 14:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 85.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	07/07/18 11:30	07/10/18 14:33	1
PCB-1221	ND		19	13	ug/Kg	☼	07/07/18 11:30	07/10/18 14:33	1
PCB-1232	ND		19	12	ug/Kg	☼	07/07/18 11:30	07/10/18 14:33	1
PCB-1242	ND		19	12	ug/Kg	☼	07/07/18 11:30	07/10/18 14:33	1
PCB-1248	ND		19	15	ug/Kg	☼	07/07/18 11:30	07/10/18 14:33	1
PCB-1254	ND		19	13	ug/Kg	☼	07/07/18 11:30	07/10/18 14:33	1
PCB-1260	ND		19	5.5	ug/Kg	☼	07/07/18 11:30	07/10/18 14:33	1
PCB-1262	ND		19	14	ug/Kg	☼	07/07/18 11:30	07/10/18 14:33	1
PCB-1268	ND		19	9.4	ug/Kg	☼	07/07/18 11:30	07/10/18 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*07/07/18 11:30*	*07/10/18 14:33*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/07/18 11:30*	*07/10/18 14:33*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*07/07/18 11:30*	*07/10/18 14:33*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*07/07/18 11:30*	*07/10/18 14:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		0.1	0.1	%			07/09/18 08:27	1
Percent Solids	**85.8**		0.1	0.1	%			07/09/18 08:27	1

Client Sample ID: SSHS-B1193-SUB-4-6

Lab Sample ID: 180-79550-23

Date Collected: 07/06/18 14:20
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 84.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	07/07/18 11:30	07/10/18 14:55	1
PCB-1221	ND		20	13	ug/Kg	☼	07/07/18 11:30	07/10/18 14:55	1
PCB-1232	ND		20	12	ug/Kg	☼	07/07/18 11:30	07/10/18 14:55	1
PCB-1242	ND		20	12	ug/Kg	☼	07/07/18 11:30	07/10/18 14:55	1
PCB-1248	**73**		20	16	ug/Kg	☼	07/07/18 11:30	07/10/18 14:55	1
PCB-1254	**30**		20	13	ug/Kg	☼	07/07/18 11:30	07/10/18 14:55	1
PCB-1260	ND		20	5.6	ug/Kg	☼	07/07/18 11:30	07/10/18 14:55	1
PCB-1262	ND		20	14	ug/Kg	☼	07/07/18 11:30	07/10/18 14:55	1
PCB-1268	ND		20	9.6	ug/Kg	☼	07/07/18 11:30	07/10/18 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/07/18 11:30*	*07/10/18 14:55*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*07/07/18 11:30*	*07/10/18 14:55*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*07/07/18 11:30*	*07/10/18 14:55*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*07/07/18 11:30*	*07/10/18 14:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.4**		0.1	0.1	%			07/09/18 08:27	1
Percent Solids	**84.6**		0.1	0.1	%			07/09/18 08:27	1

Client Sample ID: SSHS-B1086-SUB-10-12

Lab Sample ID: 180-79550-24

Date Collected: 07/06/18 14:40
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 87.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	07/07/18 11:30	07/10/18 15:17	1
PCB-1221	ND		19	12	ug/Kg	☼	07/07/18 11:30	07/10/18 15:17	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 11:30	07/10/18 15:17	1
PCB-1242	ND		19	11	ug/Kg	☼	07/07/18 11:30	07/10/18 15:17	1
PCB-1248	**480**		19	15	ug/Kg	☼	07/07/18 11:30	07/10/18 15:17	1
PCB-1254	**370**		19	13	ug/Kg	☼	07/07/18 11:30	07/10/18 15:17	1
PCB-1260	**73**		19	5.5	ug/Kg	☼	07/07/18 11:30	07/10/18 15:17	1
PCB-1262	ND		19	13	ug/Kg	☼	07/07/18 11:30	07/10/18 15:17	1
PCB-1268	ND		19	9.3	ug/Kg	☼	07/07/18 11:30	07/10/18 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/07/18 11:30*	*07/10/18 15:17*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*	*07/07/18 11:30*	*07/10/18 15:17*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*07/07/18 11:30*	*07/10/18 15:17*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*07/07/18 11:30*	*07/10/18 15:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.0**		0.1	0.1	%			07/09/18 08:27	1
Percent Solids	**87.0**		0.1	0.1	%			07/09/18 08:27	1

Client Sample ID: SSHS-B1247-SUB-10-12

Lab Sample ID: 180-79550-25

Date Collected: 07/06/18 16:20
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 86.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	07/07/18 10:30	07/09/18 17:03	1
PCB-1221	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 17:03	1
PCB-1232	ND		19	11	ug/Kg	☼	07/07/18 10:30	07/09/18 17:03	1
PCB-1242	ND		19	12	ug/Kg	☼	07/07/18 10:30	07/09/18 17:03	1
PCB-1248	**4000**		19	15	ug/Kg	☼	07/07/18 10:30	07/09/18 17:03	1
PCB-1254	ND		19	13	ug/Kg	☼	07/07/18 10:30	07/09/18 17:03	1
PCB-1260	ND		19	5.5	ug/Kg	☼	07/07/18 10:30	07/09/18 17:03	1
PCB-1262	ND		19	14	ug/Kg	☼	07/07/18 10:30	07/09/18 17:03	1
PCB-1268	ND		19	9.4	ug/Kg	☼	07/07/18 10:30	07/09/18 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/07/18 10:30*	*07/09/18 17:03*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*	*07/07/18 10:30*	*07/09/18 17:03*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*	*07/07/18 10:30*	*07/09/18 17:03*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/07/18 10:30*	*07/09/18 17:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.0**		0.1	0.1	%			07/09/18 08:27	1
Percent Solids	**86.0**		0.1	0.1	%			07/09/18 08:27	1

Client Sample ID: SSHS-B1203-SUB-4-6

Lab Sample ID: 180-79550-26

Date Collected: 07/06/18 17:00
Matrix: Solid
Date Received: 07/07/18 09:30
Percent Solids: 78.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	07/07/18 10:30	07/09/18 17:22	1
PCB-1221	ND		21	14	ug/Kg	☼	07/07/18 10:30	07/09/18 17:22	1
PCB-1232	ND		21	13	ug/Kg	☼	07/07/18 10:30	07/09/18 17:22	1
PCB-1242	ND		21	13	ug/Kg	☼	07/07/18 10:30	07/09/18 17:22	1
PCB-1248	ND		21	17	ug/Kg	☼	07/07/18 10:30	07/09/18 17:22	1
PCB-1254	ND		21	15	ug/Kg	☼	07/07/18 10:30	07/09/18 17:22	1
PCB-1260	ND		21	6.0	ug/Kg	☼	07/07/18 10:30	07/09/18 17:22	1
PCB-1262	ND		21	15	ug/Kg	☼	07/07/18 10:30	07/09/18 17:22	1
PCB-1268	ND		21	10	ug/Kg	☼	07/07/18 10:30	07/09/18 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*07/07/18 10:30*	*07/09/18 17:22*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*07/07/18 10:30*	*07/09/18 17:22*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/07/18 10:30*	*07/09/18 17:22*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/07/18 10:30*	*07/09/18 17:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.6**		0.1	0.1	%			07/09/18 08:27	1
Percent Solids	**78.4**		0.1	0.1	%			07/09/18 08:27	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-249834/1-C
Matrix: Solid
Analysis Batch: 249863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/07/18 10:30	07/09/18 11:44	1
PCB-1221	ND		17	11	ug/Kg		07/07/18 10:30	07/09/18 11:44	1
PCB-1232	ND		17	9.9	ug/Kg		07/07/18 10:30	07/09/18 11:44	1
PCB-1242	ND		17	10	ug/Kg		07/07/18 10:30	07/09/18 11:44	1
PCB-1248	ND		17	13	ug/Kg		07/07/18 10:30	07/09/18 11:44	1
PCB-1254	ND		17	11	ug/Kg		07/07/18 10:30	07/09/18 11:44	1
PCB-1260	ND		17	4.7	ug/Kg		07/07/18 10:30	07/09/18 11:44	1
PCB-1262	ND		17	12	ug/Kg		07/07/18 10:30	07/09/18 11:44	1
PCB-1268	ND		17	8.1	ug/Kg		07/07/18 10:30	07/09/18 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*33 - 137*	*07/07/18 10:30*	*07/09/18 11:44*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*07/07/18 10:30*	*07/09/18 11:44*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*07/07/18 10:30*	*07/09/18 11:44*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*44 - 114*	*07/07/18 10:30*	*07/09/18 11:44*	*1*

Lab Sample ID: LCS 180-249834/2-C
Matrix: Solid
Analysis Batch: 249863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1160		ug/Kg		87	46 - 122		
PCB-1260			1330	1230		ug/Kg		93	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*

Lab Sample ID: 180-79550-17 MS
Matrix: Solid
Analysis Batch: 249863

Client Sample ID: SSHS-B1094-SUB-14-16
Prep Type: Total/NA
Prep Batch: 249834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1520	1380		ug/Kg	☼	91	46 - 122		
PCB-1260	ND		1520	1450		ug/Kg	☼	95	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-79550-17 MSD
Matrix: Solid
Analysis Batch: 249863

Client Sample ID: SSHS-B1094-SUB-14-16
Prep Type: Total/NA
Prep Batch: 249834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1520	1360		ug/Kg	☼	89	46 - 122	1	23
PCB-1260	ND		1520	1390		ug/Kg	☼	92	51 - 119	4	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*

Lab Sample ID: MB 180-249835/1-C
Matrix: Solid
Analysis Batch: 250024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/07/18 11:30	07/10/18 09:31	1
PCB-1221	ND		17	11	ug/Kg		07/07/18 11:30	07/10/18 09:31	1
PCB-1232	ND		17	9.9	ug/Kg		07/07/18 11:30	07/10/18 09:31	1
PCB-1242	ND		17	10	ug/Kg		07/07/18 11:30	07/10/18 09:31	1
PCB-1248	ND		17	13	ug/Kg		07/07/18 11:30	07/10/18 09:31	1
PCB-1254	ND		17	11	ug/Kg		07/07/18 11:30	07/10/18 09:31	1
PCB-1260	ND		17	4.7	ug/Kg		07/07/18 11:30	07/10/18 09:31	1
PCB-1262	ND		17	12	ug/Kg		07/07/18 11:30	07/10/18 09:31	1
PCB-1268	ND		17	8.1	ug/Kg		07/07/18 11:30	07/10/18 09:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*	*07/07/18 11:30*	*07/10/18 09:31*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*33 - 137*	*07/07/18 11:30*	*07/10/18 09:31*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*	*07/07/18 11:30*	*07/10/18 09:31*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*44 - 114*	*07/07/18 11:30*	*07/10/18 09:31*	*1*

Lab Sample ID: LCS 180-249835/2-C
Matrix: Solid
Analysis Batch: 250024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249835

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1160		ug/Kg		87	46 - 122		
PCB-1260			1330	1170		ug/Kg		88	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-79550-20 MS — **Client Sample ID: SSHS-B1076-SUB-4-6**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 250024 — **Prep Batch: 249835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1440	1200		ug/Kg	☼	83	46 - 122
PCB-1260	ND		1440	1150		ug/Kg	☼	80	51 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*

Lab Sample ID: 180-79550-20 MSD — **Client Sample ID: SSHS-B1076-SUB-4-6**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 250024 — **Prep Batch: 249835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1440	1150		ug/Kg	☼	80	46 - 122	4	23
PCB-1260	ND		1440	1210		ug/Kg	☼	84	51 - 119	5	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*

Method: 2540G - SM 2540G

Lab Sample ID: 180-79550-1 DU — **Client Sample ID: SSHS-B1249-SUB-10-12**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 249892

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.3		9.1		%		2	20
Percent Solids	90.7		90.9		%		0.2	20

Lab Sample ID: 180-79550-20 DU — **Client Sample ID: SSHS-B1076-SUB-4-6**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 249892

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	7.3		7.2		%		2	20
Percent Solids	92.7		92.8		%		0.2	20

Lab Sample ID: 180-79550-26 DU — **Client Sample ID: SSHS-B1203-SUB-4-6**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 249898

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	21.6		18.9		%		13	20
Percent Solids	78.4		81.1		%		3	20

GC Semi VOA

Prep Batch: 249834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-5	SSHS-B1091-SUB-14-16	Total/NA	Solid	3541	
180-79550-6	SSHS-B1162-SUB-8-10	Total/NA	Solid	3541	
180-79550-7	SSHS-B1228-SUB-2-4	Total/NA	Solid	3541	
180-79550-8	SSHS-B1198-SUB-8-10	Total/NA	Solid	3541	
180-79550-9	SSHS-B1198-SUB-10-12	Total/NA	Solid	3541	
180-79550-10	SSHS-B1198-SUB-12-14	Total/NA	Solid	3541	
180-79550-13	SSHS-B1092-SUB-14-16	Total/NA	Solid	3541	
180-79550-14	SSHS-B1092-SUB-14-16-DUP	Total/NA	Solid	3541	
180-79550-17	SSHS-B1094-SUB-14-16	Total/NA	Solid	3541	
180-79550-18	SSHS-B1081-SUB-6-8	Total/NA	Solid	3541	
180-79550-19	SSHS-B1122-SUB-10-12	Total/NA	Solid	3541	
180-79550-25	SSHS-B1247-SUB-10-12	Total/NA	Solid	3541	
180-79550-26	SSHS-B1203-SUB-4-6	Total/NA	Solid	3541	
MB 180-249834/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-249834/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-79550-17 MS	SSHS-B1094-SUB-14-16	Total/NA	Solid	3541	
180-79550-17 MSD	SSHS-B1094-SUB-14-16	Total/NA	Solid	3541	

Prep Batch: 249835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-1	SSHS-B1249-SUB-10-12	Total/NA	Solid	3541	
180-79550-2	SSHS-B1249-SUB-10-12-DUP	Total/NA	Solid	3541	
180-79550-3	SSHS-B1104-SUB-12-14	Total/NA	Solid	3541	
180-79550-4	SSHS-B1104-SUB-4-6	Total/NA	Solid	3541	
180-79550-11	SSHS-B1205-SUB-2-4	Total/NA	Solid	3541	
180-79550-12	SSHS-B1205-SUB-12-14	Total/NA	Solid	3541	
180-79550-15	SSHS-B1093-SUB-14-16	Total/NA	Solid	3541	
180-79550-16	SSHS-B1093-SUB-14-16-DUP	Total/NA	Solid	3541	
180-79550-20	SSHS-B1076-SUB-4-6	Total/NA	Solid	3541	
180-79550-21	SSHS-B1076-SUB-4-6-DUP	Total/NA	Solid	3541	
180-79550-22	SSHS-B1158-SUB-8-10	Total/NA	Solid	3541	
180-79550-23	SSHS-B1193-SUB-4-6	Total/NA	Solid	3541	
180-79550-24	SSHS-B1086-SUB-10-12	Total/NA	Solid	3541	
MB 180-249835/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-249835/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-79550-20 MS	SSHS-B1076-SUB-4-6	Total/NA	Solid	3541	
180-79550-20 MSD	SSHS-B1076-SUB-4-6	Total/NA	Solid	3541	

Analysis Batch: 249863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-5	SSHS-B1091-SUB-14-16	Total/NA	Solid	EPA 8082A	249869
180-79550-6	SSHS-B1162-SUB-8-10	Total/NA	Solid	EPA 8082A	249869
180-79550-7	SSHS-B1228-SUB-2-4	Total/NA	Solid	EPA 8082A	249869
180-79550-8	SSHS-B1198-SUB-8-10	Total/NA	Solid	EPA 8082A	249869
180-79550-9	SSHS-B1198-SUB-10-12	Total/NA	Solid	EPA 8082A	249869
180-79550-10	SSHS-B1198-SUB-12-14	Total/NA	Solid	EPA 8082A	249869
180-79550-13	SSHS-B1092-SUB-14-16	Total/NA	Solid	EPA 8082A	249869
180-79550-14	SSHS-B1092-SUB-14-16-DUP	Total/NA	Solid	EPA 8082A	249869
180-79550-17	SSHS-B1094-SUB-14-16	Total/NA	Solid	EPA 8082A	249869
180-79550-18	SSHS-B1081-SUB-6-8	Total/NA	Solid	EPA 8082A	249869
180-79550-19	SSHS-B1122-SUB-10-12	Total/NA	Solid	EPA 8082A	249869

GC Semi VOA (Continued)

Analysis Batch: 249863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-25	SSHS-B1247-SUB-10-12	Total/NA	Solid	EPA 8082A	249869
180-79550-26	SSHS-B1203-SUB-4-6	Total/NA	Solid	EPA 8082A	249869
MB 180-249834/1-C	Method Blank	Total/NA	Solid	EPA 8082A	249869
LCS 180-249834/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	249869
180-79550-17 MS	SSHS-B1094-SUB-14-16	Total/NA	Solid	EPA 8082A	249869
180-79550-17 MSD	SSHS-B1094-SUB-14-16	Total/NA	Solid	EPA 8082A	249869

Cleanup Batch: 249866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-1	SSHS-B1249-SUB-10-12	Total/NA	Solid	3665A	249835
180-79550-2	SSHS-B1249-SUB-10-12-DUP	Total/NA	Solid	3665A	249835
180-79550-3	SSHS-B1104-SUB-12-14	Total/NA	Solid	3665A	249835
180-79550-4	SSHS-B1104-SUB-4-6	Total/NA	Solid	3665A	249835
180-79550-11	SSHS-B1205-SUB-2-4	Total/NA	Solid	3665A	249835
180-79550-12	SSHS-B1205-SUB-12-14	Total/NA	Solid	3665A	249835
180-79550-15	SSHS-B1093-SUB-14-16	Total/NA	Solid	3665A	249835
180-79550-16	SSHS-B1093-SUB-14-16-DUP	Total/NA	Solid	3665A	249835
180-79550-20	SSHS-B1076-SUB-4-6	Total/NA	Solid	3665A	249835
180-79550-21	SSHS-B1076-SUB-4-6-DUP	Total/NA	Solid	3665A	249835
180-79550-22	SSHS-B1158-SUB-8-10	Total/NA	Solid	3665A	249835
180-79550-23	SSHS-B1193-SUB-4-6	Total/NA	Solid	3665A	249835
180-79550-24	SSHS-B1086-SUB-10-12	Total/NA	Solid	3665A	249835
MB 180-249835/1-C	Method Blank	Total/NA	Solid	3665A	249835
LCS 180-249835/2-C	Lab Control Sample	Total/NA	Solid	3665A	249835
180-79550-20 MS	SSHS-B1076-SUB-4-6	Total/NA	Solid	3665A	249835
180-79550-20 MSD	SSHS-B1076-SUB-4-6	Total/NA	Solid	3665A	249835

Cleanup Batch: 249867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-1	SSHS-B1249-SUB-10-12	Total/NA	Solid	3660B	249866
180-79550-2	SSHS-B1249-SUB-10-12-DUP	Total/NA	Solid	3660B	249866
180-79550-3	SSHS-B1104-SUB-12-14	Total/NA	Solid	3660B	249866
180-79550-4	SSHS-B1104-SUB-4-6	Total/NA	Solid	3660B	249866
180-79550-11	SSHS-B1205-SUB-2-4	Total/NA	Solid	3660B	249866
180-79550-12	SSHS-B1205-SUB-12-14	Total/NA	Solid	3660B	249866
180-79550-15	SSHS-B1093-SUB-14-16	Total/NA	Solid	3660B	249866
180-79550-16	SSHS-B1093-SUB-14-16-DUP	Total/NA	Solid	3660B	249866
180-79550-20	SSHS-B1076-SUB-4-6	Total/NA	Solid	3660B	249866
180-79550-21	SSHS-B1076-SUB-4-6-DUP	Total/NA	Solid	3660B	249866
180-79550-22	SSHS-B1158-SUB-8-10	Total/NA	Solid	3660B	249866
180-79550-23	SSHS-B1193-SUB-4-6	Total/NA	Solid	3660B	249866
180-79550-24	SSHS-B1086-SUB-10-12	Total/NA	Solid	3660B	249866
MB 180-249835/1-C	Method Blank	Total/NA	Solid	3660B	249866
LCS 180-249835/2-C	Lab Control Sample	Total/NA	Solid	3660B	249866
180-79550-20 MS	SSHS-B1076-SUB-4-6	Total/NA	Solid	3660B	249866
180-79550-20 MSD	SSHS-B1076-SUB-4-6	Total/NA	Solid	3660B	249866

Cleanup Batch: 249868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-5	SSHS-B1091-SUB-14-16	Total/NA	Solid	3665A	249834
180-79550-6	SSHS-B1162-SUB-8-10	Total/NA	Solid	3665A	249834

GC Semi VOA (Continued)

Cleanup Batch: 249868 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-7	SSHS-B1228-SUB-2-4	Total/NA	Solid	3665A	249834
180-79550-8	SSHS-B1198-SUB-8-10	Total/NA	Solid	3665A	249834
180-79550-9	SSHS-B1198-SUB-10-12	Total/NA	Solid	3665A	249834
180-79550-10	SSHS-B1198-SUB-12-14	Total/NA	Solid	3665A	249834
180-79550-13	SSHS-B1092-SUB-14-16	Total/NA	Solid	3665A	249834
180-79550-14	SSHS-B1092-SUB-14-16-DUP	Total/NA	Solid	3665A	249834
180-79550-17	SSHS-B1094-SUB-14-16	Total/NA	Solid	3665A	249834
180-79550-18	SSHS-B1081-SUB-6-8	Total/NA	Solid	3665A	249834
180-79550-19	SSHS-B1122-SUB-10-12	Total/NA	Solid	3665A	249834
180-79550-25	SSHS-B1247-SUB-10-12	Total/NA	Solid	3665A	249834
180-79550-26	SSHS-B1203-SUB-4-6	Total/NA	Solid	3665A	249834
MB 180-249834/1-C	Method Blank	Total/NA	Solid	3665A	249834
LCS 180-249834/2-C	Lab Control Sample	Total/NA	Solid	3665A	249834
180-79550-17 MS	SSHS-B1094-SUB-14-16	Total/NA	Solid	3665A	249834
180-79550-17 MSD	SSHS-B1094-SUB-14-16	Total/NA	Solid	3665A	249834

Cleanup Batch: 249869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-5	SSHS-B1091-SUB-14-16	Total/NA	Solid	3660B	249868
180-79550-6	SSHS-B1162-SUB-8-10	Total/NA	Solid	3660B	249868
180-79550-7	SSHS-B1228-SUB-2-4	Total/NA	Solid	3660B	249868
180-79550-8	SSHS-B1198-SUB-8-10	Total/NA	Solid	3660B	249868
180-79550-9	SSHS-B1198-SUB-10-12	Total/NA	Solid	3660B	249868
180-79550-10	SSHS-B1198-SUB-12-14	Total/NA	Solid	3660B	249868
180-79550-13	SSHS-B1092-SUB-14-16	Total/NA	Solid	3660B	249868
180-79550-14	SSHS-B1092-SUB-14-16-DUP	Total/NA	Solid	3660B	249868
180-79550-17	SSHS-B1094-SUB-14-16	Total/NA	Solid	3660B	249868
180-79550-18	SSHS-B1081-SUB-6-8	Total/NA	Solid	3660B	249868
180-79550-19	SSHS-B1122-SUB-10-12	Total/NA	Solid	3660B	249868
180-79550-25	SSHS-B1247-SUB-10-12	Total/NA	Solid	3660B	249868
180-79550-26	SSHS-B1203-SUB-4-6	Total/NA	Solid	3660B	249868
MB 180-249834/1-C	Method Blank	Total/NA	Solid	3660B	249868
LCS 180-249834/2-C	Lab Control Sample	Total/NA	Solid	3660B	249868
180-79550-17 MS	SSHS-B1094-SUB-14-16	Total/NA	Solid	3660B	249868
180-79550-17 MSD	SSHS-B1094-SUB-14-16	Total/NA	Solid	3660B	249868

Analysis Batch: 250024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-1	SSHS-B1249-SUB-10-12	Total/NA	Solid	EPA 8082A	249867
180-79550-2	SSHS-B1249-SUB-10-12-DUP	Total/NA	Solid	EPA 8082A	249867
180-79550-3	SSHS-B1104-SUB-12-14	Total/NA	Solid	EPA 8082A	249867
180-79550-4	SSHS-B1104-SUB-4-6	Total/NA	Solid	EPA 8082A	249867
180-79550-11	SSHS-B1205-SUB-2-4	Total/NA	Solid	EPA 8082A	249867
180-79550-12	SSHS-B1205-SUB-12-14	Total/NA	Solid	EPA 8082A	249867
180-79550-15	SSHS-B1093-SUB-14-16	Total/NA	Solid	EPA 8082A	249867
180-79550-16	SSHS-B1093-SUB-14-16-DUP	Total/NA	Solid	EPA 8082A	249867
180-79550-20	SSHS-B1076-SUB-4-6	Total/NA	Solid	EPA 8082A	249867
180-79550-21	SSHS-B1076-SUB-4-6-DUP	Total/NA	Solid	EPA 8082A	249867
180-79550-22	SSHS-B1158-SUB-8-10	Total/NA	Solid	EPA 8082A	249867
180-79550-23	SSHS-B1193-SUB-4-6	Total/NA	Solid	EPA 8082A	249867
180-79550-24	SSHS-B1086-SUB-10-12	Total/NA	Solid	EPA 8082A	249867

GC Semi VOA (Continued)

Analysis Batch: 250024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-249835/1-C	Method Blank	Total/NA	Solid	EPA 8082A	249867
LCS 180-249835/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	249867
180-79550-20 MS	SSHS-B1076-SUB-4-6	Total/NA	Solid	EPA 8082A	249867
180-79550-20 MSD	SSHS-B1076-SUB-4-6	Total/NA	Solid	EPA 8082A	249867

General Chemistry

Analysis Batch: 249892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-1	SSHS-B1249-SUB-10-12	Total/NA	Solid	2540G	
180-79550-2	SSHS-B1249-SUB-10-12-DUP	Total/NA	Solid	2540G	
180-79550-3	SSHS-B1104-SUB-12-14	Total/NA	Solid	2540G	
180-79550-4	SSHS-B1104-SUB-4-6	Total/NA	Solid	2540G	
180-79550-5	SSHS-B1091-SUB-14-16	Total/NA	Solid	2540G	
180-79550-6	SSHS-B1162-SUB-8-10	Total/NA	Solid	2540G	
180-79550-7	SSHS-B1228-SUB-2-4	Total/NA	Solid	2540G	
180-79550-8	SSHS-B1198-SUB-8-10	Total/NA	Solid	2540G	
180-79550-9	SSHS-B1198-SUB-10-12	Total/NA	Solid	2540G	
180-79550-10	SSHS-B1198-SUB-12-14	Total/NA	Solid	2540G	
180-79550-11	SSHS-B1205-SUB-2-4	Total/NA	Solid	2540G	
180-79550-12	SSHS-B1205-SUB-12-14	Total/NA	Solid	2540G	
180-79550-13	SSHS-B1092-SUB-14-16	Total/NA	Solid	2540G	
180-79550-14	SSHS-B1092-SUB-14-16-DUP	Total/NA	Solid	2540G	
180-79550-15	SSHS-B1093-SUB-14-16	Total/NA	Solid	2540G	
180-79550-16	SSHS-B1093-SUB-14-16-DUP	Total/NA	Solid	2540G	
180-79550-17	SSHS-B1094-SUB-14-16	Total/NA	Solid	2540G	
180-79550-18	SSHS-B1081-SUB-6-8	Total/NA	Solid	2540G	
180-79550-19	SSHS-B1122-SUB-10-12	Total/NA	Solid	2540G	
180-79550-20	SSHS-B1076-SUB-4-6	Total/NA	Solid	2540G	
180-79550-1 DU	SSHS-B1249-SUB-10-12	Total/NA	Solid	2540G	
180-79550-20 DU	SSHS-B1076-SUB-4-6	Total/NA	Solid	2540G	

Analysis Batch: 249898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79550-21	SSHS-B1076-SUB-4-6-DUP	Total/NA	Solid	2540G	
180-79550-22	SSHS-B1158-SUB-8-10	Total/NA	Solid	2540G	
180-79550-23	SSHS-B1193-SUB-4-6	Total/NA	Solid	2540G	
180-79550-24	SSHS-B1086-SUB-10-12	Total/NA	Solid	2540G	
180-79550-25	SSHS-B1247-SUB-10-12	Total/NA	Solid	2540G	
180-79550-26	SSHS-B1203-SUB-4-6	Total/NA	Solid	2540G	
180-79550-26 DU	SSHS-B1203-SUB-4-6	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matthew Schallinger, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 1 of
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:			
City: Columbia	TAT Requested (days): 1 Day turnaround.			
State, Zip: MD 21044				
Phone:	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:			
Site: Former Sperry Remington Site - North	SSOW#:			

Analysis Requested

Note: 2nd cooler received 10:30
* samples received in this cooler DAD 7/9/18

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

format for all samples is SSHS-(B)xxxx-(SUB)-xx-xx as per Jim Bannon fine DAD 2/9/18

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A, PCBs	Total Number of containers	Spec
			Preservation Code:		X	X	N	X	
* SSHS-B1249-10-12	7/6/18	1000	G	Solid	N		X	2	
* SSHS-B1249-10-12-DUP	7/6/18	1000	G	Solid	N		X	2	
* SSHS-B1104-12-14	7/6/18	0750	G	Solid	N		X	2	
* SSHS-B1104-4-6	7/5/18	1845	G	Solid	N		X	2	
SSHS-B1091-14-16	7/6/18	0700	G	Solid	N		X	2	
SSHS-B1162-8-10	7/5/18	1715	G	Solid	N		X	2	
SSHS-B1228-2-4	7/6/18	0800	G	Solid	N		X	2	
SSHSB1198-8-10	7/6/18	0730	G	Solid	N		X	2	
SSHSB1198-10-12	7/6/18	0735	G	Solid	N		X	2	
SSHSB1198-12-14	7/6/18	0740	G	Solid	N		X	2	
* SSHSB1205-2-4	7/5/18	1810	G	Water	N		X	2	

180-79550 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
M. Schallinger	7/6/18 1900	Geosyntec	FedEx		
Relinquished by:	Date/Time:	Company	Received by: Darlene Watkins	Date/Time: 7-7-18 9:30	Company TAPI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matthew Schallinger, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 1 of
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:			
City: Columbia	TAT Requested (days): 1 Day turnaround.			
State, Zip: MD 21044				
Phone:	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:			
Site: Former Sperry Remington Site - North	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A, PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
* SSHS-1205-12-14	7/5/18	1815	G	Solid	N		X	2	
SSHS-1092-14-16	7/6/18	0900	G	Solid	N		X	2	
SSHS-1092-14-16 -DUP	7/6/18	0900	G	Solid	N		X	2	
* SSHS-1093-14-16	7/6/18	0915	G	Solid	N		X	2	
* SSHS-1093-14-16 -Dup	7/6/18	0915	G	Solid	N		X	2	
SSHS-1094-14-16	7/6/18	0910	G	Solid	N		X	2	
SSHS-1094-14-16-MS-MSD	7/6/18	0910	G	Solid	N	X	X	6	
SSHS-1081-6-8	7/6/18	1030	G	Solid	N		X	2	
SSHS-1122-10-12	7/6/18	1100	G	Solid	N		X	2	
* SSHS-1076-4-6	7/6/18	1300	G	Solid	N		X	2	
* SSHS-1076-4-6-DUP	7/6/18	1300	G	Water	N		X	2	

Jim Bennett DKD 7/9/18

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: M Schallinger	Date/Time: 7/6/18 1900	Company: Geosyntec	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Debbie Walton	Date/Time: 7-7-18	Company: TAPIH
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:30	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matthew Schallinger, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 1 of
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:			
City: Columbia	TAT Requested (days): 1 Day turnaround.			
State, Zip: MD 21044				
Phone:	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:			
Site: Former Sperry Remington Site - North	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A, PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N		N		
* SSHS-1076-4-6-MS-MSD	7/6/18	1300	G	Solid	N	X	X	6	
* SSHS-1158-8-10-	7/6/18	1400	G	Solid	N		X	2	
* SSHS-1193-4-6	7/6/18	1420	G	Solid	N		X	2	
* SSHS-1086-10-12	7/6/18	~~1620~~ 1440	G	Solid	N		X	2	
SSHS-1247-10-12	7/6/18	1620	G	Solid	N		X	2	
SSHS-1203-4-6	7/6/18	1700	G	Solid	N		X	2	
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Water	N				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	7/6/18 1900	Geosyntec	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 7-7-18	Company TAP IT

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 9:30

7/11/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79550-1

Login Number: 79550
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79550-1

Login Number: 79550
List Number: 2
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79581-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/13/2018 4:06:50 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

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

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

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Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79581-1

Job ID: 180-79581-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79581-1

Receipt
The samples were received on 7/10/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-B1400-SUB-2-4 (180-79581-1) and SSHS-B1417-SUB-10-12 (180-79581-6). Elevated reporting limits (RLs) are provided.

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

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79581-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79581-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79581-1	SSHS-B1400-SUB-2-4	Solid	07/07/18 15:25	07/10/18 09:15
180-79581-2	SSHS-B1411-SUB-6-8	Solid	07/07/18 16:15	07/10/18 09:15
180-79581-3	SSHS-B1412-SUB-8-10	Solid	07/07/18 15:30	07/10/18 09:15
180-79581-4	SSHS-B1413-SUB-8-10	Solid	07/07/18 15:40	07/10/18 09:15
180-79581-5	SSHS-B1415-SUB-8-10	Solid	07/07/18 16:10	07/10/18 09:15
180-79581-6	SSHS-B1417-SUB-10-12	Solid	07/07/18 15:55	07/10/18 09:15
180-79581-7	SSHS-B1418-SUB-10-12	Solid	07/07/18 16:05	07/10/18 09:15
180-79581-8	SSHS-B1414-SUB-8-10	Solid	07/07/18 15:45	07/10/18 09:15
180-79581-9	SSHS-B1410-SUB-6-8	Solid	07/07/18 16:00	07/10/18 09:15
180-79581-10	SSHS-B1401-SUB-6-8	Solid	07/07/18 16:20	07/10/18 09:15
180-79581-11	SSHS-B1255-SUB-4-6-BOT	Solid	07/09/18 11:00	07/10/18 09:15
180-79581-12	SSHS-B1256-SUB-6-8-BOT	Solid	07/09/18 14:00	07/10/18 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79581-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79581-1

Client Sample ID: SSHS-B1400-SUB-2-4
Date Collected: 07/07/18 15:25
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1400-SUB-2-4
Date Collected: 07/07/18 15:25
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-1
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		10			250319	07/12/18 10:12	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1411-SUB-6-8
Date Collected: 07/07/18 16:15
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1411-SUB-6-8
Date Collected: 07/07/18 16:15
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-2
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250263	07/11/18 19:32	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1412-SUB-8-10
Date Collected: 07/07/18 15:30
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79581-1

Client Sample ID: SSHS-B1412-SUB-8-10
Date Collected: 07/07/18 15:30
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-3
Matrix: Solid
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250263	07/11/18 19:52	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1413-SUB-8-10
Date Collected: 07/07/18 15:40
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1413-SUB-8-10
Date Collected: 07/07/18 15:40
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-4
Matrix: Solid
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250263	07/11/18 20:12	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1415-SUB-8-10
Date Collected: 07/07/18 16:10
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1415-SUB-8-10
Date Collected: 07/07/18 16:10
Date Received: 07/10/18 09:15

Lab Sample ID: 180-79581-5
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250263	07/11/18 20:31	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79581-1

Client Sample ID: SSHS-B1417-SUB-10-12
Lab Sample ID: 180-79581-6
Date Collected: 07/07/18 15:55
Matrix: Solid
Date Received: 07/10/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1417-SUB-10-12
Lab Sample ID: 180-79581-6
Date Collected: 07/07/18 15:55
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		20			250319	07/12/18 10:32	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1418-SUB-10-12
Lab Sample ID: 180-79581-7
Date Collected: 07/07/18 16:05
Matrix: Solid
Date Received: 07/10/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1418-SUB-10-12
Lab Sample ID: 180-79581-7
Date Collected: 07/07/18 16:05
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250263	07/11/18 21:11	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1414-SUB-8-10
Lab Sample ID: 180-79581-8
Date Collected: 07/07/18 15:45
Matrix: Solid
Date Received: 07/10/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1414-SUB-8-10

Lab Sample ID: 180-79581-8
Date Collected: 07/07/18 15:45
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250263	07/11/18 21:30	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1410-SUB-6-8

Lab Sample ID: 180-79581-9
Date Collected: 07/07/18 16:00
Matrix: Solid
Date Received: 07/10/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1410-SUB-6-8

Lab Sample ID: 180-79581-9
Date Collected: 07/07/18 16:00
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250263	07/11/18 21:50	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1401-SUB-6-8

Lab Sample ID: 180-79581-10
Date Collected: 07/07/18 16:20
Matrix: Solid
Date Received: 07/10/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1401-SUB-6-8

Lab Sample ID: 180-79581-10
Date Collected: 07/07/18 16:20
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250263	07/11/18 22:09	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79581-1

Client Sample ID: SSHS-B1255-SUB-4-6-BOT — Lab Sample ID: 180-79581-11

Date Collected: 07/09/18 11:00 — **Matrix: Solid**
Date Received: 07/10/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1255-SUB-4-6-BOT — Lab Sample ID: 180-79581-11

Date Collected: 07/09/18 11:00 — **Matrix: Solid**
Date Received: 07/10/18 09:15 — **Percent Solids: 93.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250103	07/10/18 13:03	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250285	07/11/18 15:41	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250286	07/11/18 15:43	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250263	07/11/18 22:29	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1256-SUB-6-8-BOT — Lab Sample ID: 180-79581-12

Date Collected: 07/09/18 14:00 — **Matrix: Solid**
Date Received: 07/10/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250099	07/10/18 12:36	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1256-SUB-6-8-BOT — Lab Sample ID: 180-79581-12

Date Collected: 07/09/18 14:00 — **Matrix: Solid**
Date Received: 07/10/18 09:15 — **Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	250287	07/11/18 15:46	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250376	07/12/18 12:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250377	07/12/18 12:02	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250307	07/12/18 19:02	JMO	TAL PIT
	Instrument ID: CHGC10									

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79581-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

JMO = John Oravec

Batch Type: Prep

SAC = Shawn Clemente

Batch Type: Analysis

CMR = Carl Reagle

CRM = Caitlin McEvoy

JMO = John Oravec

Client Sample ID: SSHS-B1400-SUB-2-4

Lab Sample ID: 180-79581-1
Date Collected: 07/07/18 15:25
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 91.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	60	ug/Kg	☼	07/10/18 13:03	07/12/18 10:12	10
PCB-1221	ND		180	120	ug/Kg	☼	07/10/18 13:03	07/12/18 10:12	10
PCB-1232	ND		180	110	ug/Kg	☼	07/10/18 13:03	07/12/18 10:12	10
PCB-1242	ND		180	110	ug/Kg	☼	07/10/18 13:03	07/12/18 10:12	10
PCB-1248	**11000**		180	140	ug/Kg	☼	07/10/18 13:03	07/12/18 10:12	10
PCB-1254	**4800**		180	130	ug/Kg	☼	07/10/18 13:03	07/12/18 10:12	10
PCB-1260	**480**		180	52	ug/Kg	☼	07/10/18 13:03	07/12/18 10:12	10
PCB-1262	ND		180	130	ug/Kg	☼	07/10/18 13:03	07/12/18 10:12	10
PCB-1268	ND		180	89	ug/Kg	☼	07/10/18 13:03	07/12/18 10:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*07/10/18 13:03*	*07/12/18 10:12*	*10*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/10/18 13:03*	*07/12/18 10:12*	*10*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/10/18 13:03*	*07/12/18 10:12*	*10*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*07/10/18 13:03*	*07/12/18 10:12*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**91.0**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1411-SUB-6-8

Lab Sample ID: 180-79581-2
Date Collected: 07/07/18 16:15
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 91.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	07/10/18 13:03	07/11/18 19:32	1
PCB-1221	ND		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 19:32	1
PCB-1232	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 19:32	1
PCB-1242	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 19:32	1
PCB-1248	**2200**		18	15	ug/Kg	☼	07/10/18 13:03	07/11/18 19:32	1
PCB-1254	**1300**		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 19:32	1
PCB-1260	**180**		18	5.2	ug/Kg	☼	07/10/18 13:03	07/11/18 19:32	1
PCB-1262	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 19:32	1
PCB-1268	ND		18	8.9	ug/Kg	☼	07/10/18 13:03	07/11/18 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*33 - 137*	*07/10/18 13:03*	*07/11/18 19:32*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*33 - 137*	*07/10/18 13:03*	*07/11/18 19:32*	*1*
Tetrachloro-m-xylene (Surr)	*58*		*44 - 114*	*07/10/18 13:03*	*07/11/18 19:32*	*1*
Tetrachloro-m-xylene (Surr)	*53*		*44 - 114*	*07/10/18 13:03*	*07/11/18 19:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**91.0**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1412-SUB-8-10

Lab Sample ID: 180-79581-3
Date Collected: 07/07/18 15:30
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 89.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/10/18 13:03	07/11/18 19:52	1
PCB-1221	ND		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 19:52	1
PCB-1232	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 19:52	1
PCB-1242	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 19:52	1
PCB-1248	**280**		18	14	ug/Kg	☼	07/10/18 13:03	07/11/18 19:52	1
PCB-1254	**250**		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 19:52	1
PCB-1260	**49**		18	5.2	ug/Kg	☼	07/10/18 13:03	07/11/18 19:52	1
PCB-1262	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 19:52	1
PCB-1268	ND		18	8.8	ug/Kg	☼	07/10/18 13:03	07/11/18 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*	*07/10/18 13:03*	*07/11/18 19:52*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/10/18 13:03*	*07/11/18 19:52*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/10/18 13:03*	*07/11/18 19:52*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*07/10/18 13:03*	*07/11/18 19:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**89.7**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1413-SUB-8-10

Lab Sample ID: 180-79581-4
Date Collected: 07/07/18 15:40
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 89.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	07/10/18 13:03	07/11/18 20:12	1
PCB-1221	ND		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 20:12	1
PCB-1232	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 20:12	1
PCB-1242	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 20:12	1
PCB-1248	**2800**		18	15	ug/Kg	☼	07/10/18 13:03	07/11/18 20:12	1
PCB-1254	**1300**		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 20:12	1
PCB-1260	**170**		18	5.2	ug/Kg	☼	07/10/18 13:03	07/11/18 20:12	1
PCB-1262	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 20:12	1
PCB-1268	ND		18	8.9	ug/Kg	☼	07/10/18 13:03	07/11/18 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*33 - 137*	*07/10/18 13:03*	*07/11/18 20:12*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*33 - 137*	*07/10/18 13:03*	*07/11/18 20:12*	*1*
Tetrachloro-m-xylene (Surr)	*59*		*44 - 114*	*07/10/18 13:03*	*07/11/18 20:12*	*1*
Tetrachloro-m-xylene (Surr)	*55*		*44 - 114*	*07/10/18 13:03*	*07/11/18 20:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**89.5**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1415-SUB-8-10

Lab Sample ID: 180-79581-5
Date Collected: 07/07/18 16:10
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 91.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.8	ug/Kg	☼	07/10/18 13:03	07/11/18 20:31	1
PCB-1221	ND		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 20:31	1
PCB-1232	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 20:31	1
PCB-1242	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 20:31	1
PCB-1248	**420**		18	14	ug/Kg	☼	07/10/18 13:03	07/11/18 20:31	1
PCB-1254	**340**		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 20:31	1
PCB-1260	**48**		18	5.1	ug/Kg	☼	07/10/18 13:03	07/11/18 20:31	1
PCB-1262	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 20:31	1
PCB-1268	ND		18	8.7	ug/Kg	☼	07/10/18 13:03	07/11/18 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/10/18 13:03*	*07/11/18 20:31*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/10/18 13:03*	*07/11/18 20:31*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*07/10/18 13:03*	*07/11/18 20:31*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*07/10/18 13:03*	*07/11/18 20:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**91.5**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1417-SUB-10-12

Lab Sample ID: 180-79581-6
Date Collected: 07/07/18 15:55
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 89.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		370	120	ug/Kg	☼	07/10/18 13:03	07/12/18 10:32	20
PCB-1221	ND		370	240	ug/Kg	☼	07/10/18 13:03	07/12/18 10:32	20
PCB-1232	ND		370	220	ug/Kg	☼	07/10/18 13:03	07/12/18 10:32	20
PCB-1242	ND		370	220	ug/Kg	☼	07/10/18 13:03	07/12/18 10:32	20
PCB-1248	**28000**		370	290	ug/Kg	☼	07/10/18 13:03	07/12/18 10:32	20
PCB-1254	**11000**		370	250	ug/Kg	☼	07/10/18 13:03	07/12/18 10:32	20
PCB-1260	**1200**		370	110	ug/Kg	☼	07/10/18 13:03	07/12/18 10:32	20
PCB-1262	ND		370	260	ug/Kg	☼	07/10/18 13:03	07/12/18 10:32	20
PCB-1268	ND		370	180	ug/Kg	☼	07/10/18 13:03	07/12/18 10:32	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*101*		*33 - 137*	*07/10/18 13:03*	*07/12/18 10:32*	*20*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/10/18 13:03*	*07/12/18 10:32*	*20*
Tetrachloro-m-xylene (Surr)	*61*		*44 - 114*	*07/10/18 13:03*	*07/12/18 10:32*	*20*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*07/10/18 13:03*	*07/12/18 10:32*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**89.6**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1418-SUB-10-12

Lab Sample ID: 180-79581-7
Date Collected: 07/07/18 16:05
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 92.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/10/18 13:03	07/11/18 21:11	1
PCB-1221	ND		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 21:11	1
PCB-1232	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 21:11	1
PCB-1242	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 21:11	1
PCB-1248	**850**		18	14	ug/Kg	☼	07/10/18 13:03	07/11/18 21:11	1
PCB-1254	**390**		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 21:11	1
PCB-1260	**46**		18	5.1	ug/Kg	☼	07/10/18 13:03	07/11/18 21:11	1
PCB-1262	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 21:11	1
PCB-1268	ND		18	8.8	ug/Kg	☼	07/10/18 13:03	07/11/18 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*33 - 137*	*07/10/18 13:03*	*07/11/18 21:11*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*33 - 137*	*07/10/18 13:03*	*07/11/18 21:11*	*1*
Tetrachloro-m-xylene (Surr)	*63*		*44 - 114*	*07/10/18 13:03*	*07/11/18 21:11*	*1*
Tetrachloro-m-xylene (Surr)	*57*		*44 - 114*	*07/10/18 13:03*	*07/11/18 21:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**92.2**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1414-SUB-8-10

Lab Sample ID: 180-79581-8
Date Collected: 07/07/18 15:45
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 90.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	07/10/18 13:03	07/11/18 21:30	1
PCB-1221	ND		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 21:30	1
PCB-1232	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 21:30	1
PCB-1242	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 21:30	1
PCB-1248	ND		18	15	ug/Kg	☼	07/10/18 13:03	07/11/18 21:30	1
PCB-1254	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 21:30	1
PCB-1260	ND		18	5.2	ug/Kg	☼	07/10/18 13:03	07/11/18 21:30	1
PCB-1262	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 21:30	1
PCB-1268	ND		18	8.9	ug/Kg	☼	07/10/18 13:03	07/11/18 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*07/10/18 13:03*	*07/11/18 21:30*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*07/10/18 13:03*	*07/11/18 21:30*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/10/18 13:03*	*07/11/18 21:30*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/10/18 13:03*	*07/11/18 21:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**90.1**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1410-SUB-6-8

Lab Sample ID: 180-79581-9

Date Collected: 07/07/18 16:00
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 89.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	07/10/18 13:03	07/11/18 21:50	1
PCB-1221	ND		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 21:50	1
PCB-1232	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 21:50	1
PCB-1242	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 21:50	1
PCB-1248	**350**		18	15	ug/Kg	☼	07/10/18 13:03	07/11/18 21:50	1
PCB-1254	**180**		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 21:50	1
PCB-1260	**27**		18	5.3	ug/Kg	☼	07/10/18 13:03	07/11/18 21:50	1
PCB-1262	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 21:50	1
PCB-1268	ND		18	9.0	ug/Kg	☼	07/10/18 13:03	07/11/18 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*07/10/18 13:03*	*07/11/18 21:50*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*07/10/18 13:03*	*07/11/18 21:50*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/10/18 13:03*	*07/11/18 21:50*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/10/18 13:03*	*07/11/18 21:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**89.7**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1401-SUB-6-8

Lab Sample ID: 180-79581-10

Date Collected: 07/07/18 16:20
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 93.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.8	ug/Kg	☼	07/10/18 13:03	07/11/18 22:09	1
PCB-1221	ND		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 22:09	1
PCB-1232	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 22:09	1
PCB-1242	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 22:09	1
PCB-1248	**4900**		18	14	ug/Kg	☼	07/10/18 13:03	07/11/18 22:09	1
PCB-1254	**2000**		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 22:09	1
PCB-1260	**260**		18	5.1	ug/Kg	☼	07/10/18 13:03	07/11/18 22:09	1
PCB-1262	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 22:09	1
PCB-1268	ND		18	8.6	ug/Kg	☼	07/10/18 13:03	07/11/18 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/10/18 13:03*	*07/11/18 22:09*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/10/18 13:03*	*07/11/18 22:09*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/10/18 13:03*	*07/11/18 22:09*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/10/18 13:03*	*07/11/18 22:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.4**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**93.6**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1255-SUB-4-6-BOT

Lab Sample ID: 180-79581-11
Date Collected: 07/09/18 11:00
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 93.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.8	ug/Kg	☼	07/10/18 13:03	07/11/18 22:29	1
PCB-1221	ND		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 22:29	1
PCB-1232	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 22:29	1
PCB-1242	ND		18	11	ug/Kg	☼	07/10/18 13:03	07/11/18 22:29	1
PCB-1248	**4900**		18	14	ug/Kg	☼	07/10/18 13:03	07/11/18 22:29	1
PCB-1254	**2400**		18	12	ug/Kg	☼	07/10/18 13:03	07/11/18 22:29	1
PCB-1260	**260**		18	5.1	ug/Kg	☼	07/10/18 13:03	07/11/18 22:29	1
PCB-1262	ND		18	13	ug/Kg	☼	07/10/18 13:03	07/11/18 22:29	1
PCB-1268	ND		18	8.7	ug/Kg	☼	07/10/18 13:03	07/11/18 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/10/18 13:03*	*07/11/18 22:29*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*07/10/18 13:03*	*07/11/18 22:29*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/10/18 13:03*	*07/11/18 22:29*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/10/18 13:03*	*07/11/18 22:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.6**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**93.4**		0.1	0.1	%			07/10/18 12:36	1

Client Sample ID: SSHS-B1256-SUB-6-8-BOT

Lab Sample ID: 180-79581-12
Date Collected: 07/09/18 14:00
Matrix: Solid
Date Received: 07/10/18 09:15
Percent Solids: 87.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/11/18 15:46	07/12/18 19:02	1
PCB-1221	ND		19	12	ug/Kg	☼	07/11/18 15:46	07/12/18 19:02	1
PCB-1232	ND		19	11	ug/Kg	☼	07/11/18 15:46	07/12/18 19:02	1
PCB-1242	ND		19	11	ug/Kg	☼	07/11/18 15:46	07/12/18 19:02	1
PCB-1248	**660**		19	15	ug/Kg	☼	07/11/18 15:46	07/12/18 19:02	1
PCB-1254	**350**		19	13	ug/Kg	☼	07/11/18 15:46	07/12/18 19:02	1
PCB-1260	**81**		19	5.3	ug/Kg	☼	07/11/18 15:46	07/12/18 19:02	1
PCB-1262	ND		19	13	ug/Kg	☼	07/11/18 15:46	07/12/18 19:02	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/11/18 15:46	07/12/18 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/11/18 15:46*	*07/12/18 19:02*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/11/18 15:46*	*07/12/18 19:02*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/11/18 15:46*	*07/12/18 19:02*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/11/18 15:46*	*07/12/18 19:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			07/10/18 12:36	1
Percent Solids	**87.9**		0.1	0.1	%			07/10/18 12:36	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-250103/1-A
Matrix: Solid
Analysis Batch: 250263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/10/18 13:03	07/11/18 17:34	1
PCB-1221	ND		17	11	ug/Kg		07/10/18 13:03	07/11/18 17:34	1
PCB-1232	ND		17	9.9	ug/Kg		07/10/18 13:03	07/11/18 17:34	1
PCB-1242	ND		17	10	ug/Kg		07/10/18 13:03	07/11/18 17:34	1
PCB-1248	ND		17	13	ug/Kg		07/10/18 13:03	07/11/18 17:34	1
PCB-1254	ND		17	11	ug/Kg		07/10/18 13:03	07/11/18 17:34	1
PCB-1260	ND		17	4.7	ug/Kg		07/10/18 13:03	07/11/18 17:34	1
PCB-1262	ND		17	12	ug/Kg		07/10/18 13:03	07/11/18 17:34	1
PCB-1268	ND		17	8.1	ug/Kg		07/10/18 13:03	07/11/18 17:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*33 - 137*	*07/10/18 13:03*	*07/11/18 17:34*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*07/10/18 13:03*	*07/11/18 17:34*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*	*07/10/18 13:03*	*07/11/18 17:34*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*07/10/18 13:03*	*07/11/18 17:34*	*1*

Lab Sample ID: LCS 180-250103/2-A
Matrix: Solid
Analysis Batch: 250263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1330	1170		ug/Kg		88	46 - 122
PCB-1260	1330	1190		ug/Kg		89	51 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*

Lab Sample ID: MB 180-250287/1-A
Matrix: Solid
Analysis Batch: 250307

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/11/18 15:46	07/12/18 17:09	1
PCB-1221	ND		17	11	ug/Kg		07/11/18 15:46	07/12/18 17:09	1
PCB-1232	ND		17	9.9	ug/Kg		07/11/18 15:46	07/12/18 17:09	1
PCB-1242	ND		17	10	ug/Kg		07/11/18 15:46	07/12/18 17:09	1
PCB-1248	ND		17	13	ug/Kg		07/11/18 15:46	07/12/18 17:09	1
PCB-1254	ND		17	11	ug/Kg		07/11/18 15:46	07/12/18 17:09	1
PCB-1260	ND		17	4.7	ug/Kg		07/11/18 15:46	07/12/18 17:09	1
PCB-1262	ND		17	12	ug/Kg		07/11/18 15:46	07/12/18 17:09	1
PCB-1268	ND		17	8.1	ug/Kg		07/11/18 15:46	07/12/18 17:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*101*		*33 - 137*	*07/11/18 15:46*	*07/12/18 17:09*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-250287/1-A
Matrix: Solid
Analysis Batch: 250307

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250287

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	96		33 - 137	07/11/18 15:46	07/12/18 17:09	1
Tetrachloro-m-xylene (Surr)	96		44 - 114	07/11/18 15:46	07/12/18 17:09	1
Tetrachloro-m-xylene (Surr)	92		44 - 114	07/11/18 15:46	07/12/18 17:09	1

Lab Sample ID: LCS 180-250287/2-A
Matrix: Solid
Analysis Batch: 250307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250287

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1330	1090		ug/Kg		81	46 - 122
PCB-1260	1330	1290		ug/Kg		97	51 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	87		33 - 137
DCB Decachlorobiphenyl (Surr)	79		33 - 137
Tetrachloro-m-xylene (Surr)	76		44 - 114
Tetrachloro-m-xylene (Surr)	82		44 - 114

Method: 2540G - SM 2540G

Lab Sample ID: 180-79581-1 DU
Matrix: Solid
Analysis Batch: 250099

Client Sample ID: SSHS-B1400-SUB-2-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.0		9.3		%		4	20
Percent Solids	91.0		90.7		%		0.4	20

Lab Sample ID: 180-79581-10 DU
Matrix: Solid
Analysis Batch: 250099

Client Sample ID: SSHS-B1401-SUB-6-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	6.4		6.4		%		0.2	20
Percent Solids	93.6		93.6		%		0	20

GC Semi VOA

Prep Batch: 250103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-1	SSHS-B1400-SUB-2-4	Total/NA	Solid	3541	
180-79581-2	SSHS-B1411-SUB-6-8	Total/NA	Solid	3541	
180-79581-3	SSHS-B1412-SUB-8-10	Total/NA	Solid	3541	
180-79581-4	SSHS-B1413-SUB-8-10	Total/NA	Solid	3541	
180-79581-5	SSHS-B1415-SUB-8-10	Total/NA	Solid	3541	
180-79581-6	SSHS-B1417-SUB-10-12	Total/NA	Solid	3541	
180-79581-7	SSHS-B1418-SUB-10-12	Total/NA	Solid	3541	
180-79581-8	SSHS-B1414-SUB-8-10	Total/NA	Solid	3541	
180-79581-9	SSHS-B1410-SUB-6-8	Total/NA	Solid	3541	
180-79581-10	SSHS-B1401-SUB-6-8	Total/NA	Solid	3541	
180-79581-11	SSHS-B1255-SUB-4-6-BOT	Total/NA	Solid	3541	
MB 180-250103/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-250103/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 250263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-2	SSHS-B1411-SUB-6-8	Total/NA	Solid	EPA 8082A	250286
180-79581-3	SSHS-B1412-SUB-8-10	Total/NA	Solid	EPA 8082A	250286
180-79581-4	SSHS-B1413-SUB-8-10	Total/NA	Solid	EPA 8082A	250286
180-79581-5	SSHS-B1415-SUB-8-10	Total/NA	Solid	EPA 8082A	250286
180-79581-7	SSHS-B1418-SUB-10-12	Total/NA	Solid	EPA 8082A	250286
180-79581-8	SSHS-B1414-SUB-8-10	Total/NA	Solid	EPA 8082A	250286
180-79581-9	SSHS-B1410-SUB-6-8	Total/NA	Solid	EPA 8082A	250286
180-79581-10	SSHS-B1401-SUB-6-8	Total/NA	Solid	EPA 8082A	250286
180-79581-11	SSHS-B1255-SUB-4-6-BOT	Total/NA	Solid	EPA 8082A	250286
MB 180-250103/1-A	Method Blank	Total/NA	Solid	EPA 8082A	250103
LCS 180-250103/2-A	Lab Control Sample	Total/NA	Solid	EPA 8082A	250103

Cleanup Batch: 250285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-1	SSHS-B1400-SUB-2-4	Total/NA	Solid	3665A	250103
180-79581-2	SSHS-B1411-SUB-6-8	Total/NA	Solid	3665A	250103
180-79581-3	SSHS-B1412-SUB-8-10	Total/NA	Solid	3665A	250103
180-79581-4	SSHS-B1413-SUB-8-10	Total/NA	Solid	3665A	250103
180-79581-5	SSHS-B1415-SUB-8-10	Total/NA	Solid	3665A	250103
180-79581-6	SSHS-B1417-SUB-10-12	Total/NA	Solid	3665A	250103
180-79581-7	SSHS-B1418-SUB-10-12	Total/NA	Solid	3665A	250103
180-79581-8	SSHS-B1414-SUB-8-10	Total/NA	Solid	3665A	250103
180-79581-9	SSHS-B1410-SUB-6-8	Total/NA	Solid	3665A	250103
180-79581-10	SSHS-B1401-SUB-6-8	Total/NA	Solid	3665A	250103
180-79581-11	SSHS-B1255-SUB-4-6-BOT	Total/NA	Solid	3665A	250103

Cleanup Batch: 250286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-1	SSHS-B1400-SUB-2-4	Total/NA	Solid	3660B	250285
180-79581-2	SSHS-B1411-SUB-6-8	Total/NA	Solid	3660B	250285
180-79581-3	SSHS-B1412-SUB-8-10	Total/NA	Solid	3660B	250285
180-79581-4	SSHS-B1413-SUB-8-10	Total/NA	Solid	3660B	250285
180-79581-5	SSHS-B1415-SUB-8-10	Total/NA	Solid	3660B	250285
180-79581-6	SSHS-B1417-SUB-10-12	Total/NA	Solid	3660B	250285
180-79581-7	SSHS-B1418-SUB-10-12	Total/NA	Solid	3660B	250285

GC Semi VOA (Continued)

Cleanup Batch: 250286 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-8	SSHS-B1414-SUB-8-10	Total/NA	Solid	3660B	250285
180-79581-9	SSHS-B1410-SUB-6-8	Total/NA	Solid	3660B	250285
180-79581-10	SSHS-B1401-SUB-6-8	Total/NA	Solid	3660B	250285
180-79581-11	SSHS-B1255-SUB-4-6-BOT	Total/NA	Solid	3660B	250285

Prep Batch: 250287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-12	SSHS-B1256-SUB-6-8-BOT	Total/NA	Solid	3541	
MB 180-250287/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-250287/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 250307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-12	SSHS-B1256-SUB-6-8-BOT	Total/NA	Solid	EPA 8082A	250377
MB 180-250287/1-A	Method Blank	Total/NA	Solid	EPA 8082A	250287
LCS 180-250287/2-A	Lab Control Sample	Total/NA	Solid	EPA 8082A	250287

Analysis Batch: 250319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-1	SSHS-B1400-SUB-2-4	Total/NA	Solid	EPA 8082A	250286
180-79581-6	SSHS-B1417-SUB-10-12	Total/NA	Solid	EPA 8082A	250286

Cleanup Batch: 250376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-12	SSHS-B1256-SUB-6-8-BOT	Total/NA	Solid	3665A	250287

Cleanup Batch: 250377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-12	SSHS-B1256-SUB-6-8-BOT	Total/NA	Solid	3660B	250376

General Chemistry

Analysis Batch: 250099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79581-1	SSHS-B1400-SUB-2-4	Total/NA	Solid	2540G	
180-79581-2	SSHS-B1411-SUB-6-8	Total/NA	Solid	2540G	
180-79581-3	SSHS-B1412-SUB-8-10	Total/NA	Solid	2540G	
180-79581-4	SSHS-B1413-SUB-8-10	Total/NA	Solid	2540G	
180-79581-5	SSHS-B1415-SUB-8-10	Total/NA	Solid	2540G	
180-79581-6	SSHS-B1417-SUB-10-12	Total/NA	Solid	2540G	
180-79581-7	SSHS-B1418-SUB-10-12	Total/NA	Solid	2540G	
180-79581-8	SSHS-B1414-SUB-8-10	Total/NA	Solid	2540G	
180-79581-9	SSHS-B1410-SUB-6-8	Total/NA	Solid	2540G	
180-79581-10	SSHS-B1401-SUB-6-8	Total/NA	Solid	2540G	
180-79581-11	SSHS-B1255-SUB-4-6-BOT	Total/NA	Solid	2540G	
180-79581-12	SSHS-B1256-SUB-6-8-BOT	Total/NA	Solid	2540G	
180-79581-1 DU	SSHS-B1400-SUB-2-4	Total/NA	Solid	2540G	
180-79581-10 DU	SSHS-B1401-SUB-6-8	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matthew Schallinger, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 1 of
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:			
City: Columbia	TAT Requested (days): 1 Day turnaround.			
State, Zip: MD 21044				
Phone:	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:			
Site: Former Sperry Remington Site - North	SSOW#:			

Analysis Requested

180-79581 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Hold Metals

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A, PCBs	Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code				N	N		
SSHS-B1400-SUB-2-4	7/7/18	15:25	G	Solid	N	N	X	X	3	
SSHS-B1411-SUB-6-8	7/7/18	16:15	G	Solid	N	N	X	X	3	
SSHS-B1412-SUB-8-10	7/7/18	15:30	G	Solid	N	N	X	X	3	
SSHS-B1413-SUB-8-10	7/7/18	15:40	G	Solid	N	N	X	X	3	
SSHS-B1415-SUB-8-10	7/7/18	16:10	G	Solid	N	N	X	X	3	
SSHS-B1417-SUB-10-12	7/7/18	15:55	G	Solid	N	N	X	X	3	
SSHS-B1418-SUB-10-12	7/7/18	16:05	G	Solid	N	N	X	X	3	
SSHS-B1414-SUB-8-10	7/7/18	1545	G	Solid	N	N	X	X	3	
SSHS-B1410-SUB-6-8	7/7/18	16:00	G	Solid	N	N	X	X	3	
SSHS-B1401-SUB-6-8	7/7/18	16:20	G	Solid	N	N	X	X	3	
SSHS-B1255-Sub-4-6-Bot	7/9/18	1100	G	Water	N	N	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	7/9/18 1900	Geosyntec	FedEx	7/9/18 1900	FedEx
Relinquished by:	Date/Time:	Company	Received by:	7/10/18 915	TA Pitt
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matthew Schallinger, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 1 of
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:			
City: Columbia	TAT Requested (days): 1 Day turnaround.			
State, Zip: MD 21044				
Phone:	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:			
Site: Former Sperry Remington Site - North	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A, PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code				N		
SHS-B256-SUB-68-Bot	7/9/18	1400	G	Solid	N		X		
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Water	N				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	7/9/18 1900	Geosyntec	FedEx	7/9/18 1900	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/10/18 915	Company TA PITT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/13/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79581-1

Login Number: 79581
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79670-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/16/2018 3:08:22 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 180-79670-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79670-1

Receipt
The samples were received on 7/12/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4º C.

One of the container labels for sample SW-009-6-8 had SW-009-2-4 written on it. As the ID of SW-009-6-8 was written on the jar lid and there was no SW-009-2-4 listed on the COC, the sample was identified as SW-009-6-8.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-B1257-SUB-6-8-BOT (180-79670-1), SW-006-4-6 (180-79670-7), SW-009-6-8 (180-79670-10), and SW-011-10-12 (180-79670-12) and its matrix spikes. Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-250548 (CCV 180-250548/1) was above criteria for aroclor 1254 on column RTX-CLP1. The associated sample results for aroclor 1254 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-250548 (CCV 180-250548/47) was below criteria for aroclor 1221 and also for 1 peak for aroclor 1254 on column RTX-CLP2 . The associated sample results for aroclors 1221 and 1254 were reported from column RTX-CLP1 which met criteria. The % difference between the sample results for aroclor 1254 on both columns was <40%. Aroclor 1221 was not detected in the associated samples.

Method(s) 8082A: The matrix spike/matrix spike duplicate (MS/MSD) recoveries of sample SW-011-10-12 (180-79670-12) were above the control limits for aroclor 1016. The RPD between the spikes was also above the control limits for aroclors 1016 and 1260. The recoveries of the laboratory control sample (LCS) were within the control limits.

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79670-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79670-1	SSHS-B1257-SUB-6-8-BOT	Solid	07/10/18 15:00	07/12/18 11:08
180-79670-2	SW-001-0-2	Solid	07/11/18 13:55	07/12/18 11:08
180-79670-3	SW-002-2-4	Solid	07/11/18 14:00	07/12/18 11:08
180-79670-4	SW-003-2-4	Solid	07/11/18 14:05	07/12/18 11:08
180-79670-5	SW-004-4-6	Solid	07/11/18 14:10	07/12/18 11:08
180-79670-6	SW-005-4-6	Solid	07/11/18 14:15	07/12/18 11:08
180-79670-7	SW-006-4-6	Solid	07/11/18 14:20	07/12/18 11:08
180-79670-8	SW-007-4-6	Solid	07/11/18 14:25	07/12/18 11:08
180-79670-9	SW-008-6-8	Solid	07/11/18 14:30	07/12/18 11:08
180-79670-10	SW-009-6-8	Solid	07/11/18 14:40	07/12/18 11:08
180-79670-11	SW-010-8-10	Solid	07/11/18 14:50	07/12/18 11:08
180-79670-12	SW-011-10-12	Solid	07/11/18 14:55	07/12/18 09:15
180-79670-13	SW-012-2-4	Solid	07/11/18 15:15	07/12/18 09:15
180-79670-14	SW-013-2-4	Solid	07/11/18 15:25	07/12/18 09:15
180-79670-15	SW-014-0-2	Solid	07/11/18 15:25	07/12/18 09:15
180-79670-16	SW-015-0-2	Solid	07/11/18 15:30	07/12/18 09:15
180-79670-17	SW-016-2-4	Solid	07/11/18 15:30	07/12/18 09:15
180-79670-18	DUP1	Solid	07/11/18 00:00	07/12/18 09:15
180-79670-19	DUP2	Solid	07/11/18 00:00	07/12/18 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Client Sample ID: SSHS-B1257-SUB-6-8-BOT
Date Collected: 07/10/18 15:00
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1257-SUB-6-8-BOT
Date Collected: 07/10/18 15:00
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-1
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		20			250582	07/15/18 13:27	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-001-0-2
Date Collected: 07/11/18 13:55
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-001-0-2
Date Collected: 07/11/18 13:55
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-2
Matrix: Solid
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/14/18 19:05	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-002-2-4
Date Collected: 07/11/18 14:00
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Client Sample ID: SW-002-2-4

Lab Sample ID: 180-79670-3
Date Collected: 07/11/18 14:00
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/14/18 19:24	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-003-2-4

Lab Sample ID: 180-79670-4
Date Collected: 07/11/18 14:05
Matrix: Solid
Date Received: 07/12/18 11:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-003-2-4

Lab Sample ID: 180-79670-4
Date Collected: 07/11/18 14:05
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/14/18 19:44	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-004-4-6

Lab Sample ID: 180-79670-5
Date Collected: 07/11/18 14:10
Matrix: Solid
Date Received: 07/12/18 11:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-004-4-6

Lab Sample ID: 180-79670-5
Date Collected: 07/11/18 14:10
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/14/18 20:04	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Client Sample ID: SW-005-4-6
Date Collected: 07/11/18 14:15
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-005-4-6
Date Collected: 07/11/18 14:15
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-6
Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/14/18 20:23	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-006-4-6
Date Collected: 07/11/18 14:20
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-006-4-6
Date Collected: 07/11/18 14:20
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-7
Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			250582	07/15/18 13:46	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-007-4-6
Date Collected: 07/11/18 14:25
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Client Sample ID: SW-007-4-6

Lab Sample ID: 180-79670-8
Date Collected: 07/11/18 14:25
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/14/18 21:03	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-008-6-8

Lab Sample ID: 180-79670-9
Date Collected: 07/11/18 14:30
Matrix: Solid
Date Received: 07/12/18 11:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-008-6-8

Lab Sample ID: 180-79670-9
Date Collected: 07/11/18 14:30
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/14/18 21:22	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-009-6-8

Lab Sample ID: 180-79670-10
Date Collected: 07/11/18 14:40
Matrix: Solid
Date Received: 07/12/18 11:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-009-6-8

Lab Sample ID: 180-79670-10
Date Collected: 07/11/18 14:40
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		5			250582	07/15/18 14:06	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Client Sample ID: SW-010-8-10
Date Collected: 07/11/18 14:50
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-010-8-10
Date Collected: 07/11/18 14:50
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-11
Matrix: Solid
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/14/18 22:02	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-011-10-12
Date Collected: 07/11/18 14:55
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-011-10-12
Date Collected: 07/11/18 14:55
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-12
Matrix: Solid
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		20			250582	07/15/18 14:26	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-012-2-4
Date Collected: 07/11/18 15:15
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-012-2-4

Lab Sample ID: 180-79670-13
Date Collected: 07/11/18 15:15
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/15/18 01:18	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-013-2-4

Lab Sample ID: 180-79670-14
Date Collected: 07/11/18 15:25
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-013-2-4

Lab Sample ID: 180-79670-14
Date Collected: 07/11/18 15:25
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/15/18 01:38	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-014-0-2

Lab Sample ID: 180-79670-15
Date Collected: 07/11/18 15:25
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-014-0-2

Lab Sample ID: 180-79670-15
Date Collected: 07/11/18 15:25
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/15/18 01:58	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Client Sample ID: SW-015-0-2
Date Collected: 07/11/18 15:30
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-015-0-2
Date Collected: 07/11/18 15:30
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-16
Matrix: Solid
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/15/18 02:17	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-016-2-4
Date Collected: 07/11/18 15:30
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-016-2-4
Date Collected: 07/11/18 15:30
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-17
Matrix: Solid
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/15/18 02:37	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: DUP1
Date Collected: 07/11/18 00:00
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Client Sample ID: DUP1

Date Collected: 07/11/18 00:00
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-18

Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/15/18 02:57	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: DUP2

Date Collected: 07/11/18 00:00
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250373	07/12/18 11:55	CRM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP2

Date Collected: 07/11/18 00:00
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-19

Matrix: Solid
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	250387	07/12/18 12:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250505	07/13/18 12:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250507	07/13/18 12:58	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250548	07/15/18 03:16	CMR	TAL PIT
	Instrument ID: CHGC8									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

SAC = Shawn Clemente

Batch Type: Analysis

CMR = Carl Reagle

CRM = Caitlin McEvoy

Client Sample ID: SSHS-B1257-SUB-6-8-BOT

Lab Sample ID: 180-79670-1
Date Collected: 07/10/18 15:00
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 90.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		360	120	ug/Kg	☼	07/12/18 12:28	07/15/18 13:27	20
PCB-1221	ND		360	240	ug/Kg	☼	07/12/18 12:28	07/15/18 13:27	20
PCB-1232	ND		360	220	ug/Kg	☼	07/12/18 12:28	07/15/18 13:27	20
PCB-1242	ND		360	220	ug/Kg	☼	07/12/18 12:28	07/15/18 13:27	20
PCB-1248	**45000**		360	290	ug/Kg	☼	07/12/18 12:28	07/15/18 13:27	20
PCB-1254	**17000**		360	250	ug/Kg	☼	07/12/18 12:28	07/15/18 13:27	20
PCB-1260	**1300**		360	100	ug/Kg	☼	07/12/18 12:28	07/15/18 13:27	20
PCB-1262	ND		360	260	ug/Kg	☼	07/12/18 12:28	07/15/18 13:27	20
PCB-1268	ND		360	180	ug/Kg	☼	07/12/18 12:28	07/15/18 13:27	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*109*		*33 - 137*	*07/12/18 12:28*	*07/15/18 13:27*	*20*
DCB Decachlorobiphenyl (Surr)	*112*		*33 - 137*	*07/12/18 12:28*	*07/15/18 13:27*	*20*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/12/18 12:28*	*07/15/18 13:27*	*20*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/12/18 12:28*	*07/15/18 13:27*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**90.8**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-001-0-2

Lab Sample ID: 180-79670-2
Date Collected: 07/11/18 13:55
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 99.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.5	ug/Kg	☼	07/12/18 12:28	07/14/18 19:05	1
PCB-1221	ND		17	11	ug/Kg	☼	07/12/18 12:28	07/14/18 19:05	1
PCB-1232	ND		17	10	ug/Kg	☼	07/12/18 12:28	07/14/18 19:05	1
PCB-1242	ND		17	10	ug/Kg	☼	07/12/18 12:28	07/14/18 19:05	1
PCB-1248	**120**		17	13	ug/Kg	☼	07/12/18 12:28	07/14/18 19:05	1
PCB-1254	**63**		17	12	ug/Kg	☼	07/12/18 12:28	07/14/18 19:05	1
PCB-1260	ND		17	4.8	ug/Kg	☼	07/12/18 12:28	07/14/18 19:05	1
PCB-1262	ND		17	12	ug/Kg	☼	07/12/18 12:28	07/14/18 19:05	1
PCB-1268	ND		17	8.2	ug/Kg	☼	07/12/18 12:28	07/14/18 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*33 - 137*	*07/12/18 12:28*	*07/14/18 19:05*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*33 - 137*	*07/12/18 12:28*	*07/14/18 19:05*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/12/18 12:28*	*07/14/18 19:05*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*44 - 114*	*07/12/18 12:28*	*07/14/18 19:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**1.0**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**99.0**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-002-2-4

Date Collected: 07/11/18 14:00
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-3

Matrix: Solid
Percent Solids: 85.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	07/12/18 12:28	07/14/18 19:24	1
PCB-1221	ND		20	13	ug/Kg	☼	07/12/18 12:28	07/14/18 19:24	1
PCB-1232	ND		20	12	ug/Kg	☼	07/12/18 12:28	07/14/18 19:24	1
PCB-1242	ND		20	12	ug/Kg	☼	07/12/18 12:28	07/14/18 19:24	1
PCB-1248	**1900**		20	15	ug/Kg	☼	07/12/18 12:28	07/14/18 19:24	1
PCB-1254	**1100**		20	13	ug/Kg	☼	07/12/18 12:28	07/14/18 19:24	1
PCB-1260	**210**		20	5.6	ug/Kg	☼	07/12/18 12:28	07/14/18 19:24	1
PCB-1262	ND		20	14	ug/Kg	☼	07/12/18 12:28	07/14/18 19:24	1
PCB-1268	ND		20	9.5	ug/Kg	☼	07/12/18 12:28	07/14/18 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*07/12/18 12:28*	*07/14/18 19:24*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*07/12/18 12:28*	*07/14/18 19:24*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*07/12/18 12:28*	*07/14/18 19:24*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*44 - 114*	*07/12/18 12:28*	*07/14/18 19:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.8**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**85.2**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-003-2-4

Date Collected: 07/11/18 14:05
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-4

Matrix: Solid
Percent Solids: 90.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	07/12/18 12:28	07/14/18 19:44	1
PCB-1221	ND		18	12	ug/Kg	☼	07/12/18 12:28	07/14/18 19:44	1
PCB-1232	ND		18	11	ug/Kg	☼	07/12/18 12:28	07/14/18 19:44	1
PCB-1242	ND		18	11	ug/Kg	☼	07/12/18 12:28	07/14/18 19:44	1
PCB-1248	**430**		18	15	ug/Kg	☼	07/12/18 12:28	07/14/18 19:44	1
PCB-1254	**280**		18	13	ug/Kg	☼	07/12/18 12:28	07/14/18 19:44	1
PCB-1260	**45**		18	5.3	ug/Kg	☼	07/12/18 12:28	07/14/18 19:44	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/18 12:28	07/14/18 19:44	1
PCB-1268	ND		18	9.0	ug/Kg	☼	07/12/18 12:28	07/14/18 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/12/18 12:28*	*07/14/18 19:44*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*07/12/18 12:28*	*07/14/18 19:44*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/12/18 12:28*	*07/14/18 19:44*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*07/12/18 12:28*	*07/14/18 19:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.8**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**90.2**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-004-4-6

Date Collected: 07/11/18 14:10
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-5

Matrix: Solid
Percent Solids: 86.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	07/12/18 12:28	07/14/18 20:04	1
PCB-1221	ND		19	12	ug/Kg	☼	07/12/18 12:28	07/14/18 20:04	1
PCB-1232	ND		19	11	ug/Kg	☼	07/12/18 12:28	07/14/18 20:04	1
PCB-1242	ND		19	12	ug/Kg	☼	07/12/18 12:28	07/14/18 20:04	1
PCB-1248	**110**		19	15	ug/Kg	☼	07/12/18 12:28	07/14/18 20:04	1
PCB-1254	**89**		19	13	ug/Kg	☼	07/12/18 12:28	07/14/18 20:04	1
PCB-1260	ND		19	5.5	ug/Kg	☼	07/12/18 12:28	07/14/18 20:04	1
PCB-1262	ND		19	14	ug/Kg	☼	07/12/18 12:28	07/14/18 20:04	1
PCB-1268	ND		19	9.3	ug/Kg	☼	07/12/18 12:28	07/14/18 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*07/12/18 12:28*	*07/14/18 20:04*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*07/12/18 12:28*	*07/14/18 20:04*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*07/12/18 12:28*	*07/14/18 20:04*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/12/18 12:28*	*07/14/18 20:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.4**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**86.6**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-005-4-6

Date Collected: 07/11/18 14:15
Date Received: 07/12/18 11:08

Lab Sample ID: 180-79670-6

Matrix: Solid
Percent Solids: 92.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.7	ug/Kg	☼	07/12/18 12:28	07/14/18 20:23	1
PCB-1221	ND		17	11	ug/Kg	☼	07/12/18 12:28	07/14/18 20:23	1
PCB-1232	ND		17	10	ug/Kg	☼	07/12/18 12:28	07/14/18 20:23	1
PCB-1242	ND		17	10	ug/Kg	☼	07/12/18 12:28	07/14/18 20:23	1
PCB-1248	**320**		17	14	ug/Kg	☼	07/12/18 12:28	07/14/18 20:23	1
PCB-1254	**450**		17	12	ug/Kg	☼	07/12/18 12:28	07/14/18 20:23	1
PCB-1260	**55**		17	5.0	ug/Kg	☼	07/12/18 12:28	07/14/18 20:23	1
PCB-1262	ND		17	12	ug/Kg	☼	07/12/18 12:28	07/14/18 20:23	1
PCB-1268	ND		17	8.5	ug/Kg	☼	07/12/18 12:28	07/14/18 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/12/18 12:28*	*07/14/18 20:23*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*07/12/18 12:28*	*07/14/18 20:23*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*44 - 114*	*07/12/18 12:28*	*07/14/18 20:23*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*44 - 114*	*07/12/18 12:28*	*07/14/18 20:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**92.5**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-006-4-6

Lab Sample ID: 180-79670-7
Date Collected: 07/11/18 14:20
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 92.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	57	ug/Kg	☼	07/12/18 12:28	07/15/18 13:46	10
PCB-1221	ND		180	110	ug/Kg	☼	07/12/18 12:28	07/15/18 13:46	10
PCB-1232	ND		180	100	ug/Kg	☼	07/12/18 12:28	07/15/18 13:46	10
PCB-1242	ND		180	110	ug/Kg	☼	07/12/18 12:28	07/15/18 13:46	10
PCB-1248	**20000**		180	140	ug/Kg	☼	07/12/18 12:28	07/15/18 13:46	10
PCB-1254	**7300**		180	120	ug/Kg	☼	07/12/18 12:28	07/15/18 13:46	10
PCB-1260	**620**		180	50	ug/Kg	☼	07/12/18 12:28	07/15/18 13:46	10
PCB-1262	ND		180	120	ug/Kg	☼	07/12/18 12:28	07/15/18 13:46	10
PCB-1268	ND		180	86	ug/Kg	☼	07/12/18 12:28	07/15/18 13:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/12/18 12:28*	*07/15/18 13:46*	*10*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*07/12/18 12:28*	*07/15/18 13:46*	*10*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/12/18 12:28*	*07/15/18 13:46*	*10*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/12/18 12:28*	*07/15/18 13:46*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**92.4**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-007-4-6

Lab Sample ID: 180-79670-8
Date Collected: 07/11/18 14:25
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 86.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/12/18 12:28	07/14/18 21:03	1
PCB-1221	ND		19	12	ug/Kg	☼	07/12/18 12:28	07/14/18 21:03	1
PCB-1232	ND		19	11	ug/Kg	☼	07/12/18 12:28	07/14/18 21:03	1
PCB-1242	ND		19	11	ug/Kg	☼	07/12/18 12:28	07/14/18 21:03	1
PCB-1248	**4500**		19	15	ug/Kg	☼	07/12/18 12:28	07/14/18 21:03	1
PCB-1254	**1700**		19	13	ug/Kg	☼	07/12/18 12:28	07/14/18 21:03	1
PCB-1260	**170**		19	5.3	ug/Kg	☼	07/12/18 12:28	07/14/18 21:03	1
PCB-1262	ND		19	13	ug/Kg	☼	07/12/18 12:28	07/14/18 21:03	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/12/18 12:28	07/14/18 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/12/18 12:28*	*07/14/18 21:03*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/12/18 12:28*	*07/14/18 21:03*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/12/18 12:28*	*07/14/18 21:03*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*44 - 114*	*07/12/18 12:28*	*07/14/18 21:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.9**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**86.1**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-008-6-8

Lab Sample ID: 180-79670-9
Date Collected: 07/11/18 14:30
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 86.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	07/12/18 12:28	07/14/18 21:22	1
PCB-1221	ND		19	12	ug/Kg	☼	07/12/18 12:28	07/14/18 21:22	1
PCB-1232	ND		19	11	ug/Kg	☼	07/12/18 12:28	07/14/18 21:22	1
PCB-1242	ND		19	11	ug/Kg	☼	07/12/18 12:28	07/14/18 21:22	1
PCB-1248	**2200**		19	15	ug/Kg	☼	07/12/18 12:28	07/14/18 21:22	1
PCB-1254	**3700**		19	13	ug/Kg	☼	07/12/18 12:28	07/14/18 21:22	1
PCB-1260	**390**	**p**	19	5.4	ug/Kg	☼	07/12/18 12:28	07/14/18 21:22	1
PCB-1262	ND		19	13	ug/Kg	☼	07/12/18 12:28	07/14/18 21:22	1
PCB-1268	ND		19	9.3	ug/Kg	☼	07/12/18 12:28	07/14/18 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*	*07/12/18 12:28*	*07/14/18 21:22*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*07/12/18 12:28*	*07/14/18 21:22*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*44 - 114*	*07/12/18 12:28*	*07/14/18 21:22*	*1*
Tetrachloro-m-xylene (Surr)	*57*		*44 - 114*	*07/12/18 12:28*	*07/14/18 21:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**86.5**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-009-6-8

Lab Sample ID: 180-79670-10
Date Collected: 07/11/18 14:40
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 86.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		94	31	ug/Kg	☼	07/12/18 12:28	07/15/18 14:06	5
PCB-1221	ND		94	61	ug/Kg	☼	07/12/18 12:28	07/15/18 14:06	5
PCB-1232	ND		94	56	ug/Kg	☼	07/12/18 12:28	07/15/18 14:06	5
PCB-1242	ND		94	56	ug/Kg	☼	07/12/18 12:28	07/15/18 14:06	5
PCB-1248	**12000**		94	75	ug/Kg	☼	07/12/18 12:28	07/15/18 14:06	5
PCB-1254	**4600**		94	64	ug/Kg	☼	07/12/18 12:28	07/15/18 14:06	5
PCB-1260	**370**		94	27	ug/Kg	☼	07/12/18 12:28	07/15/18 14:06	5
PCB-1262	ND		94	66	ug/Kg	☼	07/12/18 12:28	07/15/18 14:06	5
PCB-1268	ND		94	46	ug/Kg	☼	07/12/18 12:28	07/15/18 14:06	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*07/12/18 12:28*	*07/15/18 14:06*	*5*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*07/12/18 12:28*	*07/15/18 14:06*	*5*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*07/12/18 12:28*	*07/15/18 14:06*	*5*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*07/12/18 12:28*	*07/15/18 14:06*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.2**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**86.8**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-010-8-10

Lab Sample ID: 180-79670-11

Date Collected: 07/11/18 14:50
Matrix: Solid
Date Received: 07/12/18 11:08
Percent Solids: 87.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/12/18 12:28	07/14/18 22:02	1
PCB-1221	ND		19	12	ug/Kg	☼	07/12/18 12:28	07/14/18 22:02	1
PCB-1232	ND		19	11	ug/Kg	☼	07/12/18 12:28	07/14/18 22:02	1
PCB-1242	ND		19	11	ug/Kg	☼	07/12/18 12:28	07/14/18 22:02	1
PCB-1248	**150**		19	15	ug/Kg	☼	07/12/18 12:28	07/14/18 22:02	1
PCB-1254	**86**		19	13	ug/Kg	☼	07/12/18 12:28	07/14/18 22:02	1
PCB-1260	ND		19	5.4	ug/Kg	☼	07/12/18 12:28	07/14/18 22:02	1
PCB-1262	ND		19	13	ug/Kg	☼	07/12/18 12:28	07/14/18 22:02	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/12/18 12:28	07/14/18 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*07/12/18 12:28*	*07/14/18 22:02*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*33 - 137*	*07/12/18 12:28*	*07/14/18 22:02*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/12/18 12:28*	*07/14/18 22:02*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*07/12/18 12:28*	*07/14/18 22:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.3**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**87.7**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-011-10-12

Lab Sample ID: 180-79670-12

Date Collected: 07/11/18 14:55
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 83.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1 F2	400	130	ug/Kg	☼	07/12/18 12:28	07/15/18 14:26	20
PCB-1221	ND		400	260	ug/Kg	☼	07/12/18 12:28	07/15/18 14:26	20
PCB-1232	ND		400	240	ug/Kg	☼	07/12/18 12:28	07/15/18 14:26	20
PCB-1242	ND		400	240	ug/Kg	☼	07/12/18 12:28	07/15/18 14:26	20
PCB-1248	**28000**		400	310	ug/Kg	☼	07/12/18 12:28	07/15/18 14:26	20
PCB-1254	**11000**		400	270	ug/Kg	☼	07/12/18 12:28	07/15/18 14:26	20
PCB-1260	**1000**	**F2**	400	110	ug/Kg	☼	07/12/18 12:28	07/15/18 14:26	20
PCB-1262	ND		400	280	ug/Kg	☼	07/12/18 12:28	07/15/18 14:26	20
PCB-1268	ND		400	190	ug/Kg	☼	07/12/18 12:28	07/15/18 14:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/12/18 12:28*	*07/15/18 14:26*	*20*
DCB Decachlorobiphenyl (Surr)	*61*		*33 - 137*	*07/12/18 12:28*	*07/15/18 14:26*	*20*
Tetrachloro-m-xylene (Surr)	*49*		*44 - 114*	*07/12/18 12:28*	*07/15/18 14:26*	*20*
Tetrachloro-m-xylene (Surr)	*53*		*44 - 114*	*07/12/18 12:28*	*07/15/18 14:26*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.7**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**83.3**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-012-2-4

Lab Sample ID: 180-79670-13
Date Collected: 07/11/18 15:15
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 93.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.8	ug/Kg	☼	07/12/18 12:28	07/15/18 01:18	1
PCB-1221	ND		18	12	ug/Kg	☼	07/12/18 12:28	07/15/18 01:18	1
PCB-1232	ND		18	11	ug/Kg	☼	07/12/18 12:28	07/15/18 01:18	1
PCB-1242	ND		18	11	ug/Kg	☼	07/12/18 12:28	07/15/18 01:18	1
PCB-1248	**1300**		18	14	ug/Kg	☼	07/12/18 12:28	07/15/18 01:18	1
PCB-1254	**580**		18	12	ug/Kg	☼	07/12/18 12:28	07/15/18 01:18	1
PCB-1260	**63**		18	5.1	ug/Kg	☼	07/12/18 12:28	07/15/18 01:18	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/18 12:28	07/15/18 01:18	1
PCB-1268	ND		18	8.7	ug/Kg	☼	07/12/18 12:28	07/15/18 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*	*07/12/18 12:28*	*07/15/18 01:18*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*33 - 137*	*07/12/18 12:28*	*07/15/18 01:18*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/12/18 12:28*	*07/15/18 01:18*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*44 - 114*	*07/12/18 12:28*	*07/15/18 01:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.8**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**93.2**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-013-2-4

Lab Sample ID: 180-79670-14
Date Collected: 07/11/18 15:25
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 97.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg	☼	07/12/18 12:28	07/15/18 01:38	1
PCB-1221	ND		17	11	ug/Kg	☼	07/12/18 12:28	07/15/18 01:38	1
PCB-1232	ND		17	9.9	ug/Kg	☼	07/12/18 12:28	07/15/18 01:38	1
PCB-1242	ND		17	10	ug/Kg	☼	07/12/18 12:28	07/15/18 01:38	1
PCB-1248	**2500**		17	13	ug/Kg	☼	07/12/18 12:28	07/15/18 01:38	1
PCB-1254	**1600**		17	11	ug/Kg	☼	07/12/18 12:28	07/15/18 01:38	1
PCB-1260	**280**		17	4.8	ug/Kg	☼	07/12/18 12:28	07/15/18 01:38	1
PCB-1262	ND		17	12	ug/Kg	☼	07/12/18 12:28	07/15/18 01:38	1
PCB-1268	ND		17	8.1	ug/Kg	☼	07/12/18 12:28	07/15/18 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*07/12/18 12:28*	*07/15/18 01:38*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/12/18 12:28*	*07/15/18 01:38*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/12/18 12:28*	*07/15/18 01:38*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*44 - 114*	*07/12/18 12:28*	*07/15/18 01:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.8**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**97.2**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-014-0-2

Date Collected: 07/11/18 15:25
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-15

Matrix: Solid
Percent Solids: 98.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.5	ug/Kg	☼	07/12/18 12:28	07/15/18 01:58	1
PCB-1221	ND		17	11	ug/Kg	☼	07/12/18 12:28	07/15/18 01:58	1
PCB-1232	ND		17	10	ug/Kg	☼	07/12/18 12:28	07/15/18 01:58	1
PCB-1242	ND		17	10	ug/Kg	☼	07/12/18 12:28	07/15/18 01:58	1
PCB-1248	ND		17	13	ug/Kg	☼	07/12/18 12:28	07/15/18 01:58	1
PCB-1254	ND		17	12	ug/Kg	☼	07/12/18 12:28	07/15/18 01:58	1
PCB-1260	ND		17	4.8	ug/Kg	☼	07/12/18 12:28	07/15/18 01:58	1
PCB-1262	ND		17	12	ug/Kg	☼	07/12/18 12:28	07/15/18 01:58	1
PCB-1268	ND		17	8.2	ug/Kg	☼	07/12/18 12:28	07/15/18 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/12/18 12:28*	*07/15/18 01:58*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*33 - 137*	*07/12/18 12:28*	*07/15/18 01:58*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/12/18 12:28*	*07/15/18 01:58*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*07/12/18 12:28*	*07/15/18 01:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**1.3**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**98.7**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-015-0-2

Date Collected: 07/11/18 15:30
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-16

Matrix: Solid
Percent Solids: 97.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.5	ug/Kg	☼	07/12/18 12:28	07/15/18 02:17	1
PCB-1221	ND		17	11	ug/Kg	☼	07/12/18 12:28	07/15/18 02:17	1
PCB-1232	ND		17	10	ug/Kg	☼	07/12/18 12:28	07/15/18 02:17	1
PCB-1242	ND		17	10	ug/Kg	☼	07/12/18 12:28	07/15/18 02:17	1
PCB-1248	**34**		17	13	ug/Kg	☼	07/12/18 12:28	07/15/18 02:17	1
PCB-1254	**20**		17	11	ug/Kg	☼	07/12/18 12:28	07/15/18 02:17	1
PCB-1260	ND		17	4.8	ug/Kg	☼	07/12/18 12:28	07/15/18 02:17	1
PCB-1262	ND		17	12	ug/Kg	☼	07/12/18 12:28	07/15/18 02:17	1
PCB-1268	ND		17	8.1	ug/Kg	☼	07/12/18 12:28	07/15/18 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/12/18 12:28*	*07/15/18 02:17*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*07/12/18 12:28*	*07/15/18 02:17*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/12/18 12:28*	*07/15/18 02:17*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/12/18 12:28*	*07/15/18 02:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.7**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**97.3**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: SW-016-2-4

Lab Sample ID: 180-79670-17
Date Collected: 07/11/18 15:30
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 91.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/12/18 12:28	07/15/18 02:37	1
PCB-1221	ND		18	12	ug/Kg	☼	07/12/18 12:28	07/15/18 02:37	1
PCB-1232	ND		18	11	ug/Kg	☼	07/12/18 12:28	07/15/18 02:37	1
PCB-1242	ND		18	11	ug/Kg	☼	07/12/18 12:28	07/15/18 02:37	1
PCB-1248	**4400**		18	14	ug/Kg	☼	07/12/18 12:28	07/15/18 02:37	1
PCB-1254	**2400**		18	12	ug/Kg	☼	07/12/18 12:28	07/15/18 02:37	1
PCB-1260	**410**		18	5.2	ug/Kg	☼	07/12/18 12:28	07/15/18 02:37	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/18 12:28	07/15/18 02:37	1
PCB-1268	ND		18	8.8	ug/Kg	☼	07/12/18 12:28	07/15/18 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/12/18 12:28*	*07/15/18 02:37*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*33 - 137*	*07/12/18 12:28*	*07/15/18 02:37*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/12/18 12:28*	*07/15/18 02:37*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/12/18 12:28*	*07/15/18 02:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**91.1**		0.1	0.1	%			07/12/18 11:55	1

Client Sample ID: DUP1

Lab Sample ID: 180-79670-18
Date Collected: 07/11/18 00:00
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 88.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/12/18 12:28	07/15/18 02:57	1
PCB-1221	ND		19	12	ug/Kg	☼	07/12/18 12:28	07/15/18 02:57	1
PCB-1232	ND		19	11	ug/Kg	☼	07/12/18 12:28	07/15/18 02:57	1
PCB-1242	ND		19	11	ug/Kg	☼	07/12/18 12:28	07/15/18 02:57	1
PCB-1248	**500**		19	15	ug/Kg	☼	07/12/18 12:28	07/15/18 02:57	1
PCB-1254	**400**		19	13	ug/Kg	☼	07/12/18 12:28	07/15/18 02:57	1
PCB-1260	**44**		19	5.3	ug/Kg	☼	07/12/18 12:28	07/15/18 02:57	1
PCB-1262	ND		19	13	ug/Kg	☼	07/12/18 12:28	07/15/18 02:57	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/12/18 12:28	07/15/18 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*07/12/18 12:28*	*07/15/18 02:57*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/12/18 12:28*	*07/15/18 02:57*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*07/12/18 12:28*	*07/15/18 02:57*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*44 - 114*	*07/12/18 12:28*	*07/15/18 02:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**88.3**		0.1	0.1	%			07/12/18 11:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79670-1

Client Sample ID: DUP2
Date Collected: 07/11/18 00:00
Date Received: 07/12/18 09:15

Lab Sample ID: 180-79670-19
Matrix: Solid
Percent Solids: 83.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	07/12/18 12:28	07/15/18 03:16	1
PCB-1221	ND		20	13	ug/Kg	☼	07/12/18 12:28	07/15/18 03:16	1
PCB-1232	ND		20	12	ug/Kg	☼	07/12/18 12:28	07/15/18 03:16	1
PCB-1242	ND		20	12	ug/Kg	☼	07/12/18 12:28	07/15/18 03:16	1
PCB-1248	**1500**		20	16	ug/Kg	☼	07/12/18 12:28	07/15/18 03:16	1
PCB-1254	**660**		20	13	ug/Kg	☼	07/12/18 12:28	07/15/18 03:16	1
PCB-1260	**55**		20	5.6	ug/Kg	☼	07/12/18 12:28	07/15/18 03:16	1
PCB-1262	ND		20	14	ug/Kg	☼	07/12/18 12:28	07/15/18 03:16	1
PCB-1268	ND		20	9.5	ug/Kg	☼	07/12/18 12:28	07/15/18 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/12/18 12:28*	*07/15/18 03:16*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*07/12/18 12:28*	*07/15/18 03:16*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/12/18 12:28*	*07/15/18 03:16*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*07/12/18 12:28*	*07/15/18 03:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.1**		0.1	0.1	%			07/12/18 11:55	1
Percent Solids	**83.9**		0.1	0.1	%			07/12/18 11:55	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-250387/1-C
Matrix: Solid
Analysis Batch: 250548

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/12/18 12:28	07/14/18 18:26	1
PCB-1221	ND		17	11	ug/Kg		07/12/18 12:28	07/14/18 18:26	1
PCB-1232	ND		17	9.9	ug/Kg		07/12/18 12:28	07/14/18 18:26	1
PCB-1242	ND		17	10	ug/Kg		07/12/18 12:28	07/14/18 18:26	1
PCB-1248	ND		17	13	ug/Kg		07/12/18 12:28	07/14/18 18:26	1
PCB-1254	ND		17	11	ug/Kg		07/12/18 12:28	07/14/18 18:26	1
PCB-1260	ND		17	4.7	ug/Kg		07/12/18 12:28	07/14/18 18:26	1
PCB-1262	ND		17	12	ug/Kg		07/12/18 12:28	07/14/18 18:26	1
PCB-1268	ND		17	8.1	ug/Kg		07/12/18 12:28	07/14/18 18:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/12/18 12:28*	*07/14/18 18:26*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*07/12/18 12:28*	*07/14/18 18:26*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*07/12/18 12:28*	*07/14/18 18:26*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/12/18 12:28*	*07/14/18 18:26*	*1*

Lab Sample ID: LCS 180-250387/2-C
Matrix: Solid
Analysis Batch: 250548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250387

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1120		ug/Kg		84	46 - 122		
PCB-1260			1330	1080		ug/Kg		81	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*

Lab Sample ID: 180-79670-12 MS
Matrix: Solid
Analysis Batch: 250582

Client Sample ID: SW-011-10-12
Prep Type: Total/NA
Prep Batch: 250387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND	F1 F2	1590	13000	F1	ug/Kg	☼	820	46 - 122		
PCB-1260	1000	F2	1590	2540		ug/Kg	☼	97	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*113*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-79670-12 MSD
Matrix: Solid
Analysis Batch: 250582

Client Sample ID: SW-011-10-12
Prep Type: Total/NA
Prep Batch: 250387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1 F2	1590	9520	F1 F2	ug/Kg	☼	599	46 - 122	31	23
PCB-1260	1000	F2	1590	1980	F2	ug/Kg	☼	62	51 - 119	25	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*114*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*

Method: 2540G - SM 2540G

Lab Sample ID: 180-79670-1 DU
Matrix: Solid
Analysis Batch: 250373

Client Sample ID: SSHS-B1257-SUB-6-8-BOT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.2			9.4		%				2	20
Percent Solids	90.8			90.6		%				0.2	20

Lab Sample ID: 180-79670-12 DU
Matrix: Solid
Analysis Batch: 250373

Client Sample ID: SW-011-10-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16.7			15.8		%				5	20
Percent Solids	83.3			84.2		%				1	20

GC Semi VOA

Prep Batch: 250387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79670-1	SSHS-B1257-SUB-6-8-BOT	Total/NA	Solid	3541	
180-79670-2	SW-001-0-2	Total/NA	Solid	3541	
180-79670-3	SW-002-2-4	Total/NA	Solid	3541	
180-79670-4	SW-003-2-4	Total/NA	Solid	3541	
180-79670-5	SW-004-4-6	Total/NA	Solid	3541	
180-79670-6	SW-005-4-6	Total/NA	Solid	3541	
180-79670-7	SW-006-4-6	Total/NA	Solid	3541	
180-79670-8	SW-007-4-6	Total/NA	Solid	3541	
180-79670-9	SW-008-6-8	Total/NA	Solid	3541	
180-79670-10	SW-009-6-8	Total/NA	Solid	3541	
180-79670-11	SW-010-8-10	Total/NA	Solid	3541	
180-79670-12	SW-011-10-12	Total/NA	Solid	3541	
180-79670-13	SW-012-2-4	Total/NA	Solid	3541	
180-79670-14	SW-013-2-4	Total/NA	Solid	3541	
180-79670-15	SW-014-0-2	Total/NA	Solid	3541	
180-79670-16	SW-015-0-2	Total/NA	Solid	3541	
180-79670-17	SW-016-2-4	Total/NA	Solid	3541	
180-79670-18	DUP1	Total/NA	Solid	3541	
180-79670-19	DUP2	Total/NA	Solid	3541	
MB 180-250387/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-250387/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-79670-12 MS	SW-011-10-12	Total/NA	Solid	3541	
180-79670-12 MSD	SW-011-10-12	Total/NA	Solid	3541	

Cleanup Batch: 250505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79670-1	SSHS-B1257-SUB-6-8-BOT	Total/NA	Solid	3665A	250387
180-79670-2	SW-001-0-2	Total/NA	Solid	3665A	250387
180-79670-3	SW-002-2-4	Total/NA	Solid	3665A	250387
180-79670-4	SW-003-2-4	Total/NA	Solid	3665A	250387
180-79670-5	SW-004-4-6	Total/NA	Solid	3665A	250387
180-79670-6	SW-005-4-6	Total/NA	Solid	3665A	250387
180-79670-7	SW-006-4-6	Total/NA	Solid	3665A	250387
180-79670-8	SW-007-4-6	Total/NA	Solid	3665A	250387
180-79670-9	SW-008-6-8	Total/NA	Solid	3665A	250387
180-79670-10	SW-009-6-8	Total/NA	Solid	3665A	250387
180-79670-11	SW-010-8-10	Total/NA	Solid	3665A	250387
180-79670-12	SW-011-10-12	Total/NA	Solid	3665A	250387
180-79670-13	SW-012-2-4	Total/NA	Solid	3665A	250387
180-79670-14	SW-013-2-4	Total/NA	Solid	3665A	250387
180-79670-15	SW-014-0-2	Total/NA	Solid	3665A	250387
180-79670-16	SW-015-0-2	Total/NA	Solid	3665A	250387
180-79670-17	SW-016-2-4	Total/NA	Solid	3665A	250387
180-79670-18	DUP1	Total/NA	Solid	3665A	250387
180-79670-19	DUP2	Total/NA	Solid	3665A	250387
MB 180-250387/1-C	Method Blank	Total/NA	Solid	3665A	250387
LCS 180-250387/2-C	Lab Control Sample	Total/NA	Solid	3665A	250387
180-79670-12 MS	SW-011-10-12	Total/NA	Solid	3665A	250387
180-79670-12 MSD	SW-011-10-12	Total/NA	Solid	3665A	250387

GC Semi VOA (Continued)

Cleanup Batch: 250507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79670-1	SSHS-B1257-SUB-6-8-BOT	Total/NA	Solid	3660B	250505
180-79670-2	SW-001-0-2	Total/NA	Solid	3660B	250505
180-79670-3	SW-002-2-4	Total/NA	Solid	3660B	250505
180-79670-4	SW-003-2-4	Total/NA	Solid	3660B	250505
180-79670-5	SW-004-4-6	Total/NA	Solid	3660B	250505
180-79670-6	SW-005-4-6	Total/NA	Solid	3660B	250505
180-79670-7	SW-006-4-6	Total/NA	Solid	3660B	250505
180-79670-8	SW-007-4-6	Total/NA	Solid	3660B	250505
180-79670-9	SW-008-6-8	Total/NA	Solid	3660B	250505
180-79670-10	SW-009-6-8	Total/NA	Solid	3660B	250505
180-79670-11	SW-010-8-10	Total/NA	Solid	3660B	250505
180-79670-12	SW-011-10-12	Total/NA	Solid	3660B	250505
180-79670-13	SW-012-2-4	Total/NA	Solid	3660B	250505
180-79670-14	SW-013-2-4	Total/NA	Solid	3660B	250505
180-79670-15	SW-014-0-2	Total/NA	Solid	3660B	250505
180-79670-16	SW-015-0-2	Total/NA	Solid	3660B	250505
180-79670-17	SW-016-2-4	Total/NA	Solid	3660B	250505
180-79670-18	DUP1	Total/NA	Solid	3660B	250505
180-79670-19	DUP2	Total/NA	Solid	3660B	250505
MB 180-250387/1-C	Method Blank	Total/NA	Solid	3660B	250505
LCS 180-250387/2-C	Lab Control Sample	Total/NA	Solid	3660B	250505
180-79670-12 MS	SW-011-10-12	Total/NA	Solid	3660B	250505
180-79670-12 MSD	SW-011-10-12	Total/NA	Solid	3660B	250505

Analysis Batch: 250548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79670-2	SW-001-0-2	Total/NA	Solid	EPA 8082A	250507
180-79670-3	SW-002-2-4	Total/NA	Solid	EPA 8082A	250507
180-79670-4	SW-003-2-4	Total/NA	Solid	EPA 8082A	250507
180-79670-5	SW-004-4-6	Total/NA	Solid	EPA 8082A	250507
180-79670-6	SW-005-4-6	Total/NA	Solid	EPA 8082A	250507
180-79670-8	SW-007-4-6	Total/NA	Solid	EPA 8082A	250507
180-79670-9	SW-008-6-8	Total/NA	Solid	EPA 8082A	250507
180-79670-11	SW-010-8-10	Total/NA	Solid	EPA 8082A	250507
180-79670-13	SW-012-2-4	Total/NA	Solid	EPA 8082A	250507
180-79670-14	SW-013-2-4	Total/NA	Solid	EPA 8082A	250507
180-79670-15	SW-014-0-2	Total/NA	Solid	EPA 8082A	250507
180-79670-16	SW-015-0-2	Total/NA	Solid	EPA 8082A	250507
180-79670-17	SW-016-2-4	Total/NA	Solid	EPA 8082A	250507
180-79670-18	DUP1	Total/NA	Solid	EPA 8082A	250507
180-79670-19	DUP2	Total/NA	Solid	EPA 8082A	250507
MB 180-250387/1-C	Method Blank	Total/NA	Solid	EPA 8082A	250507
LCS 180-250387/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	250507

Analysis Batch: 250582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79670-1	SSHS-B1257-SUB-6-8-BOT	Total/NA	Solid	EPA 8082A	250507
180-79670-7	SW-006-4-6	Total/NA	Solid	EPA 8082A	250507
180-79670-10	SW-009-6-8	Total/NA	Solid	EPA 8082A	250507
180-79670-12	SW-011-10-12	Total/NA	Solid	EPA 8082A	250507
180-79670-12 MS	SW-011-10-12	Total/NA	Solid	EPA 8082A	250507

GC Semi VOA (Continued)

Analysis Batch: 250582 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79670-12 MSD	SW-011-10-12	Total/NA	Solid	EPA 8082A	250507

General Chemistry

Analysis Batch: 250373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79670-1	SSHS-B1257-SUB-6-8-BOT	Total/NA	Solid	2540G	
180-79670-2	SW-001-0-2	Total/NA	Solid	2540G	
180-79670-3	SW-002-2-4	Total/NA	Solid	2540G	
180-79670-4	SW-003-2-4	Total/NA	Solid	2540G	
180-79670-5	SW-004-4-6	Total/NA	Solid	2540G	
180-79670-6	SW-005-4-6	Total/NA	Solid	2540G	
180-79670-7	SW-006-4-6	Total/NA	Solid	2540G	
180-79670-8	SW-007-4-6	Total/NA	Solid	2540G	
180-79670-9	SW-008-6-8	Total/NA	Solid	2540G	
180-79670-10	SW-009-6-8	Total/NA	Solid	2540G	
180-79670-11	SW-010-8-10	Total/NA	Solid	2540G	
180-79670-12	SW-011-10-12	Total/NA	Solid	2540G	
180-79670-13	SW-012-2-4	Total/NA	Solid	2540G	
180-79670-14	SW-013-2-4	Total/NA	Solid	2540G	
180-79670-15	SW-014-0-2	Total/NA	Solid	2540G	
180-79670-16	SW-015-0-2	Total/NA	Solid	2540G	
180-79670-17	SW-016-2-4	Total/NA	Solid	2540G	
180-79670-18	DUP1	Total/NA	Solid	2540G	
180-79670-19	DUP2	Total/NA	Solid	2540G	
180-79670-1 DU	SSHS-B1257-SUB-6-8-BOT	Total/NA	Solid	2540G	
180-79670-12 DU	SW-011-10-12	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matthew Schallinger, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 1 of
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:

Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:
City: Columbia	TAT Requested (days): 1 Day turnaround.
State, Zip: MD 21044	
Phone:	PO #: MN0832D
Email: akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:
Site: Former Sperry Remington Site - North	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A, PCBs	Total Number of containers	Special Instructions/Note
			Preservation Code:		X	X	N	X	
SHS-0257-SOB-68-Bot	7/10/18	1500	G	Solid	N	N	X	2	
SW-001-0-2	7/11/18	1355	G	Solid	N	N	X	2	
SW-002-2-4	7/11/18	1400	G	Solid	N	N	X	2	
SW-003-2-4	7/11/18	1405	G	Solid	N	N	X	2	
SW-004-4-6	7/11/18	1410	G	Solid	N	N	X	2	
SW-005-4-6	7/11/18	1415	G	Solid	N	N	X	2	
SW-006-4-6	7/11/18	1420	G	Solid	N	N	X	2	
SW-007-4-6	7/11/18	1425	G	Solid	N	N	X	2	
SW-008-6-8	7/11/18	1430	G	Solid	N	N	X	2	
SW-009-6-8	7/11/18	1440	G	Solid	N	N	X	2	
SW-010-8-10	7/11/18	1450	G	~~Solid~~ Water	N	N	X	2	

180-79670 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 7/11/18 1900	Company: Geosyntec	Received by: FedEx	Date/Time: 7/11/18 1900	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/12/18 0915	Company TAPIT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matthew Schallinger, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 1 of
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:

Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:
City: Columbia	TAT Requested (days): 1 Day turnaround.
State, Zip: MD 21044	
Phone:	PO #: MN0832D
Email: akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:
Site: Former Sperry Remington Site - North	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A, PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SW-011-10-12	7/11/18	1455	G	Solid	N	N	X	2	
SW-012-2-4	7/11/18	1515	G	Solid	N	N	X	2	
SW-013-2-4	7/11/18	1525	G	Solid	N	N	X	2	
SW-014-0-2	7/11/18	1525	G	Solid	N	N	X	2	
SW-015-0-2	7/11/18	1530	G	Solid	N	N	X	2	
SW-016-2-4	7/11/18	1530	G	Solid	N	N	X	2	
DUP 1	7/11/18	—	G	Solid	N	N	X	2	
DUP 2	7/11/18	—	G	Solid	N	N	X	2	
SW-011-10-12-MS/MSD	7/11/18	1455	G	Solid	N	Y	X	4	
				Solid	N				
				Water	N				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 7/11/18 1900	Company: Geosyntec	Received by:	Date/Time: 7/12/18 1900	Company: TA Pitt
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/16/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79670-1

Login Number: 79670
List Number: 1
Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-79745-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/20/2018 3:15:26 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

Job ID: 180-79745-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-79745-1

Comments
Notation was made to the COC with regards to changes in the analyses.

Receipt
The samples were received on 7/13/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 3.7º C.

GC/MS Semi VOA
Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: SSHS-P2 (180-79745-1) and its matrix spikes, P1-10-12 (180-79745-2), EBSW-10-12 (180-79745-4), and SSHS-CS2 (180-79745-13). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) of sample SSHS-P2 (180-79745-1) had several recoveries and RPD between the spikes for pentachlorophenol outside of the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

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

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-P2 (180-79745-1), P1-10-12 (180-79745-2), EBSW-10-12 (180-79745-4), SW-018-4-6 (180-79745-6), SW-019-6-8 (180-79745-7), SW-021-4-6 (180-79745-9), SSHS-B1408-6-8 (180-79745-11), and SSHS-CS1 (180-79745-12). Samples SSHS-P2 (180-79745-1) and P1-10-12 (180-79745-2) had the surrogates diluted out. Elevated reporting limits (RLs) are provided.

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

Metals
Method(s) 6010C: The following sample was diluted to bring the concentration of nickel within the linear range of the instrument: EBSW-10-12 (180-79745-4). Elevated reporting limits (RLs) are provided.

Method(s) 7471B: The following sample was diluted to bring the concentration of mercury to within the instrument's calibration range: P1-10-12 (180-79745-2). Elevated reporting limits (RLs) are provided.

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

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

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-79745-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
EPA 8270D	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-79745-1	SSHS-P2	Solid	07/12/18 16:00	07/13/18 09:15
180-79745-2	P1-10-12	Solid	07/12/18 09:50	07/13/18 09:15
180-79745-3	NBSW-10-12	Solid	07/12/18 10:10	07/13/18 09:15
180-79745-4	EBSW-10-12	Solid	07/12/18 10:00	07/13/18 09:15
180-79745-5	SW-017-0-2	Solid	07/12/18 09:45	07/13/18 09:15
180-79745-6	SW-018-4-6	Solid	07/12/18 10:00	07/13/18 09:15
180-79745-7	SW-019-6-8	Solid	07/12/18 10:05	07/13/18 09:15
180-79745-8	SW-020-6-8	Solid	07/12/18 10:10	07/13/18 09:15
180-79745-9	SW-021-4-6	Solid	07/12/18 10:10	07/13/18 09:15
180-79745-10	SSHS-B1409-6-8	Solid	07/12/18 14:30	07/13/18 09:15
180-79745-11	SSHS-B1408-6-8	Solid	07/12/18 14:20	07/13/18 09:15
180-79745-12	SSHS-CS1	Solid	07/12/18 16:00	07/13/18 09:15
180-79745-13	SSHS-CS2	Solid	07/12/18 16:00	07/13/18 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

Method	Method Description	Protocol	Laboratory
EPA 8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
EPA 6010C	Metals (ICP)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3050B	Preparation, Metals	SW846	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

Client Sample ID: SSHS-P2

Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-P2

Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-1

Matrix: Solid
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	5.0 mL	250696	07/16/18 15:33	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D		3	1 mL	1 mL	250873	07/18/18 17:03	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		40	1 mL	1.0 mL	250592	07/16/18 17:44	CMR	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	250685	07/16/18 13:55	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			250845	07/17/18 10:14	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	250659	07/16/18 11:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			250783	07/17/18 11:37	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: P1-10-12

Date Collected: 07/12/18 09:50
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: P1-10-12

Date Collected: 07/12/18 09:50
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-2

Matrix: Solid
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	5.0 mL	250696	07/16/18 15:33	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D		10	1 mL	1 mL	250873	07/18/18 18:21	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.1 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		40	1 mL	1.0 mL	250592	07/16/18 18:04	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

Client Sample ID: P1-10-12

Date Collected: 07/12/18 09:50
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-2

Matrix: Solid
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.99 g	100 mL	250685	07/16/18 13:55	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			250845	07/17/18 10:20	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.64 g	100 mL	250659	07/16/18 11:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		10			250783	07/17/18 12:22	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: NBSW-10-12

Date Collected: 07/12/18 10:10
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: NBSW-10-12

Date Collected: 07/12/18 10:10
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-3

Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	5.0 mL	250696	07/16/18 15:33	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D		1	1 mL	1 mL	250873	07/18/18 18:47	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.3 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250592	07/16/18 13:28	CMR	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	250685	07/16/18 13:55	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			250845	07/17/18 10:25	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.68 g	100 mL	250659	07/16/18 11:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			250783	07/17/18 11:41	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: EBSW-10-12

Date Collected: 07/12/18 10:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: EBSW-10-12

Lab Sample ID: 180-79745-4
Date Collected: 07/12/18 10:00
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	5.0 mL	250696	07/16/18 15:33	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D		5	1 mL	1 mL	250873	07/18/18 19:13	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		5			250592	07/16/18 18:24	CMR	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.00 g	100 mL	250685	07/16/18 13:55	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			250845	07/17/18 10:30	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	3050B			1.00 g	100 mL	250685	07/16/18 13:55	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		2			250845	07/17/18 12:29	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.71 g	100 mL	250659	07/16/18 11:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			250783	07/17/18 11:42	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: SW-017-0-2

Lab Sample ID: 180-79745-5
Date Collected: 07/12/18 09:45
Matrix: Solid
Date Received: 07/13/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-017-0-2

Lab Sample ID: 180-79745-5
Date Collected: 07/12/18 09:45
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250592	07/16/18 14:07	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-018-4-6

Lab Sample ID: 180-79745-6
Date Collected: 07/12/18 10:00
Matrix: Solid
Date Received: 07/13/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-018-4-6

Lab Sample ID: 180-79745-6
Date Collected: 07/12/18 10:00
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		20			250592	07/16/18 18:43	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-019-6-8

Lab Sample ID: 180-79745-7
Date Collected: 07/12/18 10:05
Matrix: Solid
Date Received: 07/13/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-019-6-8

Lab Sample ID: 180-79745-7
Date Collected: 07/12/18 10:05
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		20			250592	07/16/18 19:23	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SW-020-6-8

Lab Sample ID: 180-79745-8
Date Collected: 07/12/18 10:10
Matrix: Solid
Date Received: 07/13/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-020-6-8

Lab Sample ID: 180-79745-8
Date Collected: 07/12/18 10:10
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250592	07/16/18 15:07	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

Client Sample ID: SW-021-4-6
Date Collected: 07/12/18 10:10
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SW-021-4-6
Date Collected: 07/12/18 10:10
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-9
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		20			250592	07/16/18 20:02	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B1409-6-8
Date Collected: 07/12/18 14:30
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1409-6-8
Date Collected: 07/12/18 14:30
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-10
Matrix: Solid
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250592	07/16/18 15:46	CMR	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.96 g	100 mL	250685	07/16/18 13:55	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			250845	07/17/18 10:35	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.68 g	100 mL	250659	07/16/18 11:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			250783	07/17/18 11:44	RJR	TAL PIT
	Instrument ID: HGZ									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

Client Sample ID: SSHS-B1408-6-8
Date Collected: 07/12/18 14:20
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1408-6-8
Date Collected: 07/12/18 14:20
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-11
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		20			250592	07/16/18 20:41	CMR	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.97 g	100 mL	250685	07/16/18 13:55	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			250845	07/17/18 10:41	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.73 g	100 mL	250659	07/16/18 11:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			250783	07/17/18 11:45	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: SSHS-CS1
Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250636	07/16/18 09:11	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-CS1
Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-12
Matrix: Solid
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	5.0 mL	250696	07/16/18 15:33	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D		1	1 mL	1 mL	250873	07/18/18 19:39	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		20			250592	07/16/18 21:01	CMR	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.02 g	100 mL	250685	07/16/18 13:55	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			250845	07/17/18 10:46	RJG	TAL PIT
	Instrument ID: C									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

Client Sample ID: SSHS-CS1

Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-12

Matrix: Solid
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.72 g	100 mL	250659	07/16/18 11:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			250783	07/17/18 11:46	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: SSHS-CS2

Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			250735	07/17/18 08:20	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-CS2

Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-13

Matrix: Solid
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	5.0 mL	250696	07/16/18 15:33	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D		5	1 mL	1 mL	250873	07/18/18 20:05	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.1 g	20.0 mL	250578	07/14/18 15:24	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	250616	07/16/18 06:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	250617	07/16/18 06:37	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			250592	07/16/18 16:45	CMR	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.97 g	100 mL	250685	07/16/18 13:55	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			250845	07/17/18 11:01	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	250659	07/16/18 11:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			250783	07/17/18 11:47	RJR	TAL PIT
	Instrument ID: HGZ									

Laboratory References:

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

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

Batch Type: Prep

KA = Kayla Kalamasz

MAL = Michael Lonzo

RJR = Ron Rosenbaum

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

CMR = Carl Reagle

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: SSHS-P2
Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-1
Matrix: Solid
Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		210	61	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Acenaphthylene	**51**	**J**	210	46	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Acetophenone	ND		2100	57	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Anthracene	**58**	**J**	210	55	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Atrazine	ND		2100	460	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Benzaldehyde	ND		2100	130	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Benzo[a]anthracene	**420**		210	40	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Benzo[a]pyrene	**240**		210	46	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Benzo[b]fluoranthene	**330**		210	52	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Benzo[g,h,i]perylene	**210**		210	46	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Benzo[k]fluoranthene	ND		210	64	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
1,1'-Biphenyl	ND		1000	44	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Bis(2-chloroethoxy)methane	ND		1000	50	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Bis(2-chloroethyl)ether	ND		210	38	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Bis(2-ethylhexyl) phthalate	ND		10000	1100	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
4-Bromophenyl phenyl ether	ND		1000	74	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Butyl benzyl phthalate	ND		1000	730	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Caprolactam	ND	F1	5400	690	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Carbazole	ND		210	50	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
4-Chloroaniline	ND	F1	1000	35	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
4-Chloro-3-methylphenol	ND		1000	50	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2-Chloronaphthalene	ND		210	49	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2-Chlorophenol	ND		1000	49	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
4-Chlorophenyl phenyl ether	ND		1000	64	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Chrysene	**800**		210	42	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Dibenz(a,h)anthracene	ND		210	47	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Dibenzofuran	ND		1000	46	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
3,3'-Dichlorobenzidine	ND		1000	990	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2,4-Dichlorophenol	ND		210	82	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Diethyl phthalate	ND		1000	260	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2,4-Dimethylphenol	ND		1000	66	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Dimethyl phthalate	ND		1000	38	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Di-n-butyl phthalate	ND		1000	460	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
4,6-Dinitro-2-methylphenol	ND		5400	1800	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2,4-Dinitrophenol	ND	F1	10000	2800	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2,4-Dinitrotoluene	ND		1000	53	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2,6-Dinitrotoluene	ND		1000	65	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Di-n-octyl phthalate	ND		1000	620	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
1,4-Dioxane	ND		2100	330	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Fluoranthene	**370**		210	56	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Fluorene	ND		210	42	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Hexachlorobenzene	ND		210	76	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Hexachlorobutadiene	ND		210	62	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Hexachlorocyclopentadiene	ND		1000	54	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Hexachloroethane	ND		1000	55	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Indeno[1,2,3-cd]pyrene	**160**	**J**	210	43	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Isophorone	ND		1000	54	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2-Methylnaphthalene	ND		210	51	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2-Methylphenol	ND		1000	300	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3

Client Sample ID: SSHS-P2
Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-1
Matrix: Solid
Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		1000	310	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Naphthalene	**71**	**J**	210	41	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2-Nitroaniline	ND		5400	480	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
3-Nitroaniline	ND		5400	270	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
4-Nitroaniline	ND		5400	51	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Nitrobenzene	ND		2100	390	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2-Nitrophenol	ND		1000	61	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
4-Nitrophenol	ND		5400	740	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
N-Nitrosodi-n-propylamine	ND		210	72	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
N-Nitrosodiphenylamine	ND		1000	350	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2,2'-oxybis[1-chloropropane]	ND		210	78	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Pentachlorophenol	ND	F1 F2	5400	1700	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Phenanthrene	**280**		210	57	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Phenol	ND		1000	320	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
Pyrene	**460**		210	50	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
1,2,4,5-Tetrachlorobenzene	ND		1000	46	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2,3,4,6-Tetrachlorophenol	ND	F1	1000	440	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2,4,5-Trichlorophenol	ND		1000	76	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3
2,4,6-Trichlorophenol	ND		1000	58	ug/Kg	☼	07/16/18 15:33	07/18/18 17:03	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*47 - 105*	*07/16/18 15:33*	*07/18/18 17:03*	*3*
2-Fluorophenol (Surr)	*58*		*35 - 105*	*07/16/18 15:33*	*07/18/18 17:03*	*3*
Nitrobenzene-d5 (Surr)	*60*		*47 - 105*	*07/16/18 15:33*	*07/18/18 17:03*	*3*
Phenol-d5 (Surr)	*60*		*38 - 105*	*07/16/18 15:33*	*07/18/18 17:03*	*3*
Terphenyl-d14 (Surr)	*71*		*42 - 105*	*07/16/18 15:33*	*07/18/18 17:03*	*3*
2,4,6-Tribromophenol (Surr)	*50*		*20 - 111*	*07/16/18 15:33*	*07/18/18 17:03*	*3*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		720	230	ug/Kg	☼	07/14/18 15:24	07/16/18 17:44	40
PCB-1221	ND		720	470	ug/Kg	☼	07/14/18 15:24	07/16/18 17:44	40
PCB-1232	ND		720	430	ug/Kg	☼	07/14/18 15:24	07/16/18 17:44	40
PCB-1242	ND		720	430	ug/Kg	☼	07/14/18 15:24	07/16/18 17:44	40
PCB-1248	**72000**		720	570	ug/Kg	☼	07/14/18 15:24	07/16/18 17:44	40
PCB-1254	**32000**		720	490	ug/Kg	☼	07/14/18 15:24	07/16/18 17:44	40
PCB-1260	**2300**		720	200	ug/Kg	☼	07/14/18 15:24	07/16/18 17:44	40
PCB-1262	ND		720	510	ug/Kg	☼	07/14/18 15:24	07/16/18 17:44	40
PCB-1268	ND		720	350	ug/Kg	☼	07/14/18 15:24	07/16/18 17:44	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/14/18 15:24*	*07/16/18 17:44*	*40*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/14/18 15:24*	*07/16/18 17:44*	*40*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/14/18 15:24*	*07/16/18 17:44*	*40*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/14/18 15:24*	*07/16/18 17:44*	*40*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6200**		22	3.1	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Antimony	**0.37**	**J**	1.1	0.37	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1

Client Sample ID: SSHS-P2

Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-1
Matrix: Solid
Percent Solids: 92.6

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		1.1	0.30	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Barium	74		22	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Beryllium	0.28	J	0.44	0.025	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Cadmium	0.23	J	0.55	0.040	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Calcium	53000		550	29	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Chromium	10		0.55	0.13	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Cobalt	4.6	J	5.5	0.32	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Copper	42		2.8	0.18	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Iron	13000		11	5.6	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Lead	230		1.1	0.27	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Magnesium	6500		550	36	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Manganese	320		1.7	0.18	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Nickel	25		4.4	0.27	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Potassium	670		550	38	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Selenium	0.86	J	1.1	0.57	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Silver	ND		0.55	0.12	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Sodium	170	J	550	29	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Thallium	ND		2.2	0.23	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Vanadium	9.8		5.5	0.77	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1
Zinc	93		2.2	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:14	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.037	0.0083	mg/Kg	☼	07/16/18 11:24	07/17/18 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	92.6		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: P1-10-12

Date Collected: 07/12/18 09:50
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-2
Matrix: Solid
Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		750	210	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Acenaphthylene	ND		750	160	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Acetophenone	ND		7500	200	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Anthracene	ND		750	190	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Atrazine	ND		7500	1600	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Benzaldehyde	ND		7500	460	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Benzo[a]anthracene	ND		750	140	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Benzo[a]pyrene	300	J	750	160	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Benzo[b]fluoranthene	300	J	750	180	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Benzo[g,h,i]perylene	520	J	750	160	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Benzo[k]fluoranthene	ND		750	220	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
1,1'-Biphenyl	ND		3700	160	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Bis(2-chloroethoxy)methane	ND		3700	180	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Bis(2-chloroethyl)ether	ND		750	140	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10

Client Sample ID: P1-10-12
Date Collected: 07/12/18 09:50
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-2
Matrix: Solid
Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		37000	4000	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
4-Bromophenyl phenyl ether	ND		3700	260	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Butyl benzyl phthalate	ND		3700	2600	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Caprolactam	ND		19000	2400	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Carbazole	ND		750	170	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
4-Chloroaniline	ND		3700	120	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
4-Chloro-3-methylphenol	ND		3700	180	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2-Chloronaphthalene	ND		750	170	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2-Chlorophenol	ND		3700	170	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
4-Chlorophenyl phenyl ether	ND		3700	230	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Chrysene	ND		750	150	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Dibenz(a,h)anthracene	ND		750	170	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Dibenzofuran	**240**	**J**	3700	160	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
3,3'-Dichlorobenzidine	ND		3700	3500	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2,4-Dichlorophenol	ND		750	290	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Diethyl phthalate	ND		3700	900	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2,4-Dimethylphenol	ND		3700	230	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Dimethyl phthalate	ND		3700	140	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Di-n-butyl phthalate	ND		3700	1600	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
4,6-Dinitro-2-methylphenol	ND		19000	6400	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2,4-Dinitrophenol	ND		37000	10000	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2,4-Dinitrotoluene	ND		3700	190	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2,6-Dinitrotoluene	ND		3700	230	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Di-n-octyl phthalate	ND		3700	2200	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
1,4-Dioxane	ND		7500	1200	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Fluoranthene	**380**	**J**	750	200	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Fluorene	ND		750	150	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Hexachlorobenzene	ND		750	270	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Hexachlorobutadiene	ND		750	220	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Hexachlorocyclopentadiene	ND		3700	190	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Hexachloroethane	ND		3700	190	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Indeno[1,2,3-cd]pyrene	**360**	**J**	750	150	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Isophorone	ND		3700	190	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2-Methylnaphthalene	**450**	**J**	750	180	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2-Methylphenol	ND		3700	1100	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Methylphenol, 3 & 4	ND		3700	1100	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Naphthalene	**370**	**J**	750	150	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2-Nitroaniline	ND		19000	1700	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
3-Nitroaniline	ND		19000	950	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
4-Nitroaniline	ND		19000	180	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Nitrobenzene	ND		7500	1400	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2-Nitrophenol	ND		3700	210	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
4-Nitrophenol	ND		19000	2600	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
N-Nitrosodi-n-propylamine	ND		750	250	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
N-Nitrosodiphenylamine	ND		3700	1200	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2,2'-oxybis[1-chloropropane]	ND		750	280	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Pentachlorophenol	ND		19000	6000	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Phenanthrene	**660**	**J**	750	200	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
Phenol	ND		3700	1100	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10

Client Sample ID: P1-10-12
Date Collected: 07/12/18 09:50
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-2
Matrix: Solid
Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**270**	**J**	750	180	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
1,2,4,5-Tetrachlorobenzene	ND		3700	160	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2,3,4,6-Tetrachlorophenol	ND		3700	1600	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2,4,5-Trichlorophenol	ND		3700	270	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10
2,4,6-Trichlorophenol	ND		3700	200	ug/Kg	☼	07/16/18 15:33	07/18/18 18:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*47 - 105*	*07/16/18 15:33*	*07/18/18 18:21*	*10*
2-Fluorophenol (Surr)	*58*		*35 - 105*	*07/16/18 15:33*	*07/18/18 18:21*	*10*
Nitrobenzene-d5 (Surr)	*58*		*47 - 105*	*07/16/18 15:33*	*07/18/18 18:21*	*10*
Phenol-d5 (Surr)	*56*		*38 - 105*	*07/16/18 15:33*	*07/18/18 18:21*	*10*
Terphenyl-d14 (Surr)	*60*		*42 - 105*	*07/16/18 15:33*	*07/18/18 18:21*	*10*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 111*	*07/16/18 15:33*	*07/18/18 18:21*	*10*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		760	250	ug/Kg	☼	07/14/18 15:24	07/16/18 18:04	40
PCB-1221	ND		760	490	ug/Kg	☼	07/14/18 15:24	07/16/18 18:04	40
PCB-1232	ND		760	450	ug/Kg	☼	07/14/18 15:24	07/16/18 18:04	40
PCB-1242	ND		760	450	ug/Kg	☼	07/14/18 15:24	07/16/18 18:04	40
PCB-1248	**120000**		760	600	ug/Kg	☼	07/14/18 15:24	07/16/18 18:04	40
PCB-1254	**44000**		760	520	ug/Kg	☼	07/14/18 15:24	07/16/18 18:04	40
PCB-1260	**3400**		760	220	ug/Kg	☼	07/14/18 15:24	07/16/18 18:04	40
PCB-1262	ND		760	530	ug/Kg	☼	07/14/18 15:24	07/16/18 18:04	40
PCB-1268	ND		760	370	ug/Kg	☼	07/14/18 15:24	07/16/18 18:04	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/14/18 15:24*	*07/16/18 18:04*	*40*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/14/18 15:24*	*07/16/18 18:04*	*40*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/14/18 15:24*	*07/16/18 18:04*	*40*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/14/18 15:24*	*07/16/18 18:04*	*40*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7500**		23	3.3	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Antimony	**0.79**	**J**	1.2	0.39	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Arsenic	**10**		1.2	0.32	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Barium	**400**		23	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Beryllium	**0.37**	**J**	0.46	0.026	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Cadmium	**1.9**		0.58	0.042	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Calcium	**41000**		580	30	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Chromium	**17**		0.58	0.14	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Cobalt	**7.6**		5.8	0.34	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Copper	**780**		2.9	0.19	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Iron	**26000**		12	5.8	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Lead	**210**		1.2	0.29	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Magnesium	**6300**		580	38	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Manganese	**450**		1.7	0.19	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Nickel	**34**		4.6	0.29	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Potassium	**950**		580	40	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1

Client Sample ID: P1-10-12

Date Collected: 07/12/18 09:50
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-2
Matrix: Solid
Percent Solids: 87.6

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**1.2**		1.2	0.59	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Silver	ND		0.58	0.12	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Sodium	**270**	**J**	580	30	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Thallium	ND		2.3	0.24	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Vanadium	**17**		5.8	0.80	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1
Zinc	**790**		2.3	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:20	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**8.8**		0.35	0.079	mg/Kg	☼	07/16/18 11:24	07/17/18 12:22	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.4**		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	**87.6**		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: NBSW-10-12

Date Collected: 07/12/18 10:10
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-3
Matrix: Solid
Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		70	20	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Acenaphthylene	ND		70	15	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Acetophenone	ND		700	19	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Anthracene	ND		70	18	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Atrazine	ND		700	150	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Benzaldehyde	ND		700	44	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Benzo[a]anthracene	ND		70	13	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Benzo[a]pyrene	ND		70	15	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Benzo[b]fluoranthene	ND		70	17	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Benzo[g,h,i]perylene	ND		70	15	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Benzo[k]fluoranthene	ND		70	21	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
1,1'-Biphenyl	ND		350	15	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Bis(2-chloroethoxy)methane	ND		350	17	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Bis(2-chloroethyl)ether	ND		70	13	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Bis(2-ethylhexyl) phthalate	ND		3500	370	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
4-Bromophenyl phenyl ether	ND		350	24	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Butyl benzyl phthalate	ND		350	240	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Caprolactam	ND		1800	230	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Carbazole	ND		70	16	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
4-Chloroaniline	ND		350	12	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
4-Chloro-3-methylphenol	ND		350	17	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2-Chloronaphthalene	ND		70	16	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2-Chlorophenol	ND		350	16	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
4-Chlorophenyl phenyl ether	ND		350	21	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Chrysene	ND		70	14	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Dibenz(a,h)anthracene	ND		70	16	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Dibenzofuran	ND		350	15	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
3,3'-Dichlorobenzidine	ND		350	330	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1

Client Sample ID: NBSW-10-12
Date Collected: 07/12/18 10:10
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-3
Matrix: Solid
Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		70	27	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Diethyl phthalate	ND		350	85	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2,4-Dimethylphenol	ND		350	22	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Dimethyl phthalate	ND		350	13	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Di-n-butyl phthalate	ND		350	150	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
4,6-Dinitro-2-methylphenol	ND		1800	600	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2,4-Dinitrophenol	ND		3500	940	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2,4-Dinitrotoluene	ND		350	17	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2,6-Dinitrotoluene	ND		350	22	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Di-n-octyl phthalate	ND		350	200	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
1,4-Dioxane	ND		700	110	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Fluoranthene	**18**	**J**	70	18	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Fluorene	ND		70	14	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Hexachlorobenzene	ND		70	25	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Hexachlorobutadiene	ND		70	20	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Hexachlorocyclopentadiene	ND		350	18	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Hexachloroethane	ND		350	18	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Indeno[1,2,3-cd]pyrene	ND		70	14	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Isophorone	ND		350	18	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2-Methylnaphthalene	ND		70	17	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2-Methylphenol	ND		350	100	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Methylphenol, 3 & 4	ND		350	100	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Naphthalene	ND		70	14	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2-Nitroaniline	ND		1800	160	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
3-Nitroaniline	ND		1800	89	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
4-Nitroaniline	ND		1800	17	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Nitrobenzene	ND		700	130	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2-Nitrophenol	ND		350	20	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
4-Nitrophenol	ND		1800	250	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
N-Nitrosodi-n-propylamine	ND		70	24	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
N-Nitrosodiphenylamine	ND		350	120	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2,2'-oxybis[1-chloropropane]	ND		70	26	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Pentachlorophenol	ND		1800	560	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Phenanthrene	ND		70	19	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Phenol	ND		350	110	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
Pyrene	**17**	**J**	70	17	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
1,2,4,5-Tetrachlorobenzene	ND		350	15	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2,3,4,6-Tetrachlorophenol	ND		350	150	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2,4,5-Trichlorophenol	ND		350	25	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1
2,4,6-Trichlorophenol	ND		350	19	ug/Kg	☼	07/16/18 15:33	07/18/18 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*47 - 105*	*07/16/18 15:33*	*07/18/18 18:47*	*1*
2-Fluorophenol (Surr)	*63*		*35 - 105*	*07/16/18 15:33*	*07/18/18 18:47*	*1*
Nitrobenzene-d5 (Surr)	*66*		*47 - 105*	*07/16/18 15:33*	*07/18/18 18:47*	*1*
Phenol-d5 (Surr)	*63*		*38 - 105*	*07/16/18 15:33*	*07/18/18 18:47*	*1*
Terphenyl-d14 (Surr)	*71*		*42 - 105*	*07/16/18 15:33*	*07/18/18 18:47*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*20 - 111*	*07/16/18 15:33*	*07/18/18 18:47*	*1*

Client Sample ID: NBSW-10-12

Date Collected: 07/12/18 10:10
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-3

Matrix: Solid
Percent Solids: 92.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.8	ug/Kg	☼	07/14/18 15:24	07/16/18 13:28	1
PCB-1221	ND		18	11	ug/Kg	☼	07/14/18 15:24	07/16/18 13:28	1
PCB-1232	ND		18	11	ug/Kg	☼	07/14/18 15:24	07/16/18 13:28	1
PCB-1242	ND		18	11	ug/Kg	☼	07/14/18 15:24	07/16/18 13:28	1
PCB-1248	**370**		18	14	ug/Kg	☼	07/14/18 15:24	07/16/18 13:28	1
PCB-1254	**170**		18	12	ug/Kg	☼	07/14/18 15:24	07/16/18 13:28	1
PCB-1260	**19**		18	5.0	ug/Kg	☼	07/14/18 15:24	07/16/18 13:28	1
PCB-1262	ND		18	12	ug/Kg	☼	07/14/18 15:24	07/16/18 13:28	1
PCB-1268	ND		18	8.6	ug/Kg	☼	07/14/18 15:24	07/16/18 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/14/18 15:24*	*07/16/18 13:28*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/14/18 15:24*	*07/16/18 13:28*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/14/18 15:24*	*07/16/18 13:28*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*07/14/18 15:24*	*07/16/18 13:28*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6000**		22	3.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Antimony	ND		1.1	0.38	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Arsenic	**5.3**		1.1	0.31	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Barium	**56**		22	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Beryllium	**0.26**	**J**	0.44	0.025	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Cadmium	**0.15**	**J**	0.55	0.040	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Calcium	**36000**		550	29	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Chromium	**8.4**		0.55	0.14	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Cobalt	**5.6**		5.5	0.33	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Copper	**28**		2.8	0.19	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Iron	**15000**		11	5.6	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Lead	**14**		1.1	0.27	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Magnesium	**6100**		550	37	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Manganese	**310**		1.7	0.18	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Nickel	**37**		4.4	0.28	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Potassium	**740**		550	39	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Selenium	ND		1.1	0.57	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Silver	ND		0.55	0.12	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Sodium	**120**	**J**	550	29	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Thallium	ND		2.2	0.23	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Vanadium	**11**		5.5	0.77	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1
Zinc	**62**		2.2	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:25	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.032	0.0071	mg/Kg	☼	07/16/18 11:24	07/17/18 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	**92.1**		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: EBSW-10-12
Date Collected: 07/12/18 10:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-4
Matrix: Solid
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		400	110	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Acenaphthylene	ND		400	87	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Acetophenone	ND		4000	110	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Anthracene	**140**	**J**	400	100	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Atrazine	ND		4000	870	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Benzaldehyde	ND		4000	250	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Benzo[a]anthracene	**240**	**J**	400	75	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Benzo[a]pyrene	**310**	**J**	400	87	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Benzo[b]fluoranthene	**400**		400	98	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Benzo[g,h,i]perylene	**490**		400	86	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Benzo[k]fluoranthene	**200**	**J**	400	120	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
1,1'-Biphenyl	ND		2000	84	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Bis(2-chloroethoxy)methane	ND		2000	95	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Bis(2-chloroethyl)ether	ND		400	72	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Bis(2-ethylhexyl) phthalate	ND		20000	2100	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
4-Bromophenyl phenyl ether	ND		2000	140	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Butyl benzyl phthalate	ND		2000	1400	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Caprolactam	ND		10000	1300	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Carbazole	ND		400	93	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
4-Chloroaniline	ND		2000	66	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
4-Chloro-3-methylphenol	ND		2000	94	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2-Chloronaphthalene	ND		400	91	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2-Chlorophenol	ND		2000	93	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
4-Chlorophenyl phenyl ether	ND		2000	120	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Chrysene	**310**	**J**	400	78	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Dibenz(a,h)anthracene	ND		400	89	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Dibenzofuran	ND		2000	87	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
3,3'-Dichlorobenzidine	ND		2000	1900	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2,4-Dichlorophenol	ND		400	150	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Diethyl phthalate	ND		2000	480	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2,4-Dimethylphenol	ND		2000	120	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Dimethyl phthalate	ND		2000	72	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Di-n-butyl phthalate	ND		2000	870	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
4,6-Dinitro-2-methylphenol	ND		10000	3400	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2,4-Dinitrophenol	ND		20000	5400	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2,4-Dinitrotoluene	ND		2000	99	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2,6-Dinitrotoluene	ND		2000	120	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Di-n-octyl phthalate	ND		2000	1200	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
1,4-Dioxane	ND		4000	620	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Fluoranthene	**710**		400	110	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Fluorene	ND		400	78	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Hexachlorobenzene	ND		400	140	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Hexachlorobutadiene	ND		400	120	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Hexachlorocyclopentadiene	ND		2000	100	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Hexachloroethane	ND		2000	100	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Indeno[1,2,3-cd]pyrene	**450**		400	81	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Isophorone	ND		2000	100	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2-Methylnaphthalene	ND		400	96	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2-Methylphenol	ND		2000	570	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5

Client Sample ID: EBSW-10-12
Date Collected: 07/12/18 10:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-4
Matrix: Solid
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		2000	590	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Naphthalene	ND		400	78	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2-Nitroaniline	ND		10000	910	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
3-Nitroaniline	ND		10000	510	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
4-Nitroaniline	ND		10000	97	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Nitrobenzene	ND		4000	730	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2-Nitrophenol	ND		2000	110	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
4-Nitrophenol	ND		10000	1400	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
N-Nitrosodi-n-propylamine	ND		400	140	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
N-Nitrosodiphenylamine	ND		2000	660	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2,2'-oxybis[1-chloropropane]	ND		400	150	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Pentachlorophenol	ND		10000	3200	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Phenanthrene	**290**	**J**	400	110	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Phenol	ND		2000	600	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
Pyrene	**620**		400	94	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
1,2,4,5-Tetrachlorobenzene	ND		2000	86	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2,3,4,6-Tetrachlorophenol	ND		2000	830	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2,4,5-Trichlorophenol	ND		2000	140	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5
2,4,6-Trichlorophenol	ND		2000	110	ug/Kg	☼	07/16/18 15:33	07/18/18 19:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*47 - 105*	*07/16/18 15:33*	*07/18/18 19:13*	*5*
2-Fluorophenol (Surr)	*51*		*35 - 105*	*07/16/18 15:33*	*07/18/18 19:13*	*5*
Nitrobenzene-d5 (Surr)	*55*		*47 - 105*	*07/16/18 15:33*	*07/18/18 19:13*	*5*
Phenol-d5 (Surr)	*54*		*38 - 105*	*07/16/18 15:33*	*07/18/18 19:13*	*5*
Terphenyl-d14 (Surr)	*66*		*42 - 105*	*07/16/18 15:33*	*07/18/18 19:13*	*5*
2,4,6-Tribromophenol (Surr)	*62*		*20 - 111*	*07/16/18 15:33*	*07/18/18 19:13*	*5*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		100	33	ug/Kg	☼	07/14/18 15:24	07/16/18 18:24	5
PCB-1221	ND		100	65	ug/Kg	☼	07/14/18 15:24	07/16/18 18:24	5
PCB-1232	ND		100	60	ug/Kg	☼	07/14/18 15:24	07/16/18 18:24	5
PCB-1242	ND		100	60	ug/Kg	☼	07/14/18 15:24	07/16/18 18:24	5
PCB-1248	**12000**		100	80	ug/Kg	☼	07/14/18 15:24	07/16/18 18:24	5
PCB-1254	**5300**		100	69	ug/Kg	☼	07/14/18 15:24	07/16/18 18:24	5
PCB-1260	**570**		100	29	ug/Kg	☼	07/14/18 15:24	07/16/18 18:24	5
PCB-1262	ND		100	71	ug/Kg	☼	07/14/18 15:24	07/16/18 18:24	5
PCB-1268	ND		100	49	ug/Kg	☼	07/14/18 15:24	07/16/18 18:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*07/14/18 15:24*	*07/16/18 18:24*	*5*
DCB Decachlorobiphenyl (Surr)	*99*		*33 - 137*	*07/14/18 15:24*	*07/16/18 18:24*	*5*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*07/14/18 15:24*	*07/16/18 18:24*	*5*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/14/18 15:24*	*07/16/18 18:24*	*5*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8900**		25	3.5	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Antimony	**4.4**		1.2	0.42	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1

Client Sample ID: EBSW-10-12

Lab Sample ID: 180-79745-4
Date Collected: 07/12/18 10:00
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 81.5

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		1.2	0.34	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Barium	580		25	1.3	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Beryllium	0.32	J	0.49	0.028	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Cadmium	1.8		0.61	0.045	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Calcium	42000		610	32	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Chromium	170		0.61	0.15	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Cobalt	14		6.1	0.36	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Copper	330		3.1	0.21	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Iron	45000		12	6.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Lead	650		1.2	0.30	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Magnesium	5200		610	40	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Manganese	720		1.8	0.20	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Nickel	2000		9.8	0.61	mg/Kg	☼	07/16/18 13:55	07/17/18 12:29	2
Potassium	930		610	43	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Selenium	1.3		1.2	0.63	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Silver	ND		0.61	0.13	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Sodium	500	J	610	32	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Thallium	ND		2.5	0.26	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Vanadium	18		6.1	0.85	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1
Zinc	840		2.5	1.3	mg/Kg	☼	07/16/18 13:55	07/17/18 10:30	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.034	0.0077	mg/Kg	☼	07/16/18 11:24	07/17/18 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.5		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	81.5		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: SW-017-0-2

Lab Sample ID: 180-79745-5
Date Collected: 07/12/18 09:45
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 94.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.7	ug/Kg	☼	07/14/18 15:24	07/16/18 14:07	1
PCB-1221	ND		17	11	ug/Kg	☼	07/14/18 15:24	07/16/18 14:07	1
PCB-1232	ND		17	10	ug/Kg	☼	07/14/18 15:24	07/16/18 14:07	1
PCB-1242	ND		17	10	ug/Kg	☼	07/14/18 15:24	07/16/18 14:07	1
PCB-1248	ND		17	14	ug/Kg	☼	07/14/18 15:24	07/16/18 14:07	1
PCB-1254	ND		17	12	ug/Kg	☼	07/14/18 15:24	07/16/18 14:07	1
PCB-1260	ND		17	5.0	ug/Kg	☼	07/14/18 15:24	07/16/18 14:07	1
PCB-1262	ND		17	12	ug/Kg	☼	07/14/18 15:24	07/16/18 14:07	1
PCB-1268	ND		17	8.5	ug/Kg	☼	07/14/18 15:24	07/16/18 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*07/14/18 15:24*	*07/16/18 14:07*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*	*07/14/18 15:24*	*07/16/18 14:07*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*	*07/14/18 15:24*	*07/16/18 14:07*	*1*

Client Sample ID: SW-017-0-2

Lab Sample ID: 180-79745-5
Date Collected: 07/12/18 09:45
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 94.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/14/18 15:24*	*07/16/18 14:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.2**		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	**94.8**		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: SW-018-4-6

Lab Sample ID: 180-79745-6
Date Collected: 07/12/18 10:00
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 92.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		350	120	ug/Kg	☼	07/14/18 15:24	07/16/18 18:43	20
PCB-1221	ND		350	230	ug/Kg	☼	07/14/18 15:24	07/16/18 18:43	20
PCB-1232	ND		350	210	ug/Kg	☼	07/14/18 15:24	07/16/18 18:43	20
PCB-1242	ND		350	210	ug/Kg	☼	07/14/18 15:24	07/16/18 18:43	20
PCB-1248	**37000**		350	280	ug/Kg	☼	07/14/18 15:24	07/16/18 18:43	20
PCB-1254	**16000**		350	240	ug/Kg	☼	07/14/18 15:24	07/16/18 18:43	20
PCB-1260	**1500**		350	100	ug/Kg	☼	07/14/18 15:24	07/16/18 18:43	20
PCB-1262	ND		350	250	ug/Kg	☼	07/14/18 15:24	07/16/18 18:43	20
PCB-1268	ND		350	170	ug/Kg	☼	07/14/18 15:24	07/16/18 18:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*128*		*33 - 137*	*07/14/18 15:24*	*07/16/18 18:43*	*20*
DCB Decachlorobiphenyl (Surr)	*109*		*33 - 137*	*07/14/18 15:24*	*07/16/18 18:43*	*20*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/14/18 15:24*	*07/16/18 18:43*	*20*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/14/18 15:24*	*07/16/18 18:43*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.1**		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	**92.9**		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: SW-019-6-8

Lab Sample ID: 180-79745-7
Date Collected: 07/12/18 10:05
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 91.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		360	120	ug/Kg	☼	07/14/18 15:24	07/16/18 19:23	20
PCB-1221	ND		360	230	ug/Kg	☼	07/14/18 15:24	07/16/18 19:23	20
PCB-1232	ND		360	210	ug/Kg	☼	07/14/18 15:24	07/16/18 19:23	20
PCB-1242	ND		360	210	ug/Kg	☼	07/14/18 15:24	07/16/18 19:23	20
PCB-1248	**34000**		360	280	ug/Kg	☼	07/14/18 15:24	07/16/18 19:23	20
PCB-1254	**13000**		360	240	ug/Kg	☼	07/14/18 15:24	07/16/18 19:23	20
PCB-1260	**1100**		360	100	ug/Kg	☼	07/14/18 15:24	07/16/18 19:23	20
PCB-1262	ND		360	250	ug/Kg	☼	07/14/18 15:24	07/16/18 19:23	20
PCB-1268	ND		360	170	ug/Kg	☼	07/14/18 15:24	07/16/18 19:23	20

Client Sample ID: SW-019-6-8

Lab Sample ID: 180-79745-7
Date Collected: 07/12/18 10:05
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 91.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*127*		*33 - 137*	*07/14/18 15:24*	*07/16/18 19:23*	*20*
DCB Decachlorobiphenyl (Surr)	*117*		*33 - 137*	*07/14/18 15:24*	*07/16/18 19:23*	*20*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/14/18 15:24*	*07/16/18 19:23*	*20*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/14/18 15:24*	*07/16/18 19:23*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	**91.5**		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: SW-020-6-8

Lab Sample ID: 180-79745-8
Date Collected: 07/12/18 10:10
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 88.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/14/18 15:24	07/16/18 15:07	1
PCB-1221	ND		19	12	ug/Kg	☼	07/14/18 15:24	07/16/18 15:07	1
PCB-1232	ND		19	11	ug/Kg	☼	07/14/18 15:24	07/16/18 15:07	1
PCB-1242	ND		19	11	ug/Kg	☼	07/14/18 15:24	07/16/18 15:07	1
PCB-1248	**5500**		19	15	ug/Kg	☼	07/14/18 15:24	07/16/18 15:07	1
PCB-1254	**2700**		19	13	ug/Kg	☼	07/14/18 15:24	07/16/18 15:07	1
PCB-1260	**250**		19	5.4	ug/Kg	☼	07/14/18 15:24	07/16/18 15:07	1
PCB-1262	ND		19	13	ug/Kg	☼	07/14/18 15:24	07/16/18 15:07	1
PCB-1268	ND		19	9.2	ug/Kg	☼	07/14/18 15:24	07/16/18 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/14/18 15:24*	*07/16/18 15:07*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*07/14/18 15:24*	*07/16/18 15:07*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/14/18 15:24*	*07/16/18 15:07*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/14/18 15:24*	*07/16/18 15:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	**88.4**		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: SW-021-4-6

Lab Sample ID: 180-79745-9
Date Collected: 07/12/18 10:10
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 91.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		360	120	ug/Kg	☼	07/14/18 15:24	07/16/18 20:02	20
PCB-1221	ND		360	240	ug/Kg	☼	07/14/18 15:24	07/16/18 20:02	20
PCB-1232	ND		360	220	ug/Kg	☼	07/14/18 15:24	07/16/18 20:02	20
PCB-1242	ND		360	220	ug/Kg	☼	07/14/18 15:24	07/16/18 20:02	20
PCB-1248	**7800**		360	290	ug/Kg	☼	07/14/18 15:24	07/16/18 20:02	20
PCB-1254	**3700**		360	250	ug/Kg	☼	07/14/18 15:24	07/16/18 20:02	20
PCB-1260	**350**	**J**	360	100	ug/Kg	☼	07/14/18 15:24	07/16/18 20:02	20
PCB-1262	ND		360	260	ug/Kg	☼	07/14/18 15:24	07/16/18 20:02	20

Client Sample ID: SW-021-4-6

Lab Sample ID: 180-79745-9
Date Collected: 07/12/18 10:10
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 91.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		360	180	ug/Kg	☼	07/14/18 15:24	07/16/18 20:02	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*107*		*33 - 137*	*07/14/18 15:24*	*07/16/18 20:02*	*20*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/14/18 15:24*	*07/16/18 20:02*	*20*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/14/18 15:24*	*07/16/18 20:02*	*20*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/14/18 15:24*	*07/16/18 20:02*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	**91.8**		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: SSHS-B1409-6-8

Lab Sample ID: 180-79745-10
Date Collected: 07/12/18 14:30
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 89.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/14/18 15:24	07/16/18 15:46	1
PCB-1221	ND		19	12	ug/Kg	☼	07/14/18 15:24	07/16/18 15:46	1
PCB-1232	ND		19	11	ug/Kg	☼	07/14/18 15:24	07/16/18 15:46	1
PCB-1242	ND		19	11	ug/Kg	☼	07/14/18 15:24	07/16/18 15:46	1
PCB-1248	**760**		19	15	ug/Kg	☼	07/14/18 15:24	07/16/18 15:46	1
PCB-1254	**510**		19	13	ug/Kg	☼	07/14/18 15:24	07/16/18 15:46	1
PCB-1260	**88**		19	5.3	ug/Kg	☼	07/14/18 15:24	07/16/18 15:46	1
PCB-1262	ND		19	13	ug/Kg	☼	07/14/18 15:24	07/16/18 15:46	1
PCB-1268	ND		19	9.0	ug/Kg	☼	07/14/18 15:24	07/16/18 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*07/14/18 15:24*	*07/16/18 15:46*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*07/14/18 15:24*	*07/16/18 15:46*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*07/14/18 15:24*	*07/16/18 15:46*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/14/18 15:24*	*07/16/18 15:46*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6600**		23	3.3	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Antimony	ND		1.2	0.40	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Arsenic	**9.1**		1.2	0.32	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Barium	**72**		23	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Beryllium	**0.30**	**J**	0.47	0.027	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Cadmium	**0.27**	**J**	0.58	0.042	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Calcium	**54000**		580	30	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Chromium	**16**		0.58	0.14	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Cobalt	**6.2**		5.8	0.34	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Copper	**76**		2.9	0.19	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Iron	**19000**		12	5.9	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Lead	**120**		1.2	0.29	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Magnesium	**23000**		580	38	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Manganese	**400**		1.7	0.19	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1

Client Sample ID: SSHS-B1409-6-8

Date Collected: 07/12/18 14:30
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-10

Matrix: Solid
Percent Solids: 89.5

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	94		4.7	0.29	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Potassium	750		580	40	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Selenium	0.89	J	1.2	0.60	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Silver	ND		0.58	0.12	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Sodium	170	J	580	30	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Thallium	ND		2.3	0.24	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Vanadium	13		5.8	0.81	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1
Zinc	110		2.3	1.3	mg/Kg	☼	07/16/18 13:55	07/17/18 10:35	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.033	0.0073	mg/Kg	☼	07/16/18 11:24	07/17/18 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	89.5		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: SSHS-B1408-6-8

Date Collected: 07/12/18 14:20
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-11

Matrix: Solid
Percent Solids: 90.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		370	120	ug/Kg	☼	07/14/18 15:24	07/16/18 20:41	20
PCB-1221	ND		370	240	ug/Kg	☼	07/14/18 15:24	07/16/18 20:41	20
PCB-1232	ND		370	220	ug/Kg	☼	07/14/18 15:24	07/16/18 20:41	20
PCB-1242	ND		370	220	ug/Kg	☼	07/14/18 15:24	07/16/18 20:41	20
PCB-1248	18000		370	290	ug/Kg	☼	07/14/18 15:24	07/16/18 20:41	20
PCB-1254	10000		370	250	ug/Kg	☼	07/14/18 15:24	07/16/18 20:41	20
PCB-1260	1200		370	100	ug/Kg	☼	07/14/18 15:24	07/16/18 20:41	20
PCB-1262	ND		370	260	ug/Kg	☼	07/14/18 15:24	07/16/18 20:41	20
PCB-1268	ND		370	180	ug/Kg	☼	07/14/18 15:24	07/16/18 20:41	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*119*		*33 - 137*	*07/14/18 15:24*	*07/16/18 20:41*	*20*
DCB Decachlorobiphenyl (Surr)	*120*		*33 - 137*	*07/14/18 15:24*	*07/16/18 20:41*	*20*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/14/18 15:24*	*07/16/18 20:41*	*20*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*07/14/18 15:24*	*07/16/18 20:41*	*20*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7600		23	3.3	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Antimony	0.90	J	1.1	0.39	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Arsenic	9.5		1.1	0.32	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Barium	83		23	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Beryllium	0.37	J	0.46	0.026	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Cadmium	0.27	J	0.57	0.042	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Calcium	35000		570	30	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Chromium	13		0.57	0.14	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Cobalt	5.9		5.7	0.34	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1

Client Sample ID: SSHS-B1408-6-8

Lab Sample ID: 180-79745-11
Date Collected: 07/12/18 14:20
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 90.1

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	110		2.9	0.19	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Iron	18000		11	5.8	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Lead	110		1.1	0.28	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Magnesium	10000		570	38	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Manganese	410		1.7	0.19	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Nickel	35		4.6	0.28	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Potassium	850		570	40	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Selenium	ND		1.1	0.59	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Silver	ND		0.57	0.12	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Sodium	170	J	570	30	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Thallium	ND		2.3	0.24	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Vanadium	14		5.7	0.80	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1
Zinc	120		2.3	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 10:41	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.030	0.0067	mg/Kg	☼	07/16/18 11:24	07/17/18 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	90.1		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: SSHS-CS1

Lab Sample ID: 180-79745-12
Date Collected: 07/12/18 16:00
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	22	J	70	20	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Acenaphthylene	130		70	15	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Acetophenone	ND		700	19	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Anthracene	150		70	18	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Atrazine	ND		700	150	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Benzaldehyde	ND		700	43	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Benzo[a]anthracene	420		70	13	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Benzo[a]pyrene	500		70	15	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Benzo[b]fluoranthene	670		70	17	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Benzo[g,h,i]perylene	710		70	15	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Benzo[k]fluoranthene	260		70	21	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
1,1'-Biphenyl	25	J	350	15	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Bis(2-chloroethoxy)methane	ND		350	17	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Bis(2-chloroethyl)ether	ND		70	13	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Bis(2-ethylhexyl) phthalate	ND		3500	370	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
4-Bromophenyl phenyl ether	ND		350	24	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Butyl benzyl phthalate	ND		350	240	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Caprolactam	ND		1800	230	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Carbazole	60	J	70	16	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
4-Chloroaniline	ND		350	12	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
4-Chloro-3-methylphenol	ND		350	16	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1

Client Sample ID: SSHS-CS1
Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-12
Matrix: Solid
Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		70	16	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2-Chlorophenol	ND		350	16	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
4-Chlorophenyl phenyl ether	ND		350	21	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Chrysene	**430**		70	14	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Dibenz(a,h)anthracene	**150**		70	16	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Dibenzofuran	**71**	**J**	350	15	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
3,3'-Dichlorobenzidine	ND		350	330	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2,4-Dichlorophenol	ND		70	27	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Diethyl phthalate	ND		350	84	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2,4-Dimethylphenol	ND		350	22	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Dimethyl phthalate	ND		350	13	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Di-n-butyl phthalate	ND		350	150	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
4,6-Dinitro-2-methylphenol	ND		1800	600	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2,4-Dinitrophenol	ND		3500	940	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2,4-Dinitrotoluene	ND		350	17	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2,6-Dinitrotoluene	ND		350	22	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Di-n-octyl phthalate	ND		350	200	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
1,4-Dioxane	ND		700	110	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Fluoranthene	**790**		70	18	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Fluorene	**55**	**J**	70	14	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Hexachlorobenzene	ND		70	25	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Hexachlorobutadiene	ND		70	20	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Hexachlorocyclopentadiene	ND		350	18	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Hexachloroethane	ND		350	18	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Indeno[1,2,3-cd]pyrene	**520**		70	14	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Isophorone	ND		350	18	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2-Methylnaphthalene	**77**		70	17	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2-Methylphenol	ND		350	100	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Methylphenol, 3 & 4	ND		350	100	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Naphthalene	**110**		70	14	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2-Nitroaniline	ND		1800	160	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
3-Nitroaniline	ND		1800	89	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
4-Nitroaniline	ND		1800	17	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Nitrobenzene	ND		700	130	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2-Nitrophenol	ND		350	20	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
4-Nitrophenol	ND		1800	240	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
N-Nitrosodi-n-propylamine	ND		70	24	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
N-Nitrosodiphenylamine	ND		350	120	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2,2'-oxybis[1-chloropropane]	ND		70	26	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Pentachlorophenol	ND		1800	560	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Phenanthrene	**400**		70	19	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Phenol	ND		350	110	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
Pyrene	**750**		70	17	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
1,2,4,5-Tetrachlorobenzene	ND		350	15	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2,3,4,6-Tetrachlorophenol	ND		350	150	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2,4,5-Trichlorophenol	ND		350	25	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1
2,4,6-Trichlorophenol	ND		350	19	ug/Kg	☼	07/16/18 15:33	07/18/18 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*47 - 105*	*07/16/18 15:33*	*07/18/18 19:39*	*1*

Client Sample ID: SSHS-CS1
Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-12
Matrix: Solid
Percent Solids: 93.6

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*59*		*35 - 105*	*07/16/18 15:33*	*07/18/18 19:39*	*1*
Nitrobenzene-d5 (Surr)	*63*		*47 - 105*	*07/16/18 15:33*	*07/18/18 19:39*	*1*
Phenol-d5 (Surr)	*61*		*38 - 105*	*07/16/18 15:33*	*07/18/18 19:39*	*1*
Terphenyl-d14 (Surr)	*73*		*42 - 105*	*07/16/18 15:33*	*07/18/18 19:39*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*20 - 111*	*07/16/18 15:33*	*07/18/18 19:39*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		360	120	ug/Kg	☼	07/14/18 15:24	07/16/18 21:01	20
PCB-1221	ND		360	230	ug/Kg	☼	07/14/18 15:24	07/16/18 21:01	20
PCB-1232	ND		360	210	ug/Kg	☼	07/14/18 15:24	07/16/18 21:01	20
PCB-1242	ND		360	210	ug/Kg	☼	07/14/18 15:24	07/16/18 21:01	20
PCB-1248	**16000**		360	280	ug/Kg	☼	07/14/18 15:24	07/16/18 21:01	20
PCB-1254	**6800**		360	240	ug/Kg	☼	07/14/18 15:24	07/16/18 21:01	20
PCB-1260	**780**		360	100	ug/Kg	☼	07/14/18 15:24	07/16/18 21:01	20
PCB-1262	ND		360	250	ug/Kg	☼	07/14/18 15:24	07/16/18 21:01	20
PCB-1268	ND		360	170	ug/Kg	☼	07/14/18 15:24	07/16/18 21:01	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*120*		*33 - 137*	*07/14/18 15:24*	*07/16/18 21:01*	*20*
DCB Decachlorobiphenyl (Surr)	*106*		*33 - 137*	*07/14/18 15:24*	*07/16/18 21:01*	*20*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/14/18 15:24*	*07/16/18 21:01*	*20*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/14/18 15:24*	*07/16/18 21:01*	*20*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7200**		21	3.0	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Antimony	**0.49**	**J**	1.0	0.36	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Arsenic	**10**		1.0	0.29	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Barium	**150**		21	1.1	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Beryllium	**0.37**	**J**	0.42	0.024	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Cadmium	**0.60**		0.52	0.038	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Calcium	**41000**		520	27	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Chromium	**20**		0.52	0.13	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Cobalt	**7.8**		5.2	0.31	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Copper	**150**		2.6	0.18	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Iron	**30000**		10	5.3	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Lead	**170**		1.0	0.26	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Magnesium	**5800**		520	34	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Manganese	**500**		1.6	0.17	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Nickel	**200**		4.2	0.26	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Potassium	**770**		520	36	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Selenium	**0.91**	**J**	1.0	0.54	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Silver	ND		0.52	0.11	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Sodium	**200**	**J**	520	27	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Thallium	ND		2.1	0.22	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Vanadium	**15**		5.2	0.73	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1
Zinc	**200**		2.1	1.1	mg/Kg	☼	07/16/18 13:55	07/17/18 10:46	1

Client Sample ID: SSHS-CS1

Lab Sample ID: 180-79745-12
Date Collected: 07/12/18 16:00
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 93.6

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.53**		0.029	0.0066	mg/Kg	☼	07/16/18 11:24	07/17/18 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.4**		0.1	0.1	%			07/16/18 09:11	1
Percent Solids	**93.6**		0.1	0.1	%			07/16/18 09:11	1

Client Sample ID: SSHS-CS2

Lab Sample ID: 180-79745-13
Date Collected: 07/12/18 16:00
Matrix: Solid
Date Received: 07/13/18 09:15
Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**180**	**J**	350	100	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Acenaphthylene	**200**	**J**	350	77	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Acetophenone	ND		3500	96	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Anthracene	**320**	**J**	350	92	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Atrazine	ND		3500	770	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Benzaldehyde	ND		3500	220	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Benzo[a]anthracene	**1600**		350	67	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Benzo[a]pyrene	**1100**		350	77	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Benzo[b]fluoranthene	**1900**		350	87	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Benzo[g,h,i]perylene	**1400**		350	76	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Benzo[k]fluoranthene	**590**		350	110	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
1,1'-Biphenyl	ND		1700	74	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Bis(2-chloroethoxy)methane	ND		1700	84	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Bis(2-chloroethyl)ether	ND		350	64	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Bis(2-ethylhexyl) phthalate	ND		17000	1900	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
4-Bromophenyl phenyl ether	ND		1700	120	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Butyl benzyl phthalate	ND		1700	1200	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Caprolactam	ND		9000	1100	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Carbazole	**190**	**J**	350	83	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
4-Chloroaniline	ND		1700	59	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
4-Chloro-3-methylphenol	ND		1700	83	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2-Chloronaphthalene	ND		350	81	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2-Chlorophenol	ND		1700	82	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
4-Chlorophenyl phenyl ether	ND		1700	110	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Chrysene	**1700**		350	69	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Dibenz(a,h)anthracene	**310**	**J**	350	79	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Dibenzofuran	**280**	**J**	1700	77	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
3,3'-Dichlorobenzidine	ND		1700	1600	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2,4-Dichlorophenol	ND		350	140	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Diethyl phthalate	ND		1700	430	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2,4-Dimethylphenol	ND		1700	110	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Dimethyl phthalate	ND		1700	64	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Di-n-butyl phthalate	ND		1700	770	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
4,6-Dinitro-2-methylphenol	ND		9000	3000	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2,4-Dinitrophenol	ND		17000	4800	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2,4-Dinitrotoluene	ND		1700	88	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2,6-Dinitrotoluene	ND		1700	110	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5

Client Sample ID: SSHS-CS2
Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-13
Matrix: Solid
Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		1700	1000	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
1,4-Dioxane	ND		3500	550	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Fluoranthene	**4300**		350	93	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Fluorene	**240**	**J**	350	69	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Hexachlorobenzene	ND		350	130	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Hexachlorobutadiene	ND		350	100	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Hexachlorocyclopentadiene	ND		1700	90	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Hexachloroethane	ND		1700	91	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Indeno[1,2,3-cd]pyrene	**1200**		350	72	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Isophorone	ND		1700	90	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2-Methylnaphthalene	**200**	**J**	350	85	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2-Methylphenol	ND		1700	510	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Methylphenol, 3 & 4	ND		1700	520	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Naphthalene	**210**	**J**	350	69	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2-Nitroaniline	ND		9000	810	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
3-Nitroaniline	ND		9000	450	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
4-Nitroaniline	ND		9000	86	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Nitrobenzene	ND		3500	650	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2-Nitrophenol	ND		1700	100	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
4-Nitrophenol	ND		9000	1200	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
N-Nitrosodi-n-propylamine	ND		350	120	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
N-Nitrosodiphenylamine	ND		1700	590	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2,2'-oxybis[1-chloropropane]	ND		350	130	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Pentachlorophenol	ND		9000	2800	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Phenanthrene	**1000**		350	95	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Phenol	ND		1700	540	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
Pyrene	**3400**		350	84	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
1,2,4,5-Tetrachlorobenzene	ND		1700	76	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2,3,4,6-Tetrachlorophenol	ND		1700	740	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2,4,5-Trichlorophenol	ND		1700	130	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5
2,4,6-Trichlorophenol	ND		1700	97	ug/Kg	☼	07/16/18 15:33	07/18/18 20:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*47 - 105*	*07/16/18 15:33*	*07/18/18 20:05*	*5*
2-Fluorophenol (Surr)	*62*		*35 - 105*	*07/16/18 15:33*	*07/18/18 20:05*	*5*
Nitrobenzene-d5 (Surr)	*67*		*47 - 105*	*07/16/18 15:33*	*07/18/18 20:05*	*5*
Phenol-d5 (Surr)	*65*		*38 - 105*	*07/16/18 15:33*	*07/18/18 20:05*	*5*
Terphenyl-d14 (Surr)	*82*		*42 - 105*	*07/16/18 15:33*	*07/18/18 20:05*	*5*
2,4,6-Tribromophenol (Surr)	*84*		*20 - 111*	*07/16/18 15:33*	*07/18/18 20:05*	*5*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.7	ug/Kg	☼	07/14/18 15:24	07/16/18 16:45	1
PCB-1221	ND		18	11	ug/Kg	☼	07/14/18 15:24	07/16/18 16:45	1
PCB-1232	ND		18	10	ug/Kg	☼	07/14/18 15:24	07/16/18 16:45	1
PCB-1242	ND		18	11	ug/Kg	☼	07/14/18 15:24	07/16/18 16:45	1
PCB-1248	**1600**		18	14	ug/Kg	☼	07/14/18 15:24	07/16/18 16:45	1
PCB-1254	**1100**		18	12	ug/Kg	☼	07/14/18 15:24	07/16/18 16:45	1
PCB-1260	**130**		18	5.0	ug/Kg	☼	07/14/18 15:24	07/16/18 16:45	1
PCB-1262	ND		18	12	ug/Kg	☼	07/14/18 15:24	07/16/18 16:45	1

Client Sample ID: SSHS-CS2

Date Collected: 07/12/18 16:00
Date Received: 07/13/18 09:15

Lab Sample ID: 180-79745-13

Matrix: Solid
Percent Solids: 93.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		18	8.6	ug/Kg	☼	07/14/18 15:24	07/16/18 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/14/18 15:24*	*07/16/18 16:45*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*07/14/18 15:24*	*07/16/18 16:45*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*07/14/18 15:24*	*07/16/18 16:45*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*07/14/18 15:24*	*07/16/18 16:45*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5100**		22	3.1	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Antimony	**0.51**	**J**	1.1	0.37	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Arsenic	**14**		1.1	0.30	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Barium	**130**		22	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Beryllium	**0.55**		0.44	0.025	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Cadmium	**0.41**	**J**	0.55	0.040	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Calcium	**20000**		550	29	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Chromium	**13**		0.55	0.13	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Cobalt	**9.0**		5.5	0.32	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Copper	**53**		2.7	0.18	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Iron	**20000**		11	5.6	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Lead	**61**		1.1	0.27	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Magnesium	**2700**		550	36	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Manganese	**270**		1.6	0.18	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Nickel	**31**		4.4	0.27	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Potassium	**820**		550	38	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Selenium	**2.3**		1.1	0.57	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Silver	ND		0.55	0.12	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Sodium	**400**	**J**	550	29	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Thallium	ND		2.2	0.23	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Vanadium	**18**		5.5	0.77	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1
Zinc	**130**		2.2	1.2	mg/Kg	☼	07/16/18 13:55	07/17/18 11:01	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.59**		0.032	0.0072	mg/Kg	☼	07/16/18 11:24	07/17/18 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.3**		0.1	0.1	%			07/17/18 08:20	1
Percent Solids	**93.8**		0.1	0.1	%			07/17/18 08:20	1

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

Lab Sample ID: MB 180-250696/1-A
Matrix: Solid
Analysis Batch: 250744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		67	19	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Acenaphthylene	ND		67	15	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Acetophenone	ND		670	18	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Anthracene	ND		67	17	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Atrazine	ND		670	150	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Benzaldehyde	ND		670	41	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Benzo[a]anthracene	ND		67	13	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Benzo[a]pyrene	ND		67	15	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Benzo[b]fluoranthene	ND		67	16	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Benzo[g,h,i]perylene	ND		67	14	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Benzo[k]fluoranthene	ND		67	20	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
1,1'-Biphenyl	ND		330	14	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Bis(2-chloroethoxy)methane	ND		330	16	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Bis(2-chloroethyl)ether	ND		67	12	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Bis(2-ethylhexyl) phthalate	ND		3300	360	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
4-Bromophenyl phenyl ether	ND		330	23	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Butyl benzyl phthalate	ND		330	230	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Caprolactam	ND		1700	220	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Carbazole	ND		67	16	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
4-Chloroaniline	ND		330	11	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
4-Chloro-3-methylphenol	ND		330	16	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2-Chloronaphthalene	ND		67	15	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2-Chlorophenol	ND		330	16	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
4-Chlorophenyl phenyl ether	ND		330	20	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Chrysene	ND		67	13	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Dibenz(a,h)anthracene	ND		67	15	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Dibenzofuran	ND		330	15	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
3,3'-Dichlorobenzidine	ND		330	310	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2,4-Dichlorophenol	ND		67	26	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Diethyl phthalate	ND		330	81	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2,4-Dimethylphenol	ND		330	21	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Dimethyl phthalate	ND		330	12	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Di-n-butyl phthalate	ND		330	150	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
4,6-Dinitro-2-methylphenol	ND		1700	580	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2,4-Dinitrophenol	ND		3300	900	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2,4-Dinitrotoluene	ND		330	17	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2,6-Dinitrotoluene	ND		330	21	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Di-n-octyl phthalate	ND		330	190	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
1,4-Dioxane	ND		670	100	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Fluoranthene	ND		67	18	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Fluorene	ND		67	13	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Hexachlorobenzene	ND		67	24	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Hexachlorobutadiene	ND		67	20	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Hexachlorocyclopentadiene	ND		330	17	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Hexachloroethane	ND		330	17	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Indeno[1,2,3-cd]pyrene	ND		67	14	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Isophorone	ND		330	17	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2-Methylnaphthalene	ND		67	16	ug/Kg		07/16/18 15:33	07/17/18 12:30	1

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

Lab Sample ID: MB 180-250696/1-A
Matrix: Solid
Analysis Batch: 250744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		330	96	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Methylphenol, 3 & 4	ND		330	98	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Naphthalene	ND		67	13	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2-Nitroaniline	ND		1700	150	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
3-Nitroaniline	ND		1700	85	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
4-Nitroaniline	ND		1700	16	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Nitrobenzene	ND		670	120	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2-Nitrophenol	ND		330	19	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
4-Nitrophenol	ND		1700	230	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
N-Nitrosodi-n-propylamine	ND		67	23	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
N-Nitrosodiphenylamine	ND		330	110	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2,2'-oxybis[1-chloropropane]	ND		67	25	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Pentachlorophenol	ND		1700	540	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Phenanthrene	ND		67	18	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Phenol	ND		330	100	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
Pyrene	ND		67	16	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
1,2,4,5-Tetrachlorobenzene	ND		330	14	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2,3,4,6-Tetrachlorophenol	ND		330	140	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2,4,5-Trichlorophenol	ND		330	24	ug/Kg		07/16/18 15:33	07/17/18 12:30	1
2,4,6-Trichlorophenol	ND		330	18	ug/Kg		07/16/18 15:33	07/17/18 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*47 - 105*	*07/16/18 15:33*	*07/17/18 12:30*	*1*
2-Fluorophenol (Surr)	*74*		*35 - 105*	*07/16/18 15:33*	*07/17/18 12:30*	*1*
Nitrobenzene-d5 (Surr)	*67*		*47 - 105*	*07/16/18 15:33*	*07/17/18 12:30*	*1*
Phenol-d5 (Surr)	*69*		*38 - 105*	*07/16/18 15:33*	*07/17/18 12:30*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 105*	*07/16/18 15:33*	*07/17/18 12:30*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*20 - 111*	*07/16/18 15:33*	*07/17/18 12:30*	*1*

Lab Sample ID: LCS 180-250696/2-A
Matrix: Solid
Analysis Batch: 250744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6670	4630		ug/Kg		70	45 - 101
Acenaphthylene	6670	4610		ug/Kg		69	47 - 102
Acetophenone	6670	4030		ug/Kg		60	42 - 100
Anthracene	6670	4380		ug/Kg		66	47 - 105
Atrazine	6670	2340		ug/Kg		35	10 - 122
Benzaldehyde	6670	2060		ug/Kg		31	10 - 119
Benzo[a]anthracene	6670	4060		ug/Kg		61	45 - 105
Benzo[a]pyrene	6670	3680		ug/Kg		55	48 - 100
Benzo[b]fluoranthene	6670	3640		ug/Kg		55	42 - 102
Benzo[g,h,i]perylene	6670	4240		ug/Kg		64	46 - 104
Benzo[k]fluoranthene	6670	3840		ug/Kg		58	48 - 100
1,1'-Biphenyl	6670	4590		ug/Kg		69	45 - 102
Bis(2-chloroethoxy)methane	6670	4280		ug/Kg		64	47 - 100
Bis(2-chloroethyl)ether	6670	4470		ug/Kg		67	46 - 101

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

Lab Sample ID: LCS 180-250696/2-A
Matrix: Solid
Analysis Batch: 250744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	6670	4680		ug/Kg		70	41 - 119
4-Bromophenyl phenyl ether	6670	4210		ug/Kg		63	44 - 109
Butyl benzyl phthalate	6670	4790		ug/Kg		72	41 - 121
Caprolactam	6670	4420		ug/Kg		66	50 - 112
Carbazole	6670	4720		ug/Kg		71	48 - 100
4-Chloroaniline	6670	4450		ug/Kg		67	48 - 100
4-Chloro-3-methylphenol	6670	4300		ug/Kg		65	49 - 105
2-Chloronaphthalene	6670	4330		ug/Kg		65	45 - 100
2-Chlorophenol	6670	4730		ug/Kg		71	49 - 103
4-Chlorophenyl phenyl ether	6670	4180		ug/Kg		63	45 - 104
Chrysene	6670	3880		ug/Kg		58	46 - 100
Dibenz(a,h)anthracene	6670	4350		ug/Kg		65	46 - 107
Dibenzofuran	6670	4470		ug/Kg		67	47 - 100
3,3'-Dichlorobenzidine	6670	3790		ug/Kg		57	44 - 102
2,4-Dichlorophenol	6670	4270		ug/Kg		64	48 - 105
Diethyl phthalate	6670	4650		ug/Kg		70	45 - 105
2,4-Dimethylphenol	6670	4140		ug/Kg		62	45 - 102
Dimethyl phthalate	6670	4340		ug/Kg		65	46 - 106
Di-n-butyl phthalate	6670	5160		ug/Kg		77	50 - 109
4,6-Dinitro-2-methylphenol	13300	8570		ug/Kg		64	34 - 126
2,4-Dinitrophenol	13300	7670		ug/Kg		58	29 - 114
2,4-Dinitrotoluene	6670	4580		ug/Kg		69	48 - 111
2,6-Dinitrotoluene	6670	4680		ug/Kg		70	48 - 109
Di-n-octyl phthalate	6670	4640		ug/Kg		70	35 - 124
1,4-Dioxane	6670	3740		ug/Kg		56	37 - 117
Fluoranthene	6670	4440		ug/Kg		67	49 - 104
Fluorene	6670	4560		ug/Kg		68	46 - 103
Hexachlorobenzene	6670	4350		ug/Kg		65	41 - 111
Hexachlorobutadiene	6670	3430		ug/Kg		51	36 - 113
Hexachlorocyclopentadiene	6670	3210		ug/Kg		48	30 - 120
Hexachloroethane	6670	4340		ug/Kg		65	47 - 101
Indeno[1,2,3-cd]pyrene	6670	4220		ug/Kg		63	46 - 107
Isophorone	6670	4000		ug/Kg		60	45 - 100
2-Methylnaphthalene	6670	4420		ug/Kg		66	49 - 100
2-Methylphenol	6670	4330		ug/Kg		65	48 - 103
Methylphenol, 3 & 4	6670	4420		ug/Kg		66	47 - 103
Naphthalene	6670	4300		ug/Kg		65	49 - 100
2-Nitroaniline	6670	4190		ug/Kg		63	40 - 117
3-Nitroaniline	6670	4990		ug/Kg		75	48 - 109
4-Nitroaniline	6670	4990		ug/Kg		75	45 - 109
Nitrobenzene	6670	4110		ug/Kg		62	44 - 103
2-Nitrophenol	6670	4940		ug/Kg		74	50 - 111
4-Nitrophenol	13300	8160		ug/Kg		61	32 - 126
N-Nitrosodi-n-propylamine	6670	4400		ug/Kg		66	43 - 108
N-Nitrosodiphenylamine	6670	4460		ug/Kg		67	46 - 105
2,2'-oxybis[1-chloropropane]	6670	4460		ug/Kg		67	29 - 115
Pentachlorophenol	13300	7130		ug/Kg		53	35 - 110
Phenanthrene	6670	4280		ug/Kg		64	46 - 103

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

Lab Sample ID: LCS 180-250696/2-A
Matrix: Solid
Analysis Batch: 250744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	6670	4270		ug/Kg		64	47 - 102
Pyrene	6670	4270		ug/Kg		64	43 - 107
1,2,4,5-Tetrachlorobenzene	6670	3860		ug/Kg		58	37 - 108
2,3,4,6-Tetrachlorophenol	6670	3800		ug/Kg		57	42 - 107
2,4,5-Trichlorophenol	6670	4000		ug/Kg		60	45 - 105
2,4,6-Trichlorophenol	6670	4500		ug/Kg		67	45 - 109

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*47 - 105*
2-Fluorophenol (Surr)	*70*		*35 - 105*
Nitrobenzene-d5 (Surr)	*63*		*47 - 105*
Phenol-d5 (Surr)	*66*		*38 - 105*
Terphenyl-d14 (Surr)	*69*		*42 - 105*
2,4,6-Tribromophenol (Surr)	*74*		*20 - 111*

Lab Sample ID: 180-79745-1 MS
Matrix: Solid
Analysis Batch: 250873

Client Sample ID: SSHS-P2
Prep Type: Total/NA
Prep Batch: 250696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		7150	4890		ug/Kg	☼	68	45 - 101
Acenaphthylene	51	J	7150	5070		ug/Kg	☼	70	47 - 102
Acetophenone	ND		7150	4160		ug/Kg	☼	58	42 - 100
Anthracene	58	J	7150	4700		ug/Kg	☼	65	47 - 105
Atrazine	ND		7150	2540		ug/Kg	☼	35	10 - 122
Benzaldehyde	ND		7150	1300	J	ug/Kg	☼	18	10 - 119
Benzo[a]anthracene	420		7150	4920		ug/Kg	☼	63	45 - 105
Benzo[a]pyrene	240		7150	4100		ug/Kg	☼	54	48 - 100
Benzo[b]fluoranthene	330		7150	4070		ug/Kg	☼	52	42 - 102
Benzo[g,h,i]perylene	210		7150	5150		ug/Kg	☼	69	46 - 104
Benzo[k]fluoranthene	ND		7150	3950		ug/Kg	☼	55	48 - 100
1,1'-Biphenyl	ND		7150	4900		ug/Kg	☼	68	45 - 102
Bis(2-chloroethoxy)methane	ND		7150	4410		ug/Kg	☼	62	47 - 100
Bis(2-chloroethyl)ether	ND		7150	4340		ug/Kg	☼	61	46 - 101
Bis(2-ethylhexyl) phthalate	ND		7150	5560	J	ug/Kg	☼	78	41 - 119
4-Bromophenyl phenyl ether	ND		7150	4650		ug/Kg	☼	65	44 - 109
Butyl benzyl phthalate	ND		7150	5590		ug/Kg	☼	78	41 - 121
Caprolactam	ND	F1	7150	1280	J F1	ug/Kg	☼	18	50 - 112
Carbazole	ND		7150	5010		ug/Kg	☼	70	48 - 100
4-Chloroaniline	ND	F1	7150	3200	F1	ug/Kg	☼	45	48 - 100
4-Chloro-3-methylphenol	ND		7150	4010		ug/Kg	☼	56	49 - 105
2-Chloronaphthalene	ND		7150	4740		ug/Kg	☼	66	45 - 100
2-Chlorophenol	ND		7150	4460		ug/Kg	☼	62	49 - 103
4-Chlorophenyl phenyl ether	ND		7150	4460		ug/Kg	☼	62	45 - 104
Chrysene	800		7150	4830		ug/Kg	☼	56	46 - 100
Dibenz(a,h)anthracene	ND		7150	5020		ug/Kg	☼	70	46 - 107
Dibenzofuran	ND		7150	4880		ug/Kg	☼	68	47 - 100
3,3'-Dichlorobenzidine	ND		7150	4430		ug/Kg	☼	62	44 - 102

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

Lab Sample ID: 180-79745-1 MS
Matrix: Solid
Analysis Batch: 250873

Client Sample ID: SSHS-P2
Prep Type: Total/NA
Prep Batch: 250696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	ND		7150	4050		ug/Kg	☼	57	48 - 105
Diethyl phthalate	ND		7150	4980		ug/Kg	☼	70	45 - 105
2,4-Dimethylphenol	ND		7150	3750		ug/Kg	☼	52	45 - 102
Dimethyl phthalate	ND		7150	4810		ug/Kg	☼	67	46 - 106
Di-n-butyl phthalate	ND		7150	5550		ug/Kg	☼	78	50 - 109
4,6-Dinitro-2-methylphenol	ND		14300	5000	J	ug/Kg	☼	35	34 - 126
2,4-Dinitrophenol	ND	F1	14300	ND	F1	ug/Kg	☼	0	29 - 114
2,4-Dinitrotoluene	ND		7150	4890		ug/Kg	☼	68	48 - 111
2,6-Dinitrotoluene	ND		7150	5030		ug/Kg	☼	70	48 - 109
Di-n-octyl phthalate	ND		7150	5170		ug/Kg	☼	72	35 - 124
1,4-Dioxane	ND		7150	3130		ug/Kg	☼	44	37 - 117
Fluoranthene	370		7150	5080		ug/Kg	☼	66	49 - 104
Fluorene	ND		7150	4800		ug/Kg	☼	67	46 - 103
Hexachlorobenzene	ND		7150	4750		ug/Kg	☼	66	41 - 111
Hexachlorobutadiene	ND		7150	3540		ug/Kg	☼	50	36 - 113
Hexachlorocyclopentadiene	ND		7150	2570		ug/Kg	☼	36	30 - 120
Hexachloroethane	ND		7150	4200		ug/Kg	☼	59	47 - 101
Indeno[1,2,3-cd]pyrene	160	J	7150	4920		ug/Kg	☼	67	46 - 107
Isophorone	ND		7150	4040		ug/Kg	☼	56	45 - 100
2-Methylnaphthalene	ND		7150	4540		ug/Kg	☼	64	49 - 100
2-Methylphenol	ND		7150	4170		ug/Kg	☼	58	48 - 103
Methylphenol, 3 & 4	ND		7150	4110		ug/Kg	☼	58	47 - 103
Naphthalene	71	J	7150	4500		ug/Kg	☼	62	49 - 100
2-Nitroaniline	ND		7150	4740	J	ug/Kg	☼	66	40 - 117
3-Nitroaniline	ND		7150	4890	J	ug/Kg	☼	68	48 - 109
4-Nitroaniline	ND		7150	5000	J	ug/Kg	☼	70	45 - 109
Nitrobenzene	ND		7150	4170		ug/Kg	☼	58	44 - 103
2-Nitrophenol	ND		7150	4510		ug/Kg	☼	63	50 - 111
4-Nitrophenol	ND		14300	5490	J	ug/Kg	☼	38	32 - 126
N-Nitrosodi-n-propylamine	ND		7150	4440		ug/Kg	☼	62	43 - 108
N-Nitrosodiphenylamine	ND		7150	5060		ug/Kg	☼	71	46 - 105
2,2'-oxybis[1-chloropropane]	ND		7150	4300		ug/Kg	☼	60	29 - 115
Pentachlorophenol	ND	F1 F2	14300	2380	J F1	ug/Kg	☼	17	35 - 110
Phenanthrene	280		7150	4940		ug/Kg	☼	65	46 - 103
Phenol	ND		7150	3740		ug/Kg	☼	52	47 - 102
Pyrene	460		7150	5270		ug/Kg	☼	67	43 - 107
1,2,4,5-Tetrachlorobenzene	ND		7150	4180		ug/Kg	☼	58	37 - 108
2,3,4,6-Tetrachlorophenol	ND	F1	7150	2660	F1	ug/Kg	☼	37	42 - 107
2,4,5-Trichlorophenol	ND		7150	3740		ug/Kg	☼	52	45 - 105
2,4,6-Trichlorophenol	ND		7150	4050		ug/Kg	☼	57	45 - 109

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*47 - 105*
2-Fluorophenol (Surr)	*56*		*35 - 105*
Nitrobenzene-d5 (Surr)	*60*		*47 - 105*
Phenol-d5 (Surr)	*56*		*38 - 105*
Terphenyl-d14 (Surr)	*67*		*42 - 105*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 111*

Lab Sample ID: 180-79745-1 MSD
Matrix: Solid
Analysis Batch: 250873

Client Sample ID: SSHS-P2
Prep Type: Total/NA
Prep Batch: 250696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		7200	5070		ug/Kg	☼	70	45 - 101	4	18
Acenaphthylene	51	J	7200	5350		ug/Kg	☼	74	47 - 102	5	18
Acetophenone	ND		7200	4430		ug/Kg	☼	62	42 - 100	6	17
Anthracene	58	J	7200	5120		ug/Kg	☼	70	47 - 105	9	16
Atrazine	ND		7200	2790		ug/Kg	☼	39	10 - 122	9	15
Benzaldehyde	ND		7200	1370	J	ug/Kg	☼	19	10 - 119	5	20
Benzo[a]anthracene	420		7200	5200		ug/Kg	☼	66	45 - 105	6	17
Benzo[a]pyrene	240		7200	4480		ug/Kg	☼	59	48 - 100	9	17
Benzo[b]fluoranthene	330		7200	4330		ug/Kg	☼	56	42 - 102	6	18
Benzo[g,h,i]perylene	210		7200	5600		ug/Kg	☼	75	46 - 104	8	16
Benzo[k]fluoranthene	ND		7200	4330		ug/Kg	☼	60	48 - 100	9	19
1,1'-Biphenyl	ND		7200	5160		ug/Kg	☼	72	45 - 102	5	20
Bis(2-chloroethoxy)methane	ND		7200	4630		ug/Kg	☼	64	47 - 100	5	18
Bis(2-chloroethyl)ether	ND		7200	4700		ug/Kg	☼	65	46 - 101	8	15
Bis(2-ethylhexyl) phthalate	ND		7200	5750	J	ug/Kg	☼	80	41 - 119	3	18
4-Bromophenyl phenyl ether	ND		7200	4960		ug/Kg	☼	69	44 - 109	6	16
Butyl benzyl phthalate	ND		7200	5890		ug/Kg	☼	82	41 - 121	5	16
Caprolactam	ND	F1	7200	1350	J F1	ug/Kg	☼	19	50 - 112	6	21
Carbazole	ND		7200	5430		ug/Kg	☼	75	48 - 100	8	16
4-Chloroaniline	ND	F1	7200	3360	F1	ug/Kg	☼	47	48 - 100	5	19
4-Chloro-3-methylphenol	ND		7200	4130		ug/Kg	☼	57	49 - 105	3	23
2-Chloronaphthalene	ND		7200	4880		ug/Kg	☼	68	45 - 100	3	19
2-Chlorophenol	ND		7200	4860		ug/Kg	☼	68	49 - 103	9	17
4-Chlorophenyl phenyl ether	ND		7200	4660		ug/Kg	☼	65	45 - 104	4	19
Chrysene	800		7200	5130		ug/Kg	☼	60	46 - 100	6	20
Dibenz(a,h)anthracene	ND		7200	5450		ug/Kg	☼	76	46 - 107	8	16
Dibenzofuran	ND		7200	5130		ug/Kg	☼	71	47 - 100	5	18
3,3'-Dichlorobenzidine	ND		7200	4560		ug/Kg	☼	63	44 - 102	3	16
2,4-Dichlorophenol	ND		7200	4240		ug/Kg	☼	59	48 - 105	5	19
Diethyl phthalate	ND		7200	5240		ug/Kg	☼	73	45 - 105	5	20
2,4-Dimethylphenol	ND		7200	3940		ug/Kg	☼	55	45 - 102	5	17
Dimethyl phthalate	ND		7200	5040		ug/Kg	☼	70	46 - 106	5	19
Di-n-butyl phthalate	ND		7200	5920		ug/Kg	☼	82	50 - 109	7	15
4,6-Dinitro-2-methylphenol	ND		14400	5080	J	ug/Kg	☼	35	34 - 126	1	15
2,4-Dinitrophenol	ND	F1	14400	ND	F1	ug/Kg	☼	0	29 - 114	NC	18
2,4-Dinitrotoluene	ND		7200	5230		ug/Kg	☼	73	48 - 111	7	20
2,6-Dinitrotoluene	ND		7200	5300		ug/Kg	☼	74	48 - 109	5	18
Di-n-octyl phthalate	ND		7200	5610		ug/Kg	☼	78	35 - 124	8	18
1,4-Dioxane	ND		7200	3370		ug/Kg	☼	47	37 - 117	7	16
Fluoranthene	370		7200	5510		ug/Kg	☼	71	49 - 104	8	17
Fluorene	ND		7200	5070		ug/Kg	☼	70	46 - 103	5	17
Hexachlorobenzene	ND		7200	5170		ug/Kg	☼	72	41 - 111	8	18
Hexachlorobutadiene	ND		7200	3540		ug/Kg	☼	49	36 - 113	0	17
Hexachlorocyclopentadiene	ND		7200	2720		ug/Kg	☼	38	30 - 120	6	20
Hexachloroethane	ND		7200	4650		ug/Kg	☼	65	47 - 101	10	17
Indeno[1,2,3-cd]pyrene	160	J	7200	5460		ug/Kg	☼	74	46 - 107	10	18
Isophorone	ND		7200	4190		ug/Kg	☼	58	45 - 100	4	18
2-Methylnaphthalene	ND		7200	4730		ug/Kg	☼	66	49 - 100	4	19
2-Methylphenol	ND		7200	4580		ug/Kg	☼	64	48 - 103	10	17
Methylphenol, 3 & 4	ND		7200	4520		ug/Kg	☼	63	47 - 103	9	15

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

Lab Sample ID: 180-79745-1 MSD
Matrix: Solid
Analysis Batch: 250873

Client Sample ID: SSHS-P2
Prep Type: Total/NA
Prep Batch: 250696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	71	J	7200	4650		ug/Kg	☼	64	49 - 100	3	19
2-Nitroaniline	ND		7200	5020	J	ug/Kg	☼	70	40 - 117	6	19
3-Nitroaniline	ND		7200	5230	J	ug/Kg	☼	73	48 - 109	7	17
4-Nitroaniline	ND		7200	5300	J	ug/Kg	☼	74	45 - 109	6	19
Nitrobenzene	ND		7200	4420		ug/Kg	☼	61	44 - 103	6	19
2-Nitrophenol	ND		7200	4710		ug/Kg	☼	65	50 - 111	4	19
4-Nitrophenol	ND		14400	5820		ug/Kg	☼	40	32 - 126	6	21
N-Nitrosodi-n-propylamine	ND		7200	4830		ug/Kg	☼	67	43 - 108	8	16
N-Nitrosodiphenylamine	ND		7200	5450		ug/Kg	☼	76	46 - 105	7	17
2,2'-oxybis[1-chloropropane]	ND		7200	4790		ug/Kg	☼	67	29 - 115	11	15
Pentachlorophenol	ND	F1 F2	14400	2880	J F1 F2	ug/Kg	☼	20	35 - 110	19	16
Phenanthrene	280		7200	5320		ug/Kg	☼	70	46 - 103	7	18
Phenol	ND		7200	4160		ug/Kg	☼	58	47 - 102	11	17
Pyrene	460		7200	5500		ug/Kg	☼	70	43 - 107	4	17
1,2,4,5-Tetrachlorobenzene	ND		7200	4410		ug/Kg	☼	61	37 - 108	5	19
2,3,4,6-Tetrachlorophenol	ND	F1	7200	2810	F1	ug/Kg	☼	39	42 - 107	6	18
2,4,5-Trichlorophenol	ND		7200	4160		ug/Kg	☼	58	45 - 105	11	21
2,4,6-Trichlorophenol	ND		7200	4190		ug/Kg	☼	58	45 - 109	3	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*47 - 105*
2-Fluorophenol (Surr)	*60*		*35 - 105*
Nitrobenzene-d5 (Surr)	*61*		*47 - 105*
Phenol-d5 (Surr)	*61*		*38 - 105*
Terphenyl-d14 (Surr)	*70*		*42 - 105*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 111*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-250578/1-C
Matrix: Solid
Analysis Batch: 250592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/14/18 15:24	07/16/18 10:11	1
PCB-1221	ND		17	11	ug/Kg		07/14/18 15:24	07/16/18 10:11	1
PCB-1232	ND		17	9.9	ug/Kg		07/14/18 15:24	07/16/18 10:11	1
PCB-1242	ND		17	10	ug/Kg		07/14/18 15:24	07/16/18 10:11	1
PCB-1248	ND		17	13	ug/Kg		07/14/18 15:24	07/16/18 10:11	1
PCB-1254	ND		17	11	ug/Kg		07/14/18 15:24	07/16/18 10:11	1
PCB-1260	ND		17	4.7	ug/Kg		07/14/18 15:24	07/16/18 10:11	1
PCB-1262	ND		17	12	ug/Kg		07/14/18 15:24	07/16/18 10:11	1
PCB-1268	ND		17	8.1	ug/Kg		07/14/18 15:24	07/16/18 10:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*07/14/18 15:24*	*07/16/18 10:11*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*07/14/18 15:24*	*07/16/18 10:11*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-250578/1-C
Matrix: Solid
Analysis Batch: 250592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250578

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	83		44 - 114	07/14/18 15:24	07/16/18 10:11	1
Tetrachloro-m-xylene (Surr)	76		44 - 114	07/14/18 15:24	07/16/18 10:11	1

Lab Sample ID: LCS 180-250578/2-C
Matrix: Solid
Analysis Batch: 250592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1330	1260		ug/Kg		95	46 - 122
PCB-1260	1330	1090		ug/Kg		82	51 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	91		33 - 137
DCB Decachlorobiphenyl (Surr)	86		33 - 137
Tetrachloro-m-xylene (Surr)	95		44 - 114
Tetrachloro-m-xylene (Surr)	88		44 - 114

Method: EPA 6010C - Metals (ICP)

Lab Sample ID: MB 180-250685/1-A
Matrix: Solid
Analysis Batch: 250845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	2.8	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Antimony	ND		1.0	0.34	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Arsenic	ND		1.0	0.28	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Barium	ND		20	1.1	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Beryllium	ND		0.40	0.023	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Cadmium	ND		0.50	0.036	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Calcium	ND		500	26	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Chromium	ND		0.50	0.12	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Cobalt	ND		5.0	0.29	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Copper	ND		2.5	0.17	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Iron	ND		10	5.1	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Lead	ND		1.0	0.25	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Magnesium	ND		500	33	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Manganese	ND		1.5	0.16	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Nickel	ND		4.0	0.25	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Potassium	ND		500	35	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Selenium	ND		1.0	0.52	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Silver	ND		0.50	0.11	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Sodium	ND		500	26	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Thallium	ND		2.0	0.21	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Vanadium	ND		5.0	0.70	mg/Kg		07/16/18 13:55	07/17/18 10:04	1
Zinc	ND		2.0	1.1	mg/Kg		07/16/18 13:55	07/17/18 10:04	1

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-250685/2-A
Matrix: Solid
Analysis Batch: 250845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	186		mg/Kg		93	80 - 120
Antimony	50.0	46.3		mg/Kg		93	80 - 120
Arsenic	50.0	46.0		mg/Kg		92	80 - 120
Barium	200	189		mg/Kg		94	80 - 120
Beryllium	5.00	4.78		mg/Kg		96	80 - 120
Cadmium	5.00	4.70		mg/Kg		94	80 - 120
Calcium	5000	4720		mg/Kg		94	80 - 120
Chromium	20.0	18.5		mg/Kg		93	80 - 120
Cobalt	50.0	46.6		mg/Kg		93	80 - 120
Copper	25.0	23.4		mg/Kg		94	80 - 120
Iron	100	96.4		mg/Kg		96	80 - 120
Lead	50.0	44.9		mg/Kg		90	80 - 120
Magnesium	5000	4600		mg/Kg		92	80 - 120
Manganese	50.0	46.6		mg/Kg		93	80 - 120
Nickel	50.0	46.6		mg/Kg		93	80 - 120
Potassium	5000	4630		mg/Kg		93	80 - 120
Selenium	50.0	45.7		mg/Kg		91	80 - 120
Silver	5.00	4.69		mg/Kg		94	80 - 120
Sodium	5000	4800		mg/Kg		96	80 - 120
Thallium	50.0	43.7		mg/Kg		87	80 - 120
Vanadium	50.0	46.3		mg/Kg		93	80 - 120
Zinc	50.0	46.2		mg/Kg		92	80 - 120

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-250659/1-A
Matrix: Solid
Analysis Batch: 250783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/16/18 11:24	07/17/18 11:32	1

Lab Sample ID: LCS 180-250659/2-A
Matrix: Solid
Analysis Batch: 250783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.410	0.413		mg/Kg		101	80 - 120

Method: 2540G - SM 2540G

Lab Sample ID: 180-79745-12 DU
Matrix: Solid
Analysis Batch: 250636

Client Sample ID: SSHS-CS1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	6.4		6.1		%		5	20
Percent Solids	93.6		93.9		%		0.3	20

Method: 2540G - SM 2540G (Continued)

Lab Sample ID: 180-79745-12 DU
Matrix: Solid
Analysis Batch: 250656

Client Sample ID: SSHS-CS1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	3.7			3.6		%				5	20
Percent Solids	96.3			96.4		%				0.2	20

Lab Sample ID: 180-79745-13 DU
Matrix: Solid
Analysis Batch: 250735

Client Sample ID: SSHS-CS2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	6.3			6.4		%				2	20
Percent Solids	93.8			93.6		%				0.1	20

GC/MS Semi VOA

Prep Batch: 250696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	3541	
180-79745-2	P1-10-12	Total/NA	Solid	3541	
180-79745-3	NBSW-10-12	Total/NA	Solid	3541	
180-79745-4	EBSW-10-12	Total/NA	Solid	3541	
180-79745-12	SSHS-CS1	Total/NA	Solid	3541	
180-79745-13	SSHS-CS2	Total/NA	Solid	3541	
MB 180-250696/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-250696/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-79745-1 MS	SSHS-P2	Total/NA	Solid	3541	
180-79745-1 MSD	SSHS-P2	Total/NA	Solid	3541	

Analysis Batch: 250744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-250696/1-A	Method Blank	Total/NA	Solid	EPA 8270D	250696
LCS 180-250696/2-A	Lab Control Sample	Total/NA	Solid	EPA 8270D	250696

Analysis Batch: 250873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	EPA 8270D	250696
180-79745-2	P1-10-12	Total/NA	Solid	EPA 8270D	250696
180-79745-3	NBSW-10-12	Total/NA	Solid	EPA 8270D	250696
180-79745-4	EBSW-10-12	Total/NA	Solid	EPA 8270D	250696
180-79745-12	SSHS-CS1	Total/NA	Solid	EPA 8270D	250696
180-79745-13	SSHS-CS2	Total/NA	Solid	EPA 8270D	250696
180-79745-1 MS	SSHS-P2	Total/NA	Solid	EPA 8270D	250696
180-79745-1 MSD	SSHS-P2	Total/NA	Solid	EPA 8270D	250696

GC Semi VOA

Prep Batch: 250578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	3541	
180-79745-2	P1-10-12	Total/NA	Solid	3541	
180-79745-3	NBSW-10-12	Total/NA	Solid	3541	
180-79745-4	EBSW-10-12	Total/NA	Solid	3541	
180-79745-5	SW-017-0-2	Total/NA	Solid	3541	
180-79745-6	SW-018-4-6	Total/NA	Solid	3541	
180-79745-7	SW-019-6-8	Total/NA	Solid	3541	
180-79745-8	SW-020-6-8	Total/NA	Solid	3541	
180-79745-9	SW-021-4-6	Total/NA	Solid	3541	
180-79745-10	SSHS-B1409-6-8	Total/NA	Solid	3541	
180-79745-11	SSHS-B1408-6-8	Total/NA	Solid	3541	
180-79745-12	SSHS-CS1	Total/NA	Solid	3541	
180-79745-13	SSHS-CS2	Total/NA	Solid	3541	
MB 180-250578/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-250578/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 250592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	EPA 8082A	250617

GC Semi VOA (Continued)

Analysis Batch: 250592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-2	P1-10-12	Total/NA	Solid	EPA 8082A	250617
180-79745-3	NBSW-10-12	Total/NA	Solid	EPA 8082A	250617
180-79745-4	EBSW-10-12	Total/NA	Solid	EPA 8082A	250617
180-79745-5	SW-017-0-2	Total/NA	Solid	EPA 8082A	250617
180-79745-6	SW-018-4-6	Total/NA	Solid	EPA 8082A	250617
180-79745-7	SW-019-6-8	Total/NA	Solid	EPA 8082A	250617
180-79745-8	SW-020-6-8	Total/NA	Solid	EPA 8082A	250617
180-79745-9	SW-021-4-6	Total/NA	Solid	EPA 8082A	250617
180-79745-10	SSHS-B1409-6-8	Total/NA	Solid	EPA 8082A	250617
180-79745-11	SSHS-B1408-6-8	Total/NA	Solid	EPA 8082A	250617
180-79745-12	SSHS-CS1	Total/NA	Solid	EPA 8082A	250617
180-79745-13	SSHS-CS2	Total/NA	Solid	EPA 8082A	250617
MB 180-250578/1-C	Method Blank	Total/NA	Solid	EPA 8082A	250617
LCS 180-250578/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	250617

Cleanup Batch: 250616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	3665A	250578
180-79745-2	P1-10-12	Total/NA	Solid	3665A	250578
180-79745-3	NBSW-10-12	Total/NA	Solid	3665A	250578
180-79745-4	EBSW-10-12	Total/NA	Solid	3665A	250578
180-79745-5	SW-017-0-2	Total/NA	Solid	3665A	250578
180-79745-6	SW-018-4-6	Total/NA	Solid	3665A	250578
180-79745-7	SW-019-6-8	Total/NA	Solid	3665A	250578
180-79745-8	SW-020-6-8	Total/NA	Solid	3665A	250578
180-79745-9	SW-021-4-6	Total/NA	Solid	3665A	250578
180-79745-10	SSHS-B1409-6-8	Total/NA	Solid	3665A	250578
180-79745-11	SSHS-B1408-6-8	Total/NA	Solid	3665A	250578
180-79745-12	SSHS-CS1	Total/NA	Solid	3665A	250578
180-79745-13	SSHS-CS2	Total/NA	Solid	3665A	250578
MB 180-250578/1-C	Method Blank	Total/NA	Solid	3665A	250578
LCS 180-250578/2-C	Lab Control Sample	Total/NA	Solid	3665A	250578

Cleanup Batch: 250617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	3660B	250616
180-79745-2	P1-10-12	Total/NA	Solid	3660B	250616
180-79745-3	NBSW-10-12	Total/NA	Solid	3660B	250616
180-79745-4	EBSW-10-12	Total/NA	Solid	3660B	250616
180-79745-5	SW-017-0-2	Total/NA	Solid	3660B	250616
180-79745-6	SW-018-4-6	Total/NA	Solid	3660B	250616
180-79745-7	SW-019-6-8	Total/NA	Solid	3660B	250616
180-79745-8	SW-020-6-8	Total/NA	Solid	3660B	250616
180-79745-9	SW-021-4-6	Total/NA	Solid	3660B	250616
180-79745-10	SSHS-B1409-6-8	Total/NA	Solid	3660B	250616
180-79745-11	SSHS-B1408-6-8	Total/NA	Solid	3660B	250616
180-79745-12	SSHS-CS1	Total/NA	Solid	3660B	250616
180-79745-13	SSHS-CS2	Total/NA	Solid	3660B	250616
MB 180-250578/1-C	Method Blank	Total/NA	Solid	3660B	250616
LCS 180-250578/2-C	Lab Control Sample	Total/NA	Solid	3660B	250616

Metals

Prep Batch: 250659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	7471B	
180-79745-2	P1-10-12	Total/NA	Solid	7471B	
180-79745-3	NBSW-10-12	Total/NA	Solid	7471B	
180-79745-4	EBSW-10-12	Total/NA	Solid	7471B	
180-79745-10	SSHS-B1409-6-8	Total/NA	Solid	7471B	
180-79745-11	SSHS-B1408-6-8	Total/NA	Solid	7471B	
180-79745-12	SSHS-CS1	Total/NA	Solid	7471B	
180-79745-13	SSHS-CS2	Total/NA	Solid	7471B	
MB 180-250659/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-250659/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 250685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	3050B	
180-79745-2	P1-10-12	Total/NA	Solid	3050B	
180-79745-3	NBSW-10-12	Total/NA	Solid	3050B	
180-79745-4	EBSW-10-12	Total/NA	Solid	3050B	
180-79745-10	SSHS-B1409-6-8	Total/NA	Solid	3050B	
180-79745-11	SSHS-B1408-6-8	Total/NA	Solid	3050B	
180-79745-12	SSHS-CS1	Total/NA	Solid	3050B	
180-79745-13	SSHS-CS2	Total/NA	Solid	3050B	
MB 180-250685/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-250685/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 250783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	EPA 7471B	250659
180-79745-2	P1-10-12	Total/NA	Solid	EPA 7471B	250659
180-79745-3	NBSW-10-12	Total/NA	Solid	EPA 7471B	250659
180-79745-4	EBSW-10-12	Total/NA	Solid	EPA 7471B	250659
180-79745-10	SSHS-B1409-6-8	Total/NA	Solid	EPA 7471B	250659
180-79745-11	SSHS-B1408-6-8	Total/NA	Solid	EPA 7471B	250659
180-79745-12	SSHS-CS1	Total/NA	Solid	EPA 7471B	250659
180-79745-13	SSHS-CS2	Total/NA	Solid	EPA 7471B	250659
MB 180-250659/1-A	Method Blank	Total/NA	Solid	EPA 7471B	250659
LCS 180-250659/2-A	Lab Control Sample	Total/NA	Solid	EPA 7471B	250659

Analysis Batch: 250845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	EPA 6010C	250685
180-79745-2	P1-10-12	Total/NA	Solid	EPA 6010C	250685
180-79745-3	NBSW-10-12	Total/NA	Solid	EPA 6010C	250685
180-79745-4	EBSW-10-12	Total/NA	Solid	EPA 6010C	250685
180-79745-4	EBSW-10-12	Total/NA	Solid	EPA 6010C	250685
180-79745-10	SSHS-B1409-6-8	Total/NA	Solid	EPA 6010C	250685
180-79745-11	SSHS-B1408-6-8	Total/NA	Solid	EPA 6010C	250685
180-79745-12	SSHS-CS1	Total/NA	Solid	EPA 6010C	250685
180-79745-13	SSHS-CS2	Total/NA	Solid	EPA 6010C	250685
MB 180-250685/1-A	Method Blank	Total/NA	Solid	EPA 6010C	250685
LCS 180-250685/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010C	250685

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-79745-1

General Chemistry

Analysis Batch: 250636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-1	SSHS-P2	Total/NA	Solid	2540G	
180-79745-2	P1-10-12	Total/NA	Solid	2540G	
180-79745-3	NBSW-10-12	Total/NA	Solid	2540G	
180-79745-4	EBSW-10-12	Total/NA	Solid	2540G	
180-79745-5	SW-017-0-2	Total/NA	Solid	2540G	
180-79745-6	SW-018-4-6	Total/NA	Solid	2540G	
180-79745-7	SW-019-6-8	Total/NA	Solid	2540G	
180-79745-8	SW-020-6-8	Total/NA	Solid	2540G	
180-79745-9	SW-021-4-6	Total/NA	Solid	2540G	
180-79745-10	SSHS-B1409-6-8	Total/NA	Solid	2540G	
180-79745-11	SSHS-B1408-6-8	Total/NA	Solid	2540G	
180-79745-12	SSHS-CS1	Total/NA	Solid	2540G	
180-79745-12 DU	SSHS-CS1	Total/NA	Solid	2540G	

Analysis Batch: 250656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-12 DU	SSHS-CS1	Total/NA	Solid	2540G	

Analysis Batch: 250735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-79745-13	SSHS-CS2	Total/NA	Solid	2540G	
180-79745-13 DU	SSHS-CS2	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matthew Schallinger, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 1 of
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 2
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:			
City: Columbia	TAT Requested (days): 1 Day turnaround.			
State, Zip: MD 21044				
Phone:	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:			
Site: Former Sperry Remington Site - North	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A, PCBs	82700-TCLP semivolatiles	8081B-TCLP Pesticides	8151A-TCLP Herbicides	6010C-TCLP RCRA Metals	7470A-TCLP Mercury	9014-Cyanide	9034_Calc-Sulfide	1020B-Ignitability	9045D-pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N											
SSWS-P2	7-12-18	1600	G	Solid	N		X	X	X	X	X	X	X	X	X		5	PCB, TAL Metals, TCLSVOC 3 Day TAT ok per Aron Krasnopoler DLD 7/13/18
				Solid	N													
				Solid	N													
				Solid	N													
				Solid	N													
				Solid	N													
				Solid	N													
				Solid	N													
				Solid	N													
				Solid	N													
				Solid	N													
				Water	N													

180-79745 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
M Schallinger	7/12/18 1900	Geosyntec	FedEx	7/12/18 1900	
Relinquished by:	Date/Time:	Company	Received by: Debbie Watson	Date/Time: 7-13-18	Company TAPIT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 915	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

...a Burlington
...unity Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Aron Krausnopfer	Site Contact: M. Schallinger	Date: 7/12/18	COC No:
Your Company Name here Geosyntec	Tel/Fax:	Lab Contact: D. Denlo	Carrier:	2 of 2 COCs
Address	Analysis Turnaround Time			Sampler:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx Phone	TAT if different from Below			Walk-in Client:
(xxx) xxx-xxxx FAX	☐ 2 weeks			Lab Sampling:
Project Name: Fmr. Sperry Remington -	☐ 1 week			
Site:	☑ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8082A-SOMol.2 PCBs	8270D-TCLP Semivolatiles	8081B-TCLP Pesticides	8151A-TCLP Herbicides	6010C-TCLP RCRA Metals	7470A-TCLP Mercury	9014-Cyanide	9034-Calc-Sulfide	1020B-Ignitability	9045D-pH		Sample Specific Notes:
PI-10-12	7-12-18	0950	G	S	5			x	x	x	x	x	x	x	x	x	x	PCB, TAL metal	*Please hold
NBSW-10-12	7-12-18	1010	G	S	5			x	x	x	x	x	x	x	x	x	x	TCL SVOC	for metals
EBSW-10-12	7-12-18	1000	G	S	5			x	x	x	x	x	x	x	x	x	x	3 day TAT	SSHSB1409-6-8
SW-017-0-2	7-12-18	945	G	S	2			x											SSHSB1408-6-8*
~~[illegible]~~ SW-018-4-6	7-12-18	1000	G	S	2			x										PCB only	3 day TAT
SW-019-6-8	7-12-18	1005	G	S	2			x											
SW-020-6-8	7-12-18	1010	G	S	2			x											cspl Aron Krausnopfer DED 7/13/18
SW-021-4-6	7-12-18	1010	G	S	2			x	x	x	x	x	x	x	x	x	x		
~~[illegible]~~ SSHSB1409-6-8	7-12-18	14:30	G	S	3			x	x	x	x	x	x	x	x	x	x	PCB, TAL metals	
~~[illegible]~~ SSHSB1408-6-8	7-12-18	14:20	G	S	3			x	x	x	x	x	x	x	x	x	x	3 day TAT	10 day TAT
SSHS-CS1	7-12-18	16:00	G	S	5			x	x	x	x	x	x	x	x	x	x	PCB, TAL Metals, TCL SVOC	
SSHS-CS2	7-12-18	16:00	G	S	5			x	x	x	x	x	x	x	x	x	x		3 day TAT

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: M. Schallinger	Company: Geosyntec	Date/Time: 7/12/18 1900	Received by: FedEx	Company:	Date/Time: 7/12/18 1900
Relinquished by:	Company:	Date/Time:	Received by: Denlue Watson	Company: TAPitt	Date/Time: 7-13-18
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 915

Form No. CA-C-WI-002, Rev. 4.14, dated 9/22/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-79745-1

Login Number: 79745
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	notation for analysis made to COC
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80110-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/29/2018 9:12:22 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 180-80110-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80110-1

Receipt
The samples were received on 7/25/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

GC Semi VOA
Method(s) 8082A: Samples NAT GAS (180-80110-5), DUPLICATE (180-80110-7), and the matrix spike/matrix spike duplicate of sample SSHS-B1325-SUB-2-4 (180-80110-1) had the recovery of surrogate tetrachloro-m-xylene above the control limits on one column. Sample NAT GAS 2 (180-80110-6) had the recovery of surrogates tetrachloro-m-xylene and decachlorobiphenyl above the control limits on one column.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-251723 (CCV 180-251723/4) was above criteria for 2 peaks for aroclor 1248 on column RTX-CLP1. The associated sample results for aroclor 1248 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-251723 (CCV 180-251723/5) was above criteria for aroclor 1016 on column RTX-CLP1 and above criteria for 2 peaks on column RTX-CLP2. As the CCV was high and aroclor 1016 was not detected in the associated samples, the results were reported.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80110-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80110-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80110-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80110-1	SSHS-B1325-SUB-2-4	Solid	07/24/18 14:00	07/25/18 09:00
180-80110-2	SSHS-B1373-SUB-8-10	Solid	07/24/18 15:00	07/25/18 09:00
180-80110-3	ELECTRIC 1	Solid	07/24/18 09:30	07/25/18 09:00
180-80110-4	ELECTRIC 2	Solid	07/24/18 09:40	07/25/18 09:00
180-80110-5	NAT GAS 1	Solid	07/24/18 09:50	07/25/18 09:00
180-80110-6	NAT GAS 2	Solid	07/24/18 10:00	07/25/18 09:00
180-80110-7	DUPLICATE	Solid	07/24/18 00:00	07/25/18 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80110-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80110-1

Client Sample ID: SSHS-B1325-SUB-2-4
Date Collected: 07/24/18 14:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			251731	07/26/18 09:57	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1325-SUB-2-4
Date Collected: 07/24/18 14:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-1
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	251642	07/25/18 15:26	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	251746	07/26/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	251748	07/26/18 11:39	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			251723	07/26/18 20:27	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1373-SUB-8-10
Date Collected: 07/24/18 15:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			251731	07/26/18 09:57	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1373-SUB-8-10
Date Collected: 07/24/18 15:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-2
Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	251642	07/25/18 15:26	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	251746	07/26/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	251748	07/26/18 11:39	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			251723	07/26/18 21:30	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: ELECTRIC 1
Date Collected: 07/24/18 09:30
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			251731	07/26/18 09:57	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80110-1

Client Sample ID: ELECTRIC 1

Lab Sample ID: 180-80110-3
Date Collected: 07/24/18 09:30
Matrix: Solid
Date Received: 07/25/18 09:00
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	251642	07/25/18 15:26	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	251746	07/26/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	251748	07/26/18 11:39	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			251723	07/26/18 21:51	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: ELECTRIC 2

Lab Sample ID: 180-80110-4
Date Collected: 07/24/18 09:40
Matrix: Solid
Date Received: 07/25/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			251731	07/26/18 09:57	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: ELECTRIC 2

Lab Sample ID: 180-80110-4
Date Collected: 07/24/18 09:40
Matrix: Solid
Date Received: 07/25/18 09:00
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	251642	07/25/18 15:26	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	251746	07/26/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	251748	07/26/18 11:39	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			251723	07/26/18 22:55	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: NAT GAS 1

Lab Sample ID: 180-80110-5
Date Collected: 07/24/18 09:50
Matrix: Solid
Date Received: 07/25/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			251731	07/26/18 09:57	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: NAT GAS 1

Lab Sample ID: 180-80110-5
Date Collected: 07/24/18 09:50
Matrix: Solid
Date Received: 07/25/18 09:00
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	251642	07/25/18 15:26	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	251746	07/26/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	251748	07/26/18 11:39	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			251723	07/26/18 23:16	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80110-1

Client Sample ID: NAT GAS 2
Date Collected: 07/24/18 10:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			251731	07/26/18 09:57	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: NAT GAS 2
Date Collected: 07/24/18 10:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-6
Matrix: Solid
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	251642	07/25/18 15:26	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	251746	07/26/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	251748	07/26/18 11:39	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			251723	07/26/18 23:38	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: DUPLICATE
Date Collected: 07/24/18 00:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			251731	07/26/18 09:57	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUPLICATE
Date Collected: 07/24/18 00:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-7
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	251642	07/25/18 15:26	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	251746	07/26/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	251748	07/26/18 11:39	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			251723	07/27/18 00:00	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80110-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

JMO = John Oravec

Client Sample ID: SSHS-B1325-SUB-2-4

Lab Sample ID: 180-80110-1
Date Collected: 07/24/18 14:00
Matrix: Solid
Date Received: 07/25/18 09:00
Percent Solids: 87.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	07/25/18 15:26	07/26/18 20:27	1
PCB-1221	ND		19	12	ug/Kg	☼	07/25/18 15:26	07/26/18 20:27	1
PCB-1232	ND		19	11	ug/Kg	☼	07/25/18 15:26	07/26/18 20:27	1
PCB-1242	ND		19	11	ug/Kg	☼	07/25/18 15:26	07/26/18 20:27	1
PCB-1248	**650**		19	15	ug/Kg	☼	07/25/18 15:26	07/26/18 20:27	1
PCB-1254	**310**		19	13	ug/Kg	☼	07/25/18 15:26	07/26/18 20:27	1
PCB-1260	**90**		19	5.3	ug/Kg	☼	07/25/18 15:26	07/26/18 20:27	1
PCB-1262	ND		19	13	ug/Kg	☼	07/25/18 15:26	07/26/18 20:27	1
PCB-1268	ND		19	9.0	ug/Kg	☼	07/25/18 15:26	07/26/18 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*106*		*33 - 137*	*07/25/18 15:26*	*07/26/18 20:27*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*33 - 137*	*07/25/18 15:26*	*07/26/18 20:27*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*07/25/18 15:26*	*07/26/18 20:27*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*	*07/25/18 15:26*	*07/26/18 20:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			07/26/18 09:57	1
Percent Solids	**87.9**		0.1	0.1	%			07/26/18 09:57	1

Client Sample ID: SSHS-B1373-SUB-8-10

Lab Sample ID: 180-80110-2
Date Collected: 07/24/18 15:00
Matrix: Solid
Date Received: 07/25/18 09:00
Percent Solids: 79.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.7	ug/Kg	☼	07/25/18 15:26	07/26/18 21:30	1
PCB-1221	ND		21	13	ug/Kg	☼	07/25/18 15:26	07/26/18 21:30	1
PCB-1232	ND		21	12	ug/Kg	☼	07/25/18 15:26	07/26/18 21:30	1
PCB-1242	ND		21	12	ug/Kg	☼	07/25/18 15:26	07/26/18 21:30	1
PCB-1248	ND		21	16	ug/Kg	☼	07/25/18 15:26	07/26/18 21:30	1
PCB-1254	**2500**		21	14	ug/Kg	☼	07/25/18 15:26	07/26/18 21:30	1
PCB-1260	ND		21	5.8	ug/Kg	☼	07/25/18 15:26	07/26/18 21:30	1
PCB-1262	ND		21	14	ug/Kg	☼	07/25/18 15:26	07/26/18 21:30	1
PCB-1268	ND		21	10	ug/Kg	☼	07/25/18 15:26	07/26/18 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*07/25/18 15:26*	*07/26/18 21:30*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*	*07/25/18 15:26*	*07/26/18 21:30*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/25/18 15:26*	*07/26/18 21:30*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/25/18 15:26*	*07/26/18 21:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.9**		0.1	0.1	%			07/26/18 09:57	1
Percent Solids	**79.1**		0.1	0.1	%			07/26/18 09:57	1

Client Sample ID: ELECTRIC 1

Lab Sample ID: 180-80110-3
Date Collected: 07/24/18 09:30
Matrix: Solid
Date Received: 07/25/18 09:00
Percent Solids: 88.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	07/25/18 15:26	07/26/18 21:51	1
PCB-1221	ND		19	12	ug/Kg	☼	07/25/18 15:26	07/26/18 21:51	1
PCB-1232	ND		19	11	ug/Kg	☼	07/25/18 15:26	07/26/18 21:51	1
PCB-1242	ND		19	11	ug/Kg	☼	07/25/18 15:26	07/26/18 21:51	1
PCB-1248	**620**		19	15	ug/Kg	☼	07/25/18 15:26	07/26/18 21:51	1
PCB-1254	**360**		19	13	ug/Kg	☼	07/25/18 15:26	07/26/18 21:51	1
PCB-1260	**120**		19	5.3	ug/Kg	☼	07/25/18 15:26	07/26/18 21:51	1
PCB-1262	ND		19	13	ug/Kg	☼	07/25/18 15:26	07/26/18 21:51	1
PCB-1268	ND		19	9.0	ug/Kg	☼	07/25/18 15:26	07/26/18 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/25/18 15:26*	*07/26/18 21:51*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*07/25/18 15:26*	*07/26/18 21:51*	*1*
Tetrachloro-m-xylene (Surr)	*72*	*p*	*44 - 114*	*07/25/18 15:26*	*07/26/18 21:51*	*1*
Tetrachloro-m-xylene (Surr)	*112*		*44 - 114*	*07/25/18 15:26*	*07/26/18 21:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/26/18 09:57	1
Percent Solids	**88.7**		0.1	0.1	%			07/26/18 09:57	1

Client Sample ID: ELECTRIC 2

Lab Sample ID: 180-80110-4
Date Collected: 07/24/18 09:40
Matrix: Solid
Date Received: 07/25/18 09:00
Percent Solids: 88.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	07/25/18 15:26	07/26/18 22:55	1
PCB-1221	ND		19	12	ug/Kg	☼	07/25/18 15:26	07/26/18 22:55	1
PCB-1232	ND		19	11	ug/Kg	☼	07/25/18 15:26	07/26/18 22:55	1
PCB-1242	ND		19	11	ug/Kg	☼	07/25/18 15:26	07/26/18 22:55	1
PCB-1248	**2600**		19	15	ug/Kg	☼	07/25/18 15:26	07/26/18 22:55	1
PCB-1254	**1000**		19	13	ug/Kg	☼	07/25/18 15:26	07/26/18 22:55	1
PCB-1260	**330**		19	5.3	ug/Kg	☼	07/25/18 15:26	07/26/18 22:55	1
PCB-1262	ND		19	13	ug/Kg	☼	07/25/18 15:26	07/26/18 22:55	1
PCB-1268	ND		19	9.0	ug/Kg	☼	07/25/18 15:26	07/26/18 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*07/25/18 15:26*	*07/26/18 22:55*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*07/25/18 15:26*	*07/26/18 22:55*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*07/25/18 15:26*	*07/26/18 22:55*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*07/25/18 15:26*	*07/26/18 22:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/26/18 09:57	1
Percent Solids	**88.7**		0.1	0.1	%			07/26/18 09:57	1

Client Sample ID: NAT GAS 1

Date Collected: 07/24/18 09:50
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-5

Matrix: Solid
Percent Solids: 90.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.8	ug/Kg	☼	07/25/18 15:26	07/26/18 23:16	1
PCB-1221	ND		18	12	ug/Kg	☼	07/25/18 15:26	07/26/18 23:16	1
PCB-1232	ND		18	11	ug/Kg	☼	07/25/18 15:26	07/26/18 23:16	1
PCB-1242	ND		18	11	ug/Kg	☼	07/25/18 15:26	07/26/18 23:16	1
PCB-1248	**230**		18	14	ug/Kg	☼	07/25/18 15:26	07/26/18 23:16	1
PCB-1254	**170**		18	12	ug/Kg	☼	07/25/18 15:26	07/26/18 23:16	1
PCB-1260	**51**		18	5.1	ug/Kg	☼	07/25/18 15:26	07/26/18 23:16	1
PCB-1262	ND		18	13	ug/Kg	☼	07/25/18 15:26	07/26/18 23:16	1
PCB-1268	ND		18	8.7	ug/Kg	☼	07/25/18 15:26	07/26/18 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*07/25/18 15:26*	*07/26/18 23:16*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*07/25/18 15:26*	*07/26/18 23:16*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*07/25/18 15:26*	*07/26/18 23:16*	*1*
Tetrachloro-m-xylene (Surr)	*119*	*X*	*44 - 114*	*07/25/18 15:26*	*07/26/18 23:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			07/26/18 09:57	1
Percent Solids	**90.8**		0.1	0.1	%			07/26/18 09:57	1

Client Sample ID: NAT GAS 2

Date Collected: 07/24/18 10:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-6

Matrix: Solid
Percent Solids: 89.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	07/25/18 15:26	07/26/18 23:38	1
PCB-1221	ND		18	12	ug/Kg	☼	07/25/18 15:26	07/26/18 23:38	1
PCB-1232	ND		18	11	ug/Kg	☼	07/25/18 15:26	07/26/18 23:38	1
PCB-1242	ND		18	11	ug/Kg	☼	07/25/18 15:26	07/26/18 23:38	1
PCB-1248	**760**		18	15	ug/Kg	☼	07/25/18 15:26	07/26/18 23:38	1
PCB-1254	**320**		18	13	ug/Kg	☼	07/25/18 15:26	07/26/18 23:38	1
PCB-1260	**100**		18	5.2	ug/Kg	☼	07/25/18 15:26	07/26/18 23:38	1
PCB-1262	ND		18	13	ug/Kg	☼	07/25/18 15:26	07/26/18 23:38	1
PCB-1268	ND		18	8.9	ug/Kg	☼	07/25/18 15:26	07/26/18 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*	*p*	*33 - 137*	*07/25/18 15:26*	*07/26/18 23:38*	*1*
DCB Decachlorobiphenyl (Surr)	*154*	*X*	*33 - 137*	*07/25/18 15:26*	*07/26/18 23:38*	*1*
Tetrachloro-m-xylene (Surr)	*81*	*p*	*44 - 114*	*07/25/18 15:26*	*07/26/18 23:38*	*1*
Tetrachloro-m-xylene (Surr)	*148*	*X*	*44 - 114*	*07/25/18 15:26*	*07/26/18 23:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/26/18 09:57	1
Percent Solids	**89.7**		0.1	0.1	%			07/26/18 09:57	1

Client Sample ID: DUPLICATE
Date Collected: 07/24/18 00:00
Date Received: 07/25/18 09:00

Lab Sample ID: 180-80110-7
Matrix: Solid
Percent Solids: 88.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/25/18 15:26	07/27/18 00:00	1
PCB-1221	ND		19	12	ug/Kg	☼	07/25/18 15:26	07/27/18 00:00	1
PCB-1232	ND		19	11	ug/Kg	☼	07/25/18 15:26	07/27/18 00:00	1
PCB-1242	ND		19	11	ug/Kg	☼	07/25/18 15:26	07/27/18 00:00	1
PCB-1248	**670**		19	15	ug/Kg	☼	07/25/18 15:26	07/27/18 00:00	1
PCB-1254	**440**		19	13	ug/Kg	☼	07/25/18 15:26	07/27/18 00:00	1
PCB-1260	**150**		19	5.3	ug/Kg	☼	07/25/18 15:26	07/27/18 00:00	1
PCB-1262	ND		19	13	ug/Kg	☼	07/25/18 15:26	07/27/18 00:00	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/25/18 15:26	07/27/18 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*07/25/18 15:26*	*07/27/18 00:00*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*07/25/18 15:26*	*07/27/18 00:00*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/25/18 15:26*	*07/27/18 00:00*	*1*
Tetrachloro-m-xylene (Surr)	*122*	*X*	*44 - 114*	*07/25/18 15:26*	*07/27/18 00:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			07/26/18 09:57	1
Percent Solids	**88.9**		0.1	0.1	%			07/26/18 09:57	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-251642/1-A
Matrix: Solid
Analysis Batch: 251723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 251642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/25/18 15:26	07/26/18 16:55	1
PCB-1221	ND		17	11	ug/Kg		07/25/18 15:26	07/26/18 16:55	1
PCB-1232	ND		17	9.9	ug/Kg		07/25/18 15:26	07/26/18 16:55	1
PCB-1242	ND		17	10	ug/Kg		07/25/18 15:26	07/26/18 16:55	1
PCB-1248	ND		17	13	ug/Kg		07/25/18 15:26	07/26/18 16:55	1
PCB-1254	ND		17	11	ug/Kg		07/25/18 15:26	07/26/18 16:55	1
PCB-1260	ND		17	4.7	ug/Kg		07/25/18 15:26	07/26/18 16:55	1
PCB-1262	ND		17	12	ug/Kg		07/25/18 15:26	07/26/18 16:55	1
PCB-1268	ND		17	8.1	ug/Kg		07/25/18 15:26	07/26/18 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*33 - 137*	*07/25/18 15:26*	*07/26/18 16:55*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*33 - 137*	*07/25/18 15:26*	*07/26/18 16:55*	*1*
Tetrachloro-m-xylene (Surr)	*113*		*44 - 114*	*07/25/18 15:26*	*07/26/18 16:55*	*1*
Tetrachloro-m-xylene (Surr)	*112*		*44 - 114*	*07/25/18 15:26*	*07/26/18 16:55*	*1*

Lab Sample ID: LCS 180-251642/2-A
Matrix: Solid
Analysis Batch: 251723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 251642

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1070		ug/Kg		81	46 - 122		
PCB-1260			1330	1120		ug/Kg		84	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*112*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*102*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*

Lab Sample ID: 180-80110-1 MS
Matrix: Solid
Analysis Batch: 251723

Client Sample ID: SSHS-B1325-SUB-2-4
Prep Type: Total/NA
Prep Batch: 251642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1520	1090		ug/Kg	☼	72	46 - 122		
PCB-1260	90		1520	1110		ug/Kg	☼	67	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*78*	*p*	*44 - 114*
Tetrachloro-m-xylene (Surr)	*126*	*X*	*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-80110-1 MSD
Matrix: Solid
Analysis Batch: 251723

Client Sample ID: SSHS-B1325-SUB-2-4
Prep Type: Total/NA
Prep Batch: 251642

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1500	1370		ug/Kg	☼	92	46 - 122	23	23
PCB-1260	90		1500	1270		ug/Kg	☼	79	51 - 119	14	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*111*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*81*	*p*	*44 - 114*
Tetrachloro-m-xylene (Surr)	*124*	*X*	*44 - 114*

Method: 2540G - SM 2540G

Lab Sample ID: 180-80110-1 DU
Matrix: Solid
Analysis Batch: 251731

Client Sample ID: SSHS-B1325-SUB-2-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.1			14.5		%				19	20
Percent Solids	87.9			85.5		%				3	20

GC Semi VOA

Prep Batch: 251642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80110-1	SSHS-B1325-SUB-2-4	Total/NA	Solid	3541	
180-80110-2	SSHS-B1373-SUB-8-10	Total/NA	Solid	3541	
180-80110-3	ELECTRIC 1	Total/NA	Solid	3541	
180-80110-4	ELECTRIC 2	Total/NA	Solid	3541	
180-80110-5	NAT GAS 1	Total/NA	Solid	3541	
180-80110-6	NAT GAS 2	Total/NA	Solid	3541	
180-80110-7	DUPLICATE	Total/NA	Solid	3541	
MB 180-251642/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-251642/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-80110-1 MS	SSHS-B1325-SUB-2-4	Total/NA	Solid	3541	
180-80110-1 MSD	SSHS-B1325-SUB-2-4	Total/NA	Solid	3541	

Analysis Batch: 251723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80110-1	SSHS-B1325-SUB-2-4	Total/NA	Solid	EPA 8082A	251748
180-80110-2	SSHS-B1373-SUB-8-10	Total/NA	Solid	EPA 8082A	251748
180-80110-3	ELECTRIC 1	Total/NA	Solid	EPA 8082A	251748
180-80110-4	ELECTRIC 2	Total/NA	Solid	EPA 8082A	251748
180-80110-5	NAT GAS 1	Total/NA	Solid	EPA 8082A	251748
180-80110-6	NAT GAS 2	Total/NA	Solid	EPA 8082A	251748
180-80110-7	DUPLICATE	Total/NA	Solid	EPA 8082A	251748
MB 180-251642/1-A	Method Blank	Total/NA	Solid	EPA 8082A	251642
LCS 180-251642/2-A	Lab Control Sample	Total/NA	Solid	EPA 8082A	251642
180-80110-1 MS	SSHS-B1325-SUB-2-4	Total/NA	Solid	EPA 8082A	251748
180-80110-1 MSD	SSHS-B1325-SUB-2-4	Total/NA	Solid	EPA 8082A	251748

Cleanup Batch: 251746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80110-1	SSHS-B1325-SUB-2-4	Total/NA	Solid	3665A	251642
180-80110-2	SSHS-B1373-SUB-8-10	Total/NA	Solid	3665A	251642
180-80110-3	ELECTRIC 1	Total/NA	Solid	3665A	251642
180-80110-4	ELECTRIC 2	Total/NA	Solid	3665A	251642
180-80110-5	NAT GAS 1	Total/NA	Solid	3665A	251642
180-80110-6	NAT GAS 2	Total/NA	Solid	3665A	251642
180-80110-7	DUPLICATE	Total/NA	Solid	3665A	251642
180-80110-1 MS	SSHS-B1325-SUB-2-4	Total/NA	Solid	3665A	251642
180-80110-1 MSD	SSHS-B1325-SUB-2-4	Total/NA	Solid	3665A	251642

Cleanup Batch: 251748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80110-1	SSHS-B1325-SUB-2-4	Total/NA	Solid	3660B	251746
180-80110-2	SSHS-B1373-SUB-8-10	Total/NA	Solid	3660B	251746
180-80110-3	ELECTRIC 1	Total/NA	Solid	3660B	251746
180-80110-4	ELECTRIC 2	Total/NA	Solid	3660B	251746
180-80110-5	NAT GAS 1	Total/NA	Solid	3660B	251746
180-80110-6	NAT GAS 2	Total/NA	Solid	3660B	251746
180-80110-7	DUPLICATE	Total/NA	Solid	3660B	251746
180-80110-1 MS	SSHS-B1325-SUB-2-4	Total/NA	Solid	3660B	251746
180-80110-1 MSD	SSHS-B1325-SUB-2-4	Total/NA	Solid	3660B	251746

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80110-1

General Chemistry

Analysis Batch: 251731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80110-1	SSHS-B1325-SUB-2-4	Total/NA	Solid	2540G	
180-80110-2	SSHS-B1373-SUB-8-10	Total/NA	Solid	2540G	
180-80110-3	ELECTRIC 1	Total/NA	Solid	2540G	
180-80110-4	ELECTRIC 2	Total/NA	Solid	2540G	
180-80110-5	NAT GAS 1	Total/NA	Solid	2540G	
180-80110-6	NAT GAS 2	Total/NA	Solid	2540G	
180-80110-7	DUPLICATE	Total/NA	Solid	2540G	
180-80110-1 DU	SSHS-B1325-SUB-2-4	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-80110 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna	Lab PM: Dunlap, David A	COC No: 1 of 2
Client Contact: Aron Krasnopoler	Phone: 202-550-7724	E-Mail: david.dunlap@testamericainc.com	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.			Job #:
Address: 10211 Wincopin Cr. 4th Floor	Due Date Requested:		
City: Columbia	TAT Requested (days): 3 days		
State, Zip: MD, 20910			
Phone: 202-550-7724	PO #: MN0832D		
Email: akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #:		
Site: Former Sperry Remington Site - North IRM	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

* Sodium bisulfate ferracore 07/25/18

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	8082A PCBs	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A	N		
SSHS-B1325-SUB-2-4	7/24/18	1400	C	Solid	N	N					X	2	Perform MS/MSD
SSHS-B1373-SUB-8-10	7/24/18	1500	C	Solid	N	N					X	2	
Electric 1	7/24/18	0930	C	Solid	N	N					X	2	
Electric 2	7/24/18	0940	C	Solid	N	N					X	2	
NAT GAS 1		0950	C	Solid	N	N					X	2	
NAT GAS 2		1000	C	Solid	N	N					X	2	
Duplicate		—	C	Solid	N	N					X	2	
WS107242018C		1331	C	Solid	N	N		X	X			2	
WS107242018D		1301	C	Solid	N	N		X	X			2	
WS3 07242018 A *		1220	G	Solid	N	N	X					4	
WS3 07242018 B *		1240	G	Solid	N	N	X					4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex		
Relinquished by: Ashwin Ranna	Date/Time: 7/24/2018 1830	Company: Geosyntec	Received by:	Date/Time: 7/25/18 900	Company: TA Pitt
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 2 of 2
Client Contact: Aron Krasnopoler	Phone: 202-550-7724	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Cr. 4th Floor	Due Date Requested:			
City: Columbia	TAT Requested (days): 3 days			
State, Zip: MD, 20910	PO #: MN0832D			
Phone: 202-550-7724	WO #:			
Email: akrasnopoler@geosyntec.com	Project #:			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site: Former Sperry Remington Site - North IRM				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

* - sodium bisulfate terracore 7/25/18

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	8082A PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	A		X	
W1S30724 2018 L *	7/24/2018	1250	G	Solid	N	N	X					4	
W3S107 24 2018 A *	7/24/2018	1310	G	Solid	N	N	X					4	
W3S107 24 2018 B	7/24/2018	1320	G	Solid	N	N	X					4	
Trip Blanks 7/24 2018	—	—	C	Solid	N	N				X		2	
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Refer COC 1

7/29/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80110-1

Login Number: 80110
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80249-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/2/2018 9:40:45 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80249-1

Job ID: 180-80249-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80249-1

Receipt
The samples were received on 7/27/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-252049 was above criteria for the following analyte: acetone. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. Acetone was detected below the reporting limit in the associated sample.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-252080 was below criteria for the following analytes: 1,1,2,2-tetrachloroethane, 1,2-dibromo-3-chloropropane, 4-methyl-2-pentanone, bromoform, and chloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. These analytes were not detected in the associated samples.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-252569 was below criteria for the following analytes: 2-butanone and 4-methyl-2-pentanone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. These analytes were not detected in the associated sample.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-252569 was above criteria for the following analyte: trichlorofluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. Trichlorofluoromethane was not detected in the associated sample

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80249-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80249-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
EPA 8260C	5035	Solid	Cyclohexane

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
EPA 8260C		Water	1,2,3-Trichlorobenzene

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80249-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80249-1	G-3-4-41330	Solid	07/26/18 13:30	07/27/18 09:00
180-80249-2	HYD1	Solid	07/26/18 13:35	07/27/18 09:00
180-80249-3	DUP-07262018-1	Solid	07/26/18 00:00	07/27/18 09:00
180-80249-4	TRIP BLANK	Water	07/26/18 00:00	07/27/18 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80249-1

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
5030C	Purge and Trap	SW846	TAL PIT
5035	Closed System Purge and Trap	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80249-1

Client Sample ID: G-3-4-41330
Date Collected: 07/26/18 13:30
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252136	07/30/18 12:00	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-3-4-41330
Date Collected: 07/26/18 13:30
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-1
Matrix: Solid
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.3658 g	5 mL	252050	07/29/18 11:00	KLG	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	252049	07/29/18 17:07	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: HYD1
Date Collected: 07/26/18 13:35
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252136	07/30/18 12:00	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: HYD1
Date Collected: 07/26/18 13:35
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-2
Matrix: Solid
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.819 g	5 mL	252050	07/29/18 11:00	KLG	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	252080	07/30/18 10:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-07262018-1
Date Collected: 07/26/18 00:00
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252136	07/30/18 12:00	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-07262018-1
Date Collected: 07/26/18 00:00
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-3
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.9429 g	5 mL	252050	07/29/18 11:00	KLG	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80249-1

Client Sample ID: DUP-07262018-1

Date Collected: 07/26/18 00:00
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-3
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	252080	07/30/18 10:47	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: TRIP BLANK

Date Collected: 07/26/18 00:00
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	252569	08/02/18 12:49	PJJ	TAL PIT
	Instrument ID: CHHP10									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KLG = Kathy Gordon

Batch Type: Analysis

AVS = Abbey Smith

KLG = Kathy Gordon

PJJ = Patrick Journet

Client Sample ID: G-3-4-41330
Date Collected: 07/26/18 13:30
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-1
Matrix: Solid
Percent Solids: 85.3

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	16	J	27	4.2	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Benzene	ND		6.7	2.6	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Bromoform	ND		6.7	3.5	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Bromomethane	ND		6.7	6.0	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
2-Butanone (MEK)	ND		6.7	3.9	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Carbon disulfide	ND		6.7	4.0	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Carbon tetrachloride	ND		6.7	4.5	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Chlorobenzene	ND		6.7	2.1	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Chlorobromomethane	ND		6.7	2.6	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Chlorodibromomethane	ND		6.7	3.2	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Chloroethane	ND		6.7	3.5	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Chloroform	ND		6.7	2.8	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Chloromethane	ND		6.7	5.2	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
cis-1,2-Dichloroethene	ND		6.7	2.1	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
cis-1,3-Dichloropropene	ND		6.7	2.1	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Cyclohexane	ND		6.7	1.6	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,2-Dibromo-3-Chloropropane	ND		6.7	4.1	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,2-Dibromoethane	ND		6.7	3.7	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,2-Dichlorobenzene	ND		6.7	5.4	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,3-Dichlorobenzene	ND		6.7	2.1	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,4-Dichlorobenzene	ND		6.7	1.4	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Dichlorobromomethane	ND		6.7	3.2	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Dichlorodifluoromethane	ND		6.7	3.9	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,1-Dichloroethane	ND		6.7	2.4	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,2-Dichloroethane	ND		6.7	1.9	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,1-Dichloroethene	ND		6.7	3.8	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,2-Dichloroethene, Total	ND		13	5.3	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,2-Dichloropropane	ND		6.7	3.3	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,4-Dioxane	ND		1300	49	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Ethylbenzene	ND		6.7	2.9	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
2-Hexanone	ND		6.7	5.6	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Isopropylbenzene	ND		6.7	3.1	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Methyl acetate	ND		34	7.9	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Methylcyclohexane	ND		6.7	2.8	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Methylene Chloride	ND		6.7	3.2	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
4-Methyl-2-pentanone (MIBK)	ND		6.7	2.5	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Methyl tert-butyl ether	ND		6.7	4.9	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
m-Xylene & p-Xylene	ND		6.7	2.5	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
o-Xylene	ND		6.7	3.3	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Styrene	ND		6.7	1.8	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,1,2,2-Tetrachloroethane	ND		6.7	4.0	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Tetrachloroethene	ND		6.7	2.7	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Toluene	ND		6.7	2.3	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
trans-1,2-Dichloroethene	ND		6.7	3.4	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
trans-1,3-Dichloropropene	ND		6.7	2.3	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,2,3-Trichlorobenzene	ND		6.7	2.8	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,2,4-Trichlorobenzene	ND		6.7	2.2	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,1,1-Trichloroethane	ND		6.7	3.4	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,1,2-Trichloroethane	ND		6.7	3.2	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1

Client Sample ID: G-3-4-41330

Lab Sample ID: 180-80249-1
Date Collected: 07/26/18 13:30
Matrix: Solid
Date Received: 07/27/18 09:00
Percent Solids: 85.3

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		6.7	2.0	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Trichlorofluoromethane	ND		6.7	2.0	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	2.6	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Vinyl chloride	ND		6.7	4.9	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1
Xylenes, Total	ND		13	5.8	ug/Kg	☼	07/29/18 11:00	07/29/18 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 110*	*07/29/18 11:00*	*07/29/18 17:07*	*1*
Dibromofluoromethane (Surr)	*94*		*74 - 114*	*07/29/18 11:00*	*07/29/18 17:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*69 - 110*	*07/29/18 11:00*	*07/29/18 17:07*	*1*
Toluene-d8 (Surr)	*97*		*83 - 124*	*07/29/18 11:00*	*07/29/18 17:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		0.1	0.1	%			07/30/18 12:00	1
Percent Solids	**85.3**		0.1	0.1	%			07/30/18 12:00	1

Client Sample ID: HYD1

Lab Sample ID: 180-80249-2
Date Collected: 07/26/18 13:35
Matrix: Solid
Date Received: 07/27/18 09:00
Percent Solids: 82.3

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	4.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Benzene	ND		6.3	2.5	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Bromoform	ND		6.3	3.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Bromomethane	ND		6.3	5.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
2-Butanone (MEK)	ND		6.3	3.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Carbon disulfide	ND		6.3	3.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Carbon tetrachloride	ND		6.3	4.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Chlorobenzene	ND		6.3	2.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Chlorobromomethane	ND		6.3	2.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Chlorodibromomethane	ND		6.3	3.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Chloroethane	ND		6.3	3.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Chloroform	ND		6.3	2.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Chloromethane	ND		6.3	4.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
cis-1,2-Dichloroethene	ND		6.3	2.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
cis-1,3-Dichloropropene	ND		6.3	2.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Cyclohexane	ND		6.3	1.5	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,2-Dibromo-3-Chloropropane	ND		6.3	3.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,2-Dibromoethane	ND		6.3	3.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,2-Dichlorobenzene	ND		6.3	5.1	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,3-Dichlorobenzene	ND		6.3	2.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,4-Dichlorobenzene	ND		6.3	1.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Dichlorobromomethane	ND		6.3	3.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Dichlorodifluoromethane	ND		6.3	3.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,1-Dichloroethane	ND		6.3	2.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,2-Dichloroethane	ND		6.3	1.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,1-Dichloroethene	ND		6.3	3.6	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,2-Dichloroethene, Total	ND		13	5.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1

Client Sample ID: HYD1

Date Collected: 07/26/18 13:35
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-2

Matrix: Solid
Percent Solids: 82.3

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		6.3	3.1	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,4-Dioxane	ND		1300	46	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Ethylbenzene	ND		6.3	2.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
2-Hexanone	ND		6.3	5.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Isopropylbenzene	ND		6.3	2.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Methyl acetate	ND		32	7.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Methylcyclohexane	ND		6.3	2.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Methylene Chloride	ND		6.3	3.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
4-Methyl-2-pentanone (MIBK)	ND		6.3	2.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Methyl tert-butyl ether	ND		6.3	4.6	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
m-Xylene & p-Xylene	ND		6.3	2.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
o-Xylene	ND		6.3	3.1	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Styrene	ND		6.3	1.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,1,2,2-Tetrachloroethane	ND		6.3	3.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Tetrachloroethene	ND		6.3	2.5	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Toluene	ND		6.3	2.1	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
trans-1,2-Dichloroethene	ND		6.3	3.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
trans-1,3-Dichloropropene	ND		6.3	2.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,2,3-Trichlorobenzene	ND		6.3	2.6	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,2,4-Trichlorobenzene	ND		6.3	2.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,1,1-Trichloroethane	ND		6.3	3.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,1,2-Trichloroethane	ND		6.3	3.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Trichloroethene	ND		6.3	1.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Trichlorofluoromethane	ND		6.3	1.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3	2.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Vinyl chloride	ND		6.3	4.6	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1
Xylenes, Total	ND		13	5.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 110*	*07/29/18 11:00*	*07/30/18 10:23*	*1*
Dibromofluoromethane (Surr)	*91*		*74 - 114*	*07/29/18 11:00*	*07/30/18 10:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*69 - 110*	*07/29/18 11:00*	*07/30/18 10:23*	*1*
Toluene-d8 (Surr)	*94*		*83 - 124*	*07/29/18 11:00*	*07/30/18 10:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.7**		0.1	0.1	%			07/30/18 12:00	1
Percent Solids	**82.3**		0.1	0.1	%			07/30/18 12:00	1

Client Sample ID: DUP-07262018-1

Date Collected: 07/26/18 00:00
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-3

Matrix: Solid
Percent Solids: 86.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		23	3.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Benzene	ND		5.8	2.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Bromoform	ND		5.8	3.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Bromomethane	ND		5.8	5.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
2-Butanone (MEK)	ND		5.8	3.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80249-1

Client Sample ID: DUP-07262018-1
Date Collected: 07/26/18 00:00
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-3
Matrix: Solid
Percent Solids: 86.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.8	3.5	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Carbon tetrachloride	ND		5.8	3.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Chlorobenzene	ND		5.8	1.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Chlorobromomethane	ND		5.8	2.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Chlorodibromomethane	ND		5.8	2.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Chloroethane	ND		5.8	3.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Chloroform	ND		5.8	2.5	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Chloromethane	ND		5.8	4.5	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
cis-1,2-Dichloroethene	ND		5.8	1.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
cis-1,3-Dichloropropene	ND		5.8	1.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Cyclohexane	ND		5.8	1.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,2-Dibromo-3-Chloropropane	ND		5.8	3.6	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,2-Dibromoethane	ND		5.8	3.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,2-Dichlorobenzene	ND		5.8	4.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,3-Dichlorobenzene	ND		5.8	1.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,4-Dichlorobenzene	ND		5.8	1.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Dichlorobromomethane	ND		5.8	2.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Dichlorodifluoromethane	ND		5.8	3.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,1-Dichloroethane	ND		5.8	2.1	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,2-Dichloroethane	ND		5.8	1.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,1-Dichloroethene	ND		5.8	3.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,2-Dichloroethene, Total	ND		12	4.6	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,2-Dichloropropane	ND		5.8	2.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,4-Dioxane	ND		1200	43	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Ethylbenzene	ND		5.8	2.5	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
2-Hexanone	ND		5.8	4.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Isopropylbenzene	ND		5.8	2.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Methyl acetate	ND		29	6.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Methylcyclohexane	ND		5.8	2.5	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Methylene Chloride	ND		5.8	2.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.8	2.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Methyl tert-butyl ether	ND		5.8	4.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
m-Xylene & p-Xylene	ND		5.8	2.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
o-Xylene	ND		5.8	2.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Styrene	ND		5.8	1.6	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,1,2,2-Tetrachloroethane	ND		5.8	3.5	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Tetrachloroethene	ND		5.8	2.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Toluene	ND		5.8	2.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
trans-1,2-Dichloroethene	ND		5.8	3.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
trans-1,3-Dichloropropene	ND		5.8	2.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,2,3-Trichlorobenzene	ND		5.8	2.4	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,2,4-Trichlorobenzene	ND		5.8	1.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,1,1-Trichloroethane	ND		5.8	2.9	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,1,2-Trichloroethane	ND		5.8	2.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Trichloroethene	ND		5.8	1.8	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Trichlorofluoromethane	ND		5.8	1.7	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.8	2.2	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Vinyl chloride	ND		5.8	4.3	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1
Xylenes, Total	ND		12	5.0	ug/Kg	☼	07/29/18 11:00	07/30/18 10:47	1

Client Sample ID: DUP-07262018-1

Lab Sample ID: 180-80249-3

Date Collected: 07/26/18 00:00
Matrix: Solid
Date Received: 07/27/18 09:00
Percent Solids: 86.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 110*	*07/29/18 11:00*	*07/30/18 10:47*	*1*
Dibromofluoromethane (Surr)	*100*		*74 - 114*	*07/29/18 11:00*	*07/30/18 10:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*69 - 110*	*07/29/18 11:00*	*07/30/18 10:47*	*1*
Toluene-d8 (Surr)	*93*		*83 - 124*	*07/29/18 11:00*	*07/30/18 10:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.1	%			07/30/18 12:00	1
Percent Solids	**86.7**		0.1	0.1	%			07/30/18 12:00	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-80249-4

Date Collected: 07/26/18 00:00
Matrix: Water
Date Received: 07/27/18 09:00

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	3.2	ug/L			08/02/18 12:49	1
Benzene	ND		5.0	2.0	ug/L			08/02/18 12:49	1
Bromoform	ND		5.0	2.6	ug/L			08/02/18 12:49	1
Bromomethane	ND		5.0	4.5	ug/L			08/02/18 12:49	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			08/02/18 12:49	1
Carbon disulfide	ND		5.0	3.0	ug/L			08/02/18 12:49	1
Carbon tetrachloride	ND		5.0	3.3	ug/L			08/02/18 12:49	1
Chlorobenzene	ND		5.0	1.6	ug/L			08/02/18 12:49	1
Chlorobromomethane	ND		5.0	1.9	ug/L			08/02/18 12:49	1
Chlorodibromomethane	ND		5.0	2.4	ug/L			08/02/18 12:49	1
Chloroethane	ND		5.0	2.6	ug/L			08/02/18 12:49	1
Chloroform	ND		5.0	2.1	ug/L			08/02/18 12:49	1
Chloromethane	ND		5.0	3.9	ug/L			08/02/18 12:49	1
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/L			08/02/18 12:49	1
cis-1,3-Dichloropropene	ND		5.0	1.6	ug/L			08/02/18 12:49	1
Cyclohexane	ND		5.0	1.2	ug/L			08/02/18 12:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0	3.1	ug/L			08/02/18 12:49	1
1,2-Dibromoethane	ND		5.0	2.7	ug/L			08/02/18 12:49	1
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			08/02/18 12:49	1
1,3-Dichlorobenzene	ND		5.0	1.6	ug/L			08/02/18 12:49	1
1,4-Dichlorobenzene	ND		5.0	1.0	ug/L			08/02/18 12:49	1
Dichlorobromomethane	ND		5.0	2.4	ug/L			08/02/18 12:49	1
Dichlorodifluoromethane	ND		5.0	2.9	ug/L			08/02/18 12:49	1
1,1-Dichloroethane	ND		5.0	1.8	ug/L			08/02/18 12:49	1
1,2-Dichloroethane	ND		5.0	1.5	ug/L			08/02/18 12:49	1
1,1-Dichloroethene	ND		5.0	2.9	ug/L			08/02/18 12:49	1
1,2-Dichloroethene, Total	ND		10	4.0	ug/L			08/02/18 12:49	1
1,2-Dichloropropane	ND		5.0	2.5	ug/L			08/02/18 12:49	1
1,4-Dioxane	ND		1000	37	ug/L			08/02/18 12:49	1
Ethylbenzene	ND		5.0	2.2	ug/L			08/02/18 12:49	1
2-Hexanone	ND		5.0	4.2	ug/L			08/02/18 12:49	1
Isopropylbenzene	ND		5.0	2.3	ug/L			08/02/18 12:49	1
Methyl acetate	ND		25	5.9	ug/L			08/02/18 12:49	1
Methylcyclohexane	ND		5.0	2.1	ug/L			08/02/18 12:49	1

Client Sample ID: TRIP BLANK
Date Collected: 07/26/18 00:00
Date Received: 07/27/18 09:00

Lab Sample ID: 180-80249-4
Matrix: Water

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**3.7**	**J**	5.0	2.4	ug/L			08/02/18 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.9	ug/L			08/02/18 12:49	1
Methyl tert-butyl ether	ND		5.0	3.7	ug/L			08/02/18 12:49	1
m-Xylene & p-Xylene	ND		5.0	1.9	ug/L			08/02/18 12:49	1
o-Xylene	ND		5.0	2.4	ug/L			08/02/18 12:49	1
Styrene	ND		5.0	1.3	ug/L			08/02/18 12:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/L			08/02/18 12:49	1
Tetrachloroethene	ND		5.0	2.0	ug/L			08/02/18 12:49	1
Toluene	ND		5.0	1.7	ug/L			08/02/18 12:49	1
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/L			08/02/18 12:49	1
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			08/02/18 12:49	1
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/L			08/02/18 12:49	1
1,2,4-Trichlorobenzene	ND		5.0	1.6	ug/L			08/02/18 12:49	1
1,1,1-Trichloroethane	ND		5.0	2.5	ug/L			08/02/18 12:49	1
1,1,2-Trichloroethane	ND		5.0	2.4	ug/L			08/02/18 12:49	1
Trichloroethene	ND		5.0	1.5	ug/L			08/02/18 12:49	1
Trichlorofluoromethane	ND		5.0	1.5	ug/L			08/02/18 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.9	ug/L			08/02/18 12:49	1
Vinyl chloride	ND		5.0	3.7	ug/L			08/02/18 12:49	1
Xylenes, Total	ND		10	4.3	ug/L			08/02/18 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*61 - 123*		*08/02/18 12:49*	*1*
Dibromofluoromethane (Surr)	*115*		*68 - 128*		*08/02/18 12:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*73 - 143*		*08/02/18 12:49*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*		*08/02/18 12:49*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-252049/5
Matrix: Solid
Analysis Batch: 252049

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	3.2	ug/Kg			07/29/18 13:13	1
Benzene	ND		5.0	2.0	ug/Kg			07/29/18 13:13	1
Bromoform	ND		5.0	2.6	ug/Kg			07/29/18 13:13	1
Bromomethane	ND		5.0	4.5	ug/Kg			07/29/18 13:13	1
2-Butanone (MEK)	ND		5.0	2.9	ug/Kg			07/29/18 13:13	1
Carbon disulfide	ND		5.0	3.0	ug/Kg			07/29/18 13:13	1
Carbon tetrachloride	ND		5.0	3.3	ug/Kg			07/29/18 13:13	1
Chlorobenzene	ND		5.0	1.6	ug/Kg			07/29/18 13:13	1
Chlorobromomethane	ND		5.0	1.9	ug/Kg			07/29/18 13:13	1
Chlorodibromomethane	ND		5.0	2.4	ug/Kg			07/29/18 13:13	1
Chloroethane	ND		5.0	2.6	ug/Kg			07/29/18 13:13	1
Chloroform	ND		5.0	2.1	ug/Kg			07/29/18 13:13	1
Chloromethane	ND		5.0	3.9	ug/Kg			07/29/18 13:13	1
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/Kg			07/29/18 13:13	1
cis-1,3-Dichloropropene	ND		5.0	1.6	ug/Kg			07/29/18 13:13	1
Cyclohexane	ND		5.0	1.2	ug/Kg			07/29/18 13:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	3.1	ug/Kg			07/29/18 13:13	1
1,2-Dibromoethane	ND		5.0	2.7	ug/Kg			07/29/18 13:13	1
1,2-Dichlorobenzene	ND		5.0	4.0	ug/Kg			07/29/18 13:13	1
1,3-Dichlorobenzene	ND		5.0	1.6	ug/Kg			07/29/18 13:13	1
1,4-Dichlorobenzene	ND		5.0	1.0	ug/Kg			07/29/18 13:13	1
Dichlorobromomethane	ND		5.0	2.4	ug/Kg			07/29/18 13:13	1
Dichlorodifluoromethane	ND		5.0	2.9	ug/Kg			07/29/18 13:13	1
1,1-Dichloroethane	ND		5.0	1.8	ug/Kg			07/29/18 13:13	1
1,2-Dichloroethane	ND		5.0	1.5	ug/Kg			07/29/18 13:13	1
1,1-Dichloroethene	ND		5.0	2.9	ug/Kg			07/29/18 13:13	1
1,2-Dichloroethene, Total	ND		10	4.0	ug/Kg			07/29/18 13:13	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			07/29/18 13:13	1
1,4-Dioxane	ND		1000	37	ug/Kg			07/29/18 13:13	1
Ethylbenzene	ND		5.0	2.2	ug/Kg			07/29/18 13:13	1
2-Hexanone	ND		5.0	4.2	ug/Kg			07/29/18 13:13	1
Isopropylbenzene	ND		5.0	2.3	ug/Kg			07/29/18 13:13	1
Methyl acetate	ND		25	5.9	ug/Kg			07/29/18 13:13	1
Methylcyclohexane	ND		5.0	2.1	ug/Kg			07/29/18 13:13	1
Methylene Chloride	ND		5.0	2.4	ug/Kg			07/29/18 13:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.9	ug/Kg			07/29/18 13:13	1
Methyl tert-butyl ether	ND		5.0	3.7	ug/Kg			07/29/18 13:13	1
m-Xylene & p-Xylene	ND		5.0	1.9	ug/Kg			07/29/18 13:13	1
o-Xylene	ND		5.0	2.4	ug/Kg			07/29/18 13:13	1
Styrene	ND		5.0	1.3	ug/Kg			07/29/18 13:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/Kg			07/29/18 13:13	1
Tetrachloroethene	ND		5.0	2.0	ug/Kg			07/29/18 13:13	1
Toluene	ND		5.0	1.7	ug/Kg			07/29/18 13:13	1
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/Kg			07/29/18 13:13	1
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/Kg			07/29/18 13:13	1
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/Kg			07/29/18 13:13	1
1,2,4-Trichlorobenzene	ND		5.0	1.6	ug/Kg			07/29/18 13:13	1
1,1,1-Trichloroethane	ND		5.0	2.5	ug/Kg			07/29/18 13:13	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-252049/5
Matrix: Solid
Analysis Batch: 252049

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		5.0	2.4	ug/Kg			07/29/18 13:13	1
Trichloroethene	ND		5.0	1.5	ug/Kg			07/29/18 13:13	1
Trichlorofluoromethane	ND		5.0	1.5	ug/Kg			07/29/18 13:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.9	ug/Kg			07/29/18 13:13	1
Vinyl chloride	ND		5.0	3.7	ug/Kg			07/29/18 13:13	1
Xylenes, Total	ND		10	4.3	ug/Kg			07/29/18 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 110*		*07/29/18 13:13*	*1*
Dibromofluoromethane (Surr)	*88*		*74 - 114*		*07/29/18 13:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*69 - 110*		*07/29/18 13:13*	*1*
Toluene-d8 (Surr)	*92*		*83 - 124*		*07/29/18 13:13*	*1*

Lab Sample ID: LCS 180-252049/3
Matrix: Solid
Analysis Batch: 252049

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	41.6		ug/Kg		104	36 - 150
Benzene	40.0	39.7		ug/Kg		99	78 - 118
Bromoform	40.0	28.5		ug/Kg		71	56 - 150
Bromomethane	40.0	34.4		ug/Kg		86	34 - 150
2-Butanone (MEK)	40.0	36.1		ug/Kg		90	30 - 150
Carbon disulfide	40.0	40.5		ug/Kg		101	66 - 128
Carbon tetrachloride	40.0	41.2		ug/Kg		103	60 - 137
Chlorobenzene	40.0	39.7		ug/Kg		99	78 - 118
Chlorobromomethane	40.0	38.2		ug/Kg		95	72 - 121
Chlorodibromomethane	40.0	36.0		ug/Kg		90	58 - 140
Chloroethane	40.0	46.1		ug/Kg		115	37 - 150
Chloroform	40.0	40.0		ug/Kg		100	68 - 124
Chloromethane	40.0	39.5		ug/Kg		99	46 - 150
cis-1,2-Dichloroethene	40.0	39.5		ug/Kg		99	71 - 120
cis-1,3-Dichloropropene	40.0	36.3		ug/Kg		91	70 - 131
Cyclohexane	40.0	40.7		ug/Kg		102	70 - 133
1,2-Dibromo-3-Chloropropane	40.0	26.9		ug/Kg		67	54 - 129
1,2-Dibromoethane	40.0	35.3		ug/Kg		88	78 - 118
1,2-Dichlorobenzene	40.0	39.2		ug/Kg		98	78 - 118
1,3-Dichlorobenzene	40.0	40.4		ug/Kg		101	78 - 118
1,4-Dichlorobenzene	40.0	40.1		ug/Kg		100	78 - 118
Dichlorobromomethane	40.0	37.7		ug/Kg		94	66 - 136
Dichlorodifluoromethane	40.0	42.0		ug/Kg		105	16 - 150
1,1-Dichloroethane	40.0	40.4		ug/Kg		101	67 - 129
1,2-Dichloroethane	40.0	38.0		ug/Kg		95	67 - 123
1,1-Dichloroethene	40.0	41.9		ug/Kg		105	59 - 128
1,2-Dichloroethene, Total	80.0	81.0		ug/Kg		101	71 - 121
1,2-Dichloropropane	40.0	37.4		ug/Kg		94	80 - 121
1,4-Dioxane	800	666	J	ug/Kg		83	51 - 138
Ethylbenzene	40.0	40.0		ug/Kg		100	78 - 118

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-252049/3
Matrix: Solid
Analysis Batch: 252049

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	40.0	35.8		ug/Kg		90	36 - 150
Isopropylbenzene	40.0	40.3		ug/Kg		101	76 - 123
Methyl acetate	80.0	56.9		ug/Kg		71	64 - 140
Methylcyclohexane	40.0	41.4		ug/Kg		104	75 - 124
Methylene Chloride	40.0	37.4		ug/Kg		93	68 - 120
4-Methyl-2-pentanone (MIBK)	40.0	33.3		ug/Kg		83	62 - 145
Methyl tert-butyl ether	40.0	34.4		ug/Kg		86	73 - 121
m-Xylene & p-Xylene	40.0	39.3		ug/Kg		98	78 - 118
o-Xylene	40.0	40.0		ug/Kg		100	78 - 118
Styrene	40.0	39.8		ug/Kg		99	79 - 119
1,1,2,2-Tetrachloroethane	40.0	31.2		ug/Kg		78	71 - 125
Tetrachloroethene	40.0	42.5		ug/Kg		106	78 - 118
Toluene	40.0	39.7		ug/Kg		99	79 - 121
trans-1,2-Dichloroethene	40.0	41.5		ug/Kg		104	71 - 123
trans-1,3-Dichloropropene	40.0	36.6		ug/Kg		91	62 - 133
1,2,3-Trichlorobenzene	40.0	38.3		ug/Kg		96	69 - 131
1,2,4-Trichlorobenzene	40.0	40.2		ug/Kg		100	65 - 135
1,1,1-Trichloroethane	40.0	41.2		ug/Kg		103	69 - 135
1,1,2-Trichloroethane	40.0	34.4		ug/Kg		86	78 - 118
Trichloroethene	40.0	41.7		ug/Kg		104	76 - 120
Trichlorofluoromethane	40.0	42.8		ug/Kg		107	25 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	42.6		ug/Kg		106	61 - 137
Vinyl chloride	40.0	36.9		ug/Kg		92	53 - 148
Xylenes, Total	80.0	79.3		ug/Kg		99	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 110*
Dibromofluoromethane (Surr)	*95*		*74 - 114*
1,2-Dichloroethane-d4 (Surr)	*89*		*69 - 110*
Toluene-d8 (Surr)	*95*		*83 - 124*

Lab Sample ID: MB 180-252080/7
Matrix: Solid
Analysis Batch: 252080

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	3.2	ug/Kg			07/30/18 09:14	1
Benzene	ND		5.0	2.0	ug/Kg			07/30/18 09:14	1
Bromoform	ND		5.0	2.6	ug/Kg			07/30/18 09:14	1
Bromomethane	ND		5.0	4.5	ug/Kg			07/30/18 09:14	1
2-Butanone (MEK)	ND		5.0	2.9	ug/Kg			07/30/18 09:14	1
Carbon disulfide	ND		5.0	3.0	ug/Kg			07/30/18 09:14	1
Carbon tetrachloride	ND		5.0	3.3	ug/Kg			07/30/18 09:14	1
Chlorobenzene	ND		5.0	1.6	ug/Kg			07/30/18 09:14	1
Chlorobromomethane	ND		5.0	1.9	ug/Kg			07/30/18 09:14	1
Chlorodibromomethane	ND		5.0	2.4	ug/Kg			07/30/18 09:14	1
Chloroethane	ND		5.0	2.6	ug/Kg			07/30/18 09:14	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-252080/7
Matrix: Solid
Analysis Batch: 252080

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		5.0	2.1	ug/Kg			07/30/18 09:14	1
Chloromethane	ND		5.0	3.9	ug/Kg			07/30/18 09:14	1
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/Kg			07/30/18 09:14	1
cis-1,3-Dichloropropene	ND		5.0	1.6	ug/Kg			07/30/18 09:14	1
Cyclohexane	ND		5.0	1.2	ug/Kg			07/30/18 09:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	3.1	ug/Kg			07/30/18 09:14	1
1,2-Dibromoethane	ND		5.0	2.7	ug/Kg			07/30/18 09:14	1
1,2-Dichlorobenzene	ND		5.0	4.0	ug/Kg			07/30/18 09:14	1
1,3-Dichlorobenzene	ND		5.0	1.6	ug/Kg			07/30/18 09:14	1
1,4-Dichlorobenzene	ND		5.0	1.0	ug/Kg			07/30/18 09:14	1
Dichlorobromomethane	ND		5.0	2.4	ug/Kg			07/30/18 09:14	1
Dichlorodifluoromethane	ND		5.0	2.9	ug/Kg			07/30/18 09:14	1
1,1-Dichloroethane	ND		5.0	1.8	ug/Kg			07/30/18 09:14	1
1,2-Dichloroethane	ND		5.0	1.5	ug/Kg			07/30/18 09:14	1
1,1-Dichloroethene	ND		5.0	2.9	ug/Kg			07/30/18 09:14	1
1,2-Dichloroethene, Total	ND		10	4.0	ug/Kg			07/30/18 09:14	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			07/30/18 09:14	1
1,4-Dioxane	ND		1000	37	ug/Kg			07/30/18 09:14	1
Ethylbenzene	ND		5.0	2.2	ug/Kg			07/30/18 09:14	1
2-Hexanone	ND		5.0	4.2	ug/Kg			07/30/18 09:14	1
Isopropylbenzene	ND		5.0	2.3	ug/Kg			07/30/18 09:14	1
Methyl acetate	ND		25	5.9	ug/Kg			07/30/18 09:14	1
Methylcyclohexane	ND		5.0	2.1	ug/Kg			07/30/18 09:14	1
Methylene Chloride	ND		5.0	2.4	ug/Kg			07/30/18 09:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.9	ug/Kg			07/30/18 09:14	1
Methyl tert-butyl ether	ND		5.0	3.7	ug/Kg			07/30/18 09:14	1
m-Xylene & p-Xylene	ND		5.0	1.9	ug/Kg			07/30/18 09:14	1
o-Xylene	ND		5.0	2.4	ug/Kg			07/30/18 09:14	1
Styrene	ND		5.0	1.3	ug/Kg			07/30/18 09:14	1
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/Kg			07/30/18 09:14	1
Tetrachloroethene	ND		5.0	2.0	ug/Kg			07/30/18 09:14	1
Toluene	ND		5.0	1.7	ug/Kg			07/30/18 09:14	1
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/Kg			07/30/18 09:14	1
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/Kg			07/30/18 09:14	1
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/Kg			07/30/18 09:14	1
1,2,4-Trichlorobenzene	ND		5.0	1.6	ug/Kg			07/30/18 09:14	1
1,1,1-Trichloroethane	ND		5.0	2.5	ug/Kg			07/30/18 09:14	1
1,1,2-Trichloroethane	ND		5.0	2.4	ug/Kg			07/30/18 09:14	1
Trichloroethene	ND		5.0	1.5	ug/Kg			07/30/18 09:14	1
Trichlorofluoromethane	ND		5.0	1.5	ug/Kg			07/30/18 09:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.9	ug/Kg			07/30/18 09:14	1
Vinyl chloride	ND		5.0	3.7	ug/Kg			07/30/18 09:14	1
Xylenes, Total	ND		10	4.3	ug/Kg			07/30/18 09:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 110*		*07/30/18 09:14*	*1*
Dibromofluoromethane (Surr)	*97*		*74 - 114*		*07/30/18 09:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*69 - 110*		*07/30/18 09:14*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-252080/7
Matrix: Solid
Analysis Batch: 252080

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		83 - 124		07/30/18 09:14	1

Lab Sample ID: LCS 180-252080/4
Matrix: Solid
Analysis Batch: 252080

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	45.9		ug/Kg		115	36 - 150
Benzene	40.0	41.2		ug/Kg		103	78 - 118
Bromoform	40.0	28.7		ug/Kg		72	56 - 150
Bromomethane	40.0	36.7		ug/Kg		92	34 - 150
2-Butanone (MEK)	40.0	41.6		ug/Kg		104	30 - 150
Carbon disulfide	40.0	40.3		ug/Kg		101	66 - 128
Carbon tetrachloride	40.0	40.5		ug/Kg		101	60 - 137
Chlorobenzene	40.0	36.6		ug/Kg		92	78 - 118
Chlorobromomethane	40.0	39.8		ug/Kg		100	72 - 121
Chlorodibromomethane	40.0	33.9		ug/Kg		85	58 - 140
Chloroethane	40.0	48.8		ug/Kg		122	37 - 150
Chloroform	40.0	40.8		ug/Kg		102	68 - 124
Chloromethane	40.0	38.6		ug/Kg		96	46 - 150
cis-1,2-Dichloroethene	40.0	40.7		ug/Kg		102	71 - 120
cis-1,3-Dichloropropene	40.0	37.0		ug/Kg		92	70 - 131
Cyclohexane	40.0	41.2		ug/Kg		103	70 - 133
1,2-Dibromo-3-Chloropropane	40.0	24.2		ug/Kg		60	54 - 129
1,2-Dibromoethane	40.0	34.8		ug/Kg		87	78 - 118
1,2-Dichlorobenzene	40.0	33.3		ug/Kg		83	78 - 118
1,3-Dichlorobenzene	40.0	33.9		ug/Kg		85	78 - 118
1,4-Dichlorobenzene	40.0	33.2		ug/Kg		83	78 - 118
Dichlorobromomethane	40.0	39.3		ug/Kg		98	66 - 136
Dichlorodifluoromethane	40.0	42.2		ug/Kg		105	16 - 150
1,1-Dichloroethane	40.0	40.5		ug/Kg		101	67 - 129
1,2-Dichloroethane	40.0	40.7		ug/Kg		102	67 - 123
1,1-Dichloroethene	40.0	40.5		ug/Kg		101	59 - 128
1,2-Dichloroethene, Total	80.0	82.1		ug/Kg		103	71 - 121
1,2-Dichloropropane	40.0	39.7		ug/Kg		99	80 - 121
1,4-Dioxane	800	822	J	ug/Kg		103	51 - 138
Ethylbenzene	40.0	37.1		ug/Kg		93	78 - 118
2-Hexanone	40.0	36.1		ug/Kg		90	36 - 150
Isopropylbenzene	40.0	37.0		ug/Kg		93	76 - 123
Methyl acetate	80.0	67.3		ug/Kg		84	64 - 140
Methylcyclohexane	40.0	41.8		ug/Kg		104	75 - 124
Methylene Chloride	40.0	40.5		ug/Kg		101	68 - 120
4-Methyl-2-pentanone (MIBK)	40.0	33.4		ug/Kg		83	62 - 145
Methyl tert-butyl ether	40.0	38.0		ug/Kg		95	73 - 121
m-Xylene & p-Xylene	40.0	36.9		ug/Kg		92	78 - 118
o-Xylene	40.0	37.1		ug/Kg		93	78 - 118
Styrene	40.0	37.7		ug/Kg		94	79 - 119
1,1,2,2-Tetrachloroethane	40.0	32.6		ug/Kg		81	71 - 125

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-252080/4
Matrix: Solid
Analysis Batch: 252080

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	40.0	38.3		ug/Kg		96	78 - 118
Toluene	40.0	36.9		ug/Kg		92	79 - 121
trans-1,2-Dichloroethene	40.0	41.4		ug/Kg		104	71 - 123
trans-1,3-Dichloropropene	40.0	34.8		ug/Kg		87	62 - 133
1,2,3-Trichlorobenzene	40.0	33.1		ug/Kg		83	69 - 131
1,2,4-Trichlorobenzene	40.0	34.5		ug/Kg		86	65 - 135
1,1,1-Trichloroethane	40.0	42.7		ug/Kg		107	69 - 135
1,1,2-Trichloroethane	40.0	34.4		ug/Kg		86	78 - 118
Trichloroethene	40.0	42.8		ug/Kg		107	76 - 120
Trichlorofluoromethane	40.0	43.0		ug/Kg		108	25 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	43.0		ug/Kg		107	61 - 137
Vinyl chloride	40.0	38.3		ug/Kg		96	53 - 148
Xylenes, Total	80.0	74.0		ug/Kg		93	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 110*
Dibromofluoromethane (Surr)	*98*		*74 - 114*
1,2-Dichloroethane-d4 (Surr)	*98*		*69 - 110*
Toluene-d8 (Surr)	*90*		*83 - 124*

Lab Sample ID: LCSD 180-252080/5
Matrix: Solid
Analysis Batch: 252080

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	40.0	44.4		ug/Kg		111	36 - 150	3	35
Benzene	40.0	42.7		ug/Kg		107	78 - 118	4	15
Bromoform	40.0	28.5		ug/Kg		71	56 - 150	1	16
Bromomethane	40.0	41.4		ug/Kg		104	34 - 150	12	35
2-Butanone (MEK)	40.0	39.0		ug/Kg		97	30 - 150	7	35
Carbon disulfide	40.0	42.3		ug/Kg		106	66 - 128	5	27
Carbon tetrachloride	40.0	42.0		ug/Kg		105	60 - 137	4	21
Chlorobenzene	40.0	38.7		ug/Kg		97	78 - 118	5	15
Chlorobromomethane	40.0	42.7		ug/Kg		107	72 - 121	7	15
Chlorodibromomethane	40.0	35.7		ug/Kg		89	58 - 140	5	20
Chloroethane	40.0	48.5		ug/Kg		121	37 - 150	1	35
Chloroform	40.0	42.6		ug/Kg		107	68 - 124	4	15
Chloromethane	40.0	39.0		ug/Kg		97	46 - 150	1	35
cis-1,2-Dichloroethene	40.0	42.4		ug/Kg		106	71 - 120	4	15
cis-1,3-Dichloropropene	40.0	38.6		ug/Kg		97	70 - 131	4	21
Cyclohexane	40.0	42.2		ug/Kg		105	70 - 133	2	28
1,2-Dibromo-3-Chloropropane	40.0	25.8		ug/Kg		65	54 - 129	7	20
1,2-Dibromoethane	40.0	36.2		ug/Kg		91	78 - 118	4	15
1,2-Dichlorobenzene	40.0	34.7		ug/Kg		87	78 - 118	4	15
1,3-Dichlorobenzene	40.0	35.5		ug/Kg		89	78 - 118	5	15
1,4-Dichlorobenzene	40.0	34.9		ug/Kg		87	78 - 118	5	15
Dichlorobromomethane	40.0	40.7		ug/Kg		102	66 - 136	3	15

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-252080/5
Matrix: Solid
Analysis Batch: 252080

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	42.7		ug/Kg		107	16 - 150	1	35
1,1-Dichloroethane			40.0	41.9		ug/Kg		105	67 - 129	3	15
1,2-Dichloroethane			40.0	41.7		ug/Kg		104	67 - 123	2	15
1,1-Dichloroethene			40.0	43.5		ug/Kg		109	59 - 128	7	17
1,2-Dichloroethene, Total			80.0	85.5		ug/Kg		107	71 - 121	4	15
1,2-Dichloropropane			40.0	39.9		ug/Kg		100	80 - 121	0	15
1,4-Dioxane			800	771	J	ug/Kg		96	51 - 138	6	35
Ethylbenzene			40.0	38.7		ug/Kg		97	78 - 118	4	15
2-Hexanone			40.0	36.0		ug/Kg		90	36 - 150	0	35
Isopropylbenzene			40.0	38.9		ug/Kg		97	76 - 123	5	19
Methyl acetate			80.0	67.2		ug/Kg		84	64 - 140	0	24
Methylcyclohexane			40.0	42.6		ug/Kg		106	75 - 124	2	24
Methylene Chloride			40.0	42.6		ug/Kg		107	68 - 120	5	19
4-Methyl-2-pentanone (MIBK)			40.0	32.8		ug/Kg		82	62 - 145	2	27
Methyl tert-butyl ether			40.0	38.9		ug/Kg		97	73 - 121	2	24
m-Xylene & p-Xylene			40.0	38.5		ug/Kg		96	78 - 118	4	16
o-Xylene			40.0	39.2		ug/Kg		98	78 - 118	5	15
Styrene			40.0	40.1		ug/Kg		100	79 - 119	6	15
1,1,2,2-Tetrachloroethane			40.0	33.7		ug/Kg		84	71 - 125	3	25
Tetrachloroethene			40.0	39.4		ug/Kg		98	78 - 118	3	20
Toluene			40.0	38.2		ug/Kg		96	79 - 121	3	18
trans-1,2-Dichloroethene			40.0	43.1		ug/Kg		108	71 - 123	4	15
trans-1,3-Dichloropropene			40.0	36.0		ug/Kg		90	62 - 133	3	21
1,2,3-Trichlorobenzene			40.0	37.9		ug/Kg		95	69 - 131	14	20
1,2,4-Trichlorobenzene			40.0	38.8		ug/Kg		97	65 - 135	12	20
1,1,1-Trichloroethane			40.0	44.1		ug/Kg		110	69 - 135	3	22
1,1,2-Trichloroethane			40.0	36.0		ug/Kg		90	78 - 118	4	18
Trichloroethene			40.0	43.3		ug/Kg		108	76 - 120	1	15
Trichlorofluoromethane			40.0	44.1		ug/Kg		110	25 - 150	3	35
1,1,2-Trichloro-1,2,2-trifluoroethane			40.0	44.8		ug/Kg		112	61 - 137	4	35
Vinyl chloride			40.0	38.8		ug/Kg		97	53 - 148	1	35
Xylenes, Total			80.0	77.7		ug/Kg		97	78 - 118	5	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 110*
Dibromofluoromethane (Surr)	*100*		*74 - 114*
1,2-Dichloroethane-d4 (Surr)	*97*		*69 - 110*
Toluene-d8 (Surr)	*89*		*83 - 124*

Lab Sample ID: MB 180-252569/5
Matrix: Water
Analysis Batch: 252569

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	3.2	ug/L			08/02/18 08:37	1
Benzene	ND		5.0	2.0	ug/L			08/02/18 08:37	1
Bromoform	ND		5.0	2.6	ug/L			08/02/18 08:37	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-252569/5
Matrix: Water
Analysis Batch: 252569

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		5.0	4.5	ug/L			08/02/18 08:37	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			08/02/18 08:37	1
Carbon disulfide	ND		5.0	3.0	ug/L			08/02/18 08:37	1
Carbon tetrachloride	ND		5.0	3.3	ug/L			08/02/18 08:37	1
Chlorobenzene	ND		5.0	1.6	ug/L			08/02/18 08:37	1
Chlorobromomethane	ND		5.0	1.9	ug/L			08/02/18 08:37	1
Chlorodibromomethane	ND		5.0	2.4	ug/L			08/02/18 08:37	1
Chloroethane	ND		5.0	2.6	ug/L			08/02/18 08:37	1
Chloroform	ND		5.0	2.1	ug/L			08/02/18 08:37	1
Chloromethane	ND		5.0	3.9	ug/L			08/02/18 08:37	1
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/L			08/02/18 08:37	1
cis-1,3-Dichloropropene	ND		5.0	1.6	ug/L			08/02/18 08:37	1
Cyclohexane	ND		5.0	1.2	ug/L			08/02/18 08:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	3.1	ug/L			08/02/18 08:37	1
1,2-Dibromoethane	ND		5.0	2.7	ug/L			08/02/18 08:37	1
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			08/02/18 08:37	1
1,3-Dichlorobenzene	ND		5.0	1.6	ug/L			08/02/18 08:37	1
1,4-Dichlorobenzene	ND		5.0	1.0	ug/L			08/02/18 08:37	1
Dichlorobromomethane	ND		5.0	2.4	ug/L			08/02/18 08:37	1
Dichlorodifluoromethane	ND		5.0	2.9	ug/L			08/02/18 08:37	1
1,1-Dichloroethane	ND		5.0	1.8	ug/L			08/02/18 08:37	1
1,2-Dichloroethane	ND		5.0	1.5	ug/L			08/02/18 08:37	1
1,1-Dichloroethene	ND		5.0	2.9	ug/L			08/02/18 08:37	1
1,2-Dichloroethene, Total	ND		10	4.0	ug/L			08/02/18 08:37	1
1,2-Dichloropropane	ND		5.0	2.5	ug/L			08/02/18 08:37	1
1,4-Dioxane	ND		1000	37	ug/L			08/02/18 08:37	1
Ethylbenzene	ND		5.0	2.2	ug/L			08/02/18 08:37	1
2-Hexanone	ND		5.0	4.2	ug/L			08/02/18 08:37	1
Isopropylbenzene	ND		5.0	2.3	ug/L			08/02/18 08:37	1
Methyl acetate	ND		25	5.9	ug/L			08/02/18 08:37	1
Methylcyclohexane	ND		5.0	2.1	ug/L			08/02/18 08:37	1
Methylene Chloride	ND		5.0	2.4	ug/L			08/02/18 08:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.9	ug/L			08/02/18 08:37	1
Methyl tert-butyl ether	ND		5.0	3.7	ug/L			08/02/18 08:37	1
m-Xylene & p-Xylene	ND		5.0	1.9	ug/L			08/02/18 08:37	1
o-Xylene	ND		5.0	2.4	ug/L			08/02/18 08:37	1
Styrene	ND		5.0	1.3	ug/L			08/02/18 08:37	1
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/L			08/02/18 08:37	1
Tetrachloroethene	ND		5.0	2.0	ug/L			08/02/18 08:37	1
Toluene	ND		5.0	1.7	ug/L			08/02/18 08:37	1
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/L			08/02/18 08:37	1
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			08/02/18 08:37	1
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/L			08/02/18 08:37	1
1,2,4-Trichlorobenzene	ND		5.0	1.6	ug/L			08/02/18 08:37	1
1,1,1-Trichloroethane	ND		5.0	2.5	ug/L			08/02/18 08:37	1
1,1,2-Trichloroethane	ND		5.0	2.4	ug/L			08/02/18 08:37	1
Trichloroethene	ND		5.0	1.5	ug/L			08/02/18 08:37	1
Trichlorofluoromethane	ND		5.0	1.5	ug/L			08/02/18 08:37	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-252569/5
Matrix: Water
Analysis Batch: 252569

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.9	ug/L			08/02/18 08:37	1
Vinyl chloride	ND		5.0	3.7	ug/L			08/02/18 08:37	1
Xylenes, Total	ND		10	4.3	ug/L			08/02/18 08:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*61 - 123*		*08/02/18 08:37*	*1*
Dibromofluoromethane (Surr)	*110*		*68 - 128*		*08/02/18 08:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 143*		*08/02/18 08:37*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*		*08/02/18 08:37*	*1*

Lab Sample ID: LCS 180-252569/10
Matrix: Water
Analysis Batch: 252569

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	43.8		ug/L		110	36 - 150
Benzene	40.0	42.7		ug/L		107	78 - 118
Bromoform	40.0	39.5		ug/L		99	56 - 150
Bromomethane	40.0	40.0		ug/L		100	34 - 150
2-Butanone (MEK)	40.0	31.9		ug/L		80	30 - 150
Carbon disulfide	40.0	47.1		ug/L		118	66 - 128
Carbon tetrachloride	40.0	44.8		ug/L		112	60 - 137
Chlorobenzene	40.0	41.3		ug/L		103	78 - 118
Chlorobromomethane	40.0	41.2		ug/L		103	72 - 121
Chlorodibromomethane	40.0	39.7		ug/L		99	58 - 140
Chloroethane	40.0	39.5		ug/L		99	37 - 150
Chloroform	40.0	42.0		ug/L		105	68 - 124
Chloromethane	40.0	37.3		ug/L		93	46 - 150
cis-1,2-Dichloroethene	40.0	42.8		ug/L		107	71 - 120
cis-1,3-Dichloropropene	40.0	39.3		ug/L		98	70 - 131
Cyclohexane	40.0	42.2		ug/L		105	70 - 133
1,2-Dibromo-3-Chloropropane	40.0	34.7		ug/L		87	54 - 129
1,2-Dibromoethane	40.0	38.9		ug/L		97	78 - 118
1,2-Dichlorobenzene	40.0	39.4		ug/L		99	78 - 118
1,3-Dichlorobenzene	40.0	40.6		ug/L		101	78 - 118
1,4-Dichlorobenzene	40.0	39.3		ug/L		98	78 - 118
Dichlorobromomethane	40.0	41.8		ug/L		105	66 - 136
Dichlorodifluoromethane	40.0	41.5		ug/L		104	16 - 150
1,1-Dichloroethane	40.0	41.0		ug/L		102	67 - 129
1,2-Dichloroethane	40.0	41.1		ug/L		103	67 - 123
1,1-Dichloroethene	40.0	47.1		ug/L		118	59 - 128
1,2-Dichloroethene, Total	80.0	85.3		ug/L		107	71 - 121
1,2-Dichloropropane	40.0	40.3		ug/L		101	80 - 121
1,4-Dioxane	800	572	J	ug/L		72	51 - 138
Ethylbenzene	40.0	43.1		ug/L		108	78 - 118
2-Hexanone	40.0	38.4		ug/L		96	36 - 150
Isopropylbenzene	40.0	44.1		ug/L		110	76 - 123
Methyl acetate	80.0	71.4		ug/L		89	64 - 140

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-252569/10
Matrix: Water
Analysis Batch: 252569

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	40.0	45.1		ug/L		113	75 - 124
Methylene Chloride	40.0	45.5		ug/L		114	68 - 120
4-Methyl-2-pentanone (MIBK)	40.0	34.0		ug/L		85	62 - 145
Methyl tert-butyl ether	40.0	40.6		ug/L		102	73 - 121
m-Xylene & p-Xylene	40.0	42.6		ug/L		106	78 - 118
o-Xylene	40.0	42.7		ug/L		107	78 - 118
Styrene	40.0	43.1		ug/L		108	79 - 119
1,1,2,2-Tetrachloroethane	40.0	38.1		ug/L		95	71 - 125
Tetrachloroethene	40.0	43.1		ug/L		108	78 - 118
Toluene	40.0	41.7		ug/L		104	79 - 121
trans-1,2-Dichloroethene	40.0	42.5		ug/L		106	71 - 123
trans-1,3-Dichloropropene	40.0	40.1		ug/L		100	62 - 133
1,2,3-Trichlorobenzene	40.0	39.2		ug/L		98	69 - 131
1,2,4-Trichlorobenzene	40.0	41.2		ug/L		103	65 - 135
1,1,1-Trichloroethane	40.0	43.9		ug/L		110	69 - 135
1,1,2-Trichloroethane	40.0	38.0		ug/L		95	78 - 118
Trichloroethene	40.0	42.9		ug/L		107	76 - 120
Trichlorofluoromethane	40.0	55.4		ug/L		139	25 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	48.1		ug/L		120	61 - 137
Vinyl chloride	40.0	38.2		ug/L		95	53 - 148
Xylenes, Total	80.0	85.3		ug/L		107	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*61 - 123*
Dibromofluoromethane (Surr)	*105*		*68 - 128*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 143*
Toluene-d8 (Surr)	*104*		*75 - 124*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80249-1

GC/MS VOA

Analysis Batch: 252049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80249-1	G-3-4-41330	Total/NA	Solid	EPA 8260C	252050
MB 180-252049/5	Method Blank	Total/NA	Solid	EPA 8260C	
LCS 180-252049/3	Lab Control Sample	Total/NA	Solid	EPA 8260C	

Prep Batch: 252050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80249-1	G-3-4-41330	Total/NA	Solid	5035	
180-80249-2	HYD1	Total/NA	Solid	5035	
180-80249-3	DUP-07262018-1	Total/NA	Solid	5035	

Analysis Batch: 252080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80249-2	HYD1	Total/NA	Solid	EPA 8260C	252050
180-80249-3	DUP-07262018-1	Total/NA	Solid	EPA 8260C	252050
MB 180-252080/7	Method Blank	Total/NA	Solid	EPA 8260C	
LCS 180-252080/4	Lab Control Sample	Total/NA	Solid	EPA 8260C	
LCSD 180-252080/5	Lab Control Sample Dup	Total/NA	Solid	EPA 8260C	

Analysis Batch: 252569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80249-4	TRIP BLANK	Total/NA	Water	EPA 8260C	
MB 180-252569/5	Method Blank	Total/NA	Water	EPA 8260C	
LCS 180-252569/10	Lab Control Sample	Total/NA	Water	EPA 8260C	

General Chemistry

Analysis Batch: 252136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80249-1	G-3-4-41330	Total/NA	Solid	2540G	
180-80249-2	HYD1	Total/NA	Solid	2540G	
180-80249-3	DUP-07262018-1	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-80249 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Dunlap, David A	COC No:
Client Contact: Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com	Page: Page 1 of
Company: Geosyntec Consultants, Inc.			Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:		
City: Columbia, MD	TAT Requested (days):		
State, Zip: MD, 21044			
Phone: (202) 550-7724	PO #: MN0832D		
Email: akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	A	X	
G-S-4-41330	7/26/2018	1330	G	Solid	N	N	X				4	3-day TAT
HYD1	7/26/2018	1335	G	Solid	N	N	X				4	3-day TAT
DUP-07262018-1	7/26/2018	—	G	Solid	N	N	X				4	3-day TAT
TRIP BLANK	7/26/2018	—	—	Solid	N	N				X	2	
				Solid	N							
				Solid	N							
				Solid	N							
				Solid	N							
				Solid	N							
				Solid	N							
				Solid	N							
				Solid	N							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

RELEASE TO FEDEX AT 1900, 7/26/2018

Rec: TA Pitt 7/27/18 900

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80249-1

Login Number: 80249
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80273-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/2/2018 12:04:56 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Job ID: 180-80273-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80273-1

Receipt
The samples were received on 7/31/2018 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted due to the abundance of target analytes: SSHS-B11245-SUB-4-6 (180-80273-4), SSHS-B1245-SUB-6-8 (180-80273-5), SSHS-B1082-SUB-6-8 (180-80273-6), SSHS-B1082-SUB-8-10 (180-80273-7), SSHS-B1239-SUB-4-6 (180-80273-8), SSHS-B1239-SUB-6-8 (180-80273-9), SSHS-B1253-SUB-6-8 (180-80273-11), SSHS-B1252-SUB-6-8 (180-80273-14), DUP-2 (180-80273-18), and SSHS-B1218-SUB-4-6 (180-80273-19). Several samples had the surrogates diluted out. Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-252374 (CCV 180-252374/4) was above criteria for 2 peaks for aroclor 1248 on column RTX-CLP1. The associated sample results for aroclor 1248 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-252374 (CCV 180-252374/5) was above criteria for 1 peak for aroclor 1260 on column RTX-CLP1. The associated sample results for aroclor 1260 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The matrix spike/matrix spike duplicate (MS/MSD) recoveries of sample SSHS-B1245-SUB-4-6 (180-80273-13) were above the control limits for aroclor 1016. The RPD between the spikes and the recoveries of the laboratory control sample (LCS) were within the control limits

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery is outside acceptance limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80273-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80273-1	SSHS-B1065-SUB-0-2	Solid	07/27/18 14:45	07/31/18 08:50
180-80273-2	SSHS-B1188-SUB-0-2	Solid	07/27/18 15:05	07/31/18 08:50
180-80273-3	SSHS-B1066-SUB-0-2	Solid	07/27/18 15:00	07/31/18 08:50
180-80273-4	SSHS-B1245-SUB-4-6	Solid	07/28/18 09:30	07/31/18 08:50
180-80273-5	SSHS-B1245-SUB-6-8	Solid	07/28/18 09:35	07/31/18 08:50
180-80273-6	SSHS-B1082-SUB-6-8	Solid	07/28/18 09:45	07/31/18 08:50
180-80273-7	SSHS-B1082-SUB-8-10	Solid	07/28/18 09:50	07/31/18 08:50
180-80273-8	SSHS-B1239-SUB-4-6	Solid	07/28/18 10:00	07/31/18 08:50
180-80273-9	SSHS-B1239-SUB-6-8	Solid	07/28/18 10:05	07/31/18 08:50
180-80273-10	SSHS-B1193-SUB-2-4	Solid	07/28/18 10:30	07/31/18 08:50
180-80273-11	SSHS-B1253-SUB-6-8	Solid	07/28/18 10:40	07/31/18 08:50
180-80273-12	SSHS-B1395-SUB-0-2	Solid	07/28/18 10:50	07/31/18 08:50
180-80273-13	SSHS-B1204-SUB-10-12	Solid	07/28/18 11:00	07/31/18 08:50
180-80273-14	SSHS-B1252-SUB-6-8	Solid	07/28/18 11:10	07/31/18 08:50
180-80273-15	SSHS-B1238-SUB-4-6	Solid	07/28/18 11:20	07/31/18 08:50
180-80273-16	SSHS-B1238-SUB-8-10	Solid	07/28/18 11:25	07/31/18 08:50
180-80273-17	DUP-1	Solid	07/28/18 00:00	07/31/18 08:50
180-80273-18	DUP-2	Solid	07/28/18 00:00	07/31/18 08:50
180-80273-19	SSHS-B1218-SUB-4-6	Solid	07/28/18 10:10	07/31/18 08:50

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Client Sample ID: SSHS-B1065-SUB-0-2
Date Collected: 07/27/18 14:45
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1065-SUB-0-2
Date Collected: 07/27/18 14:45
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-1
Matrix: Solid
Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			252374	08/01/18 11:51	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1188-SUB-0-2
Date Collected: 07/27/18 15:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1188-SUB-0-2
Date Collected: 07/27/18 15:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-2
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			252374	08/01/18 12:10	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1066-SUB-0-2
Date Collected: 07/27/18 15:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1066-SUB-0-2

Lab Sample ID: 180-80273-3
Date Collected: 07/27/18 15:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			252374	08/01/18 12:28	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1245-SUB-4-6

Lab Sample ID: 180-80273-4
Date Collected: 07/28/18 09:30
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1245-SUB-4-6

Lab Sample ID: 180-80273-4
Date Collected: 07/28/18 09:30
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			252374	08/01/18 21:12	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1245-SUB-6-8

Lab Sample ID: 180-80273-5
Date Collected: 07/28/18 09:35
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1245-SUB-6-8

Lab Sample ID: 180-80273-5
Date Collected: 07/28/18 09:35
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			252374	08/01/18 21:31	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Client Sample ID: SSHS-B1082-SUB-6-8
Lab Sample ID: 180-80273-6
Date Collected: 07/28/18 09:45
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1082-SUB-6-8
Lab Sample ID: 180-80273-6
Date Collected: 07/28/18 09:45
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		50			252536	08/02/18 07:32	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1082-SUB-8-10
Lab Sample ID: 180-80273-7
Date Collected: 07/28/18 09:50
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1082-SUB-8-10
Lab Sample ID: 180-80273-7
Date Collected: 07/28/18 09:50
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			252536	08/02/18 07:51	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1239-SUB-4-6
Lab Sample ID: 180-80273-8
Date Collected: 07/28/18 10:00
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Client Sample ID: SSHS-B1239-SUB-4-6

Lab Sample ID: 180-80273-8
Date Collected: 07/28/18 10:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		50			252536	08/02/18 08:10	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1239-SUB-6-8

Lab Sample ID: 180-80273-9
Date Collected: 07/28/18 10:05
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1239-SUB-6-8

Lab Sample ID: 180-80273-9
Date Collected: 07/28/18 10:05
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			252536	08/02/18 08:28	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1193-SUB-2-4

Lab Sample ID: 180-80273-10
Date Collected: 07/28/18 10:30
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1193-SUB-2-4

Lab Sample ID: 180-80273-10
Date Collected: 07/28/18 10:30
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			252374	08/01/18 14:58	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Client Sample ID: SSHS-B1253-SUB-6-8
Date Collected: 07/28/18 10:40
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1253-SUB-6-8
Date Collected: 07/28/18 10:40
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-11
Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			252536	08/02/18 08:47	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1395-SUB-0-2
Date Collected: 07/28/18 10:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1395-SUB-0-2
Date Collected: 07/28/18 10:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-12
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			252374	08/01/18 15:36	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1204-SUB-10-12
Date Collected: 07/28/18 11:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1204-SUB-10-12

Lab Sample ID: 180-80273-13
Date Collected: 07/28/18 11:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			252374	08/01/18 15:54	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1252-SUB-6-8

Lab Sample ID: 180-80273-14
Date Collected: 07/28/18 11:10
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1252-SUB-6-8

Lab Sample ID: 180-80273-14
Date Collected: 07/28/18 11:10
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		20			252536	08/02/18 09:06	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1238-SUB-4-6

Lab Sample ID: 180-80273-15
Date Collected: 07/28/18 11:20
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1238-SUB-4-6

Lab Sample ID: 180-80273-15
Date Collected: 07/28/18 11:20
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			252374	08/01/18 17:09	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Client Sample ID: SSHS-B1238-SUB-8-10
Date Collected: 07/28/18 11:25
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1238-SUB-8-10
Date Collected: 07/28/18 11:25
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-16
Matrix: Solid
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			252374	08/01/18 17:28	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: DUP-1
Date Collected: 07/28/18 00:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-1
Date Collected: 07/28/18 00:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-17
Matrix: Solid
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			252374	08/01/18 17:46	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: DUP-2
Date Collected: 07/28/18 00:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Client Sample ID: DUP-2

Lab Sample ID: 180-80273-18
Date Collected: 07/28/18 00:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			252536	08/02/18 09:24	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1218-SUB-4-6

Lab Sample ID: 180-80273-19
Date Collected: 07/28/18 10:10
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252274	07/31/18 10:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1218-SUB-4-6

Lab Sample ID: 180-80273-19
Date Collected: 07/28/18 10:10
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	252291	07/31/18 11:24	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	252440	08/01/18 10:44	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	252441	08/01/18 10:46	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		20			252536	08/02/18 09:43	JMO	TAL PIT
	Instrument ID: CHGC10									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

JMO = John Oravec

Client Sample ID: SSHS-B1065-SUB-0-2

Lab Sample ID: 180-80273-1
Date Collected: 07/27/18 14:45
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 80.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	07/31/18 11:24	08/01/18 11:51	1
PCB-1221	ND		20	13	ug/Kg	☼	07/31/18 11:24	08/01/18 11:51	1
PCB-1232	ND		20	12	ug/Kg	☼	07/31/18 11:24	08/01/18 11:51	1
PCB-1242	ND		20	12	ug/Kg	☼	07/31/18 11:24	08/01/18 11:51	1
PCB-1248	**32**		20	16	ug/Kg	☼	07/31/18 11:24	08/01/18 11:51	1
PCB-1254	**24**		20	14	ug/Kg	☼	07/31/18 11:24	08/01/18 11:51	1
PCB-1260	**10**	**J**	20	5.8	ug/Kg	☼	07/31/18 11:24	08/01/18 11:51	1
PCB-1262	ND		20	14	ug/Kg	☼	07/31/18 11:24	08/01/18 11:51	1
PCB-1268	ND		20	9.9	ug/Kg	☼	07/31/18 11:24	08/01/18 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/31/18 11:24*	*08/01/18 11:51*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/31/18 11:24*	*08/01/18 11:51*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*07/31/18 11:24*	*08/01/18 11:51*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*07/31/18 11:24*	*08/01/18 11:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.9**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**80.1**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1188-SUB-0-2

Lab Sample ID: 180-80273-2
Date Collected: 07/27/18 15:05
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 83.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	07/31/18 11:24	08/01/18 12:10	1
PCB-1221	ND		20	13	ug/Kg	☼	07/31/18 11:24	08/01/18 12:10	1
PCB-1232	ND		20	12	ug/Kg	☼	07/31/18 11:24	08/01/18 12:10	1
PCB-1242	ND		20	12	ug/Kg	☼	07/31/18 11:24	08/01/18 12:10	1
PCB-1248	**54**		20	16	ug/Kg	☼	07/31/18 11:24	08/01/18 12:10	1
PCB-1254	**45**		20	14	ug/Kg	☼	07/31/18 11:24	08/01/18 12:10	1
PCB-1260	**14**	**J**	20	5.7	ug/Kg	☼	07/31/18 11:24	08/01/18 12:10	1
PCB-1262	ND		20	14	ug/Kg	☼	07/31/18 11:24	08/01/18 12:10	1
PCB-1268	ND		20	9.7	ug/Kg	☼	07/31/18 11:24	08/01/18 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/31/18 11:24*	*08/01/18 12:10*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*07/31/18 11:24*	*08/01/18 12:10*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/31/18 11:24*	*08/01/18 12:10*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*07/31/18 11:24*	*08/01/18 12:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.2**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**83.8**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1066-SUB-0-2

Lab Sample ID: 180-80273-3

Date Collected: 07/27/18 15:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 76.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22	7.1	ug/Kg	☼	07/31/18 11:24	08/01/18 12:28	1
PCB-1221	ND		22	14	ug/Kg	☼	07/31/18 11:24	08/01/18 12:28	1
PCB-1232	ND		22	13	ug/Kg	☼	07/31/18 11:24	08/01/18 12:28	1
PCB-1242	ND		22	13	ug/Kg	☼	07/31/18 11:24	08/01/18 12:28	1
PCB-1248	**2300**		22	17	ug/Kg	☼	07/31/18 11:24	08/01/18 12:28	1
PCB-1254	**900**		22	15	ug/Kg	☼	07/31/18 11:24	08/01/18 12:28	1
PCB-1260	**150**		22	6.2	ug/Kg	☼	07/31/18 11:24	08/01/18 12:28	1
PCB-1262	ND		22	15	ug/Kg	☼	07/31/18 11:24	08/01/18 12:28	1
PCB-1268	ND		22	11	ug/Kg	☼	07/31/18 11:24	08/01/18 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/31/18 11:24*	*08/01/18 12:28*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/31/18 11:24*	*08/01/18 12:28*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/31/18 11:24*	*08/01/18 12:28*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/31/18 11:24*	*08/01/18 12:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.9**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**76.1**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1245-SUB-4-6

Lab Sample ID: 180-80273-4

Date Collected: 07/28/18 09:30
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 90.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	60	ug/Kg	☼	07/31/18 11:24	08/01/18 21:12	10
PCB-1221	ND		180	120	ug/Kg	☼	07/31/18 11:24	08/01/18 21:12	10
PCB-1232	ND		180	110	ug/Kg	☼	07/31/18 11:24	08/01/18 21:12	10
PCB-1242	ND		180	110	ug/Kg	☼	07/31/18 11:24	08/01/18 21:12	10
PCB-1248	**16000**		180	150	ug/Kg	☼	07/31/18 11:24	08/01/18 21:12	10
PCB-1254	**4200**		180	130	ug/Kg	☼	07/31/18 11:24	08/01/18 21:12	10
PCB-1260	**700**	**p**	180	52	ug/Kg	☼	07/31/18 11:24	08/01/18 21:12	10
PCB-1262	ND		180	130	ug/Kg	☼	07/31/18 11:24	08/01/18 21:12	10
PCB-1268	ND		180	89	ug/Kg	☼	07/31/18 11:24	08/01/18 21:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/31/18 11:24*	*08/01/18 21:12*	*10*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*07/31/18 11:24*	*08/01/18 21:12*	*10*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/31/18 11:24*	*08/01/18 21:12*	*10*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/31/18 11:24*	*08/01/18 21:12*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.8**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**90.2**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1245-SUB-6-8

Date Collected: 07/28/18 09:35
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-5

Matrix: Solid
Percent Solids: 85.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		200	64	ug/Kg	☼	07/31/18 11:24	08/01/18 21:31	10
PCB-1221	ND		200	130	ug/Kg	☼	07/31/18 11:24	08/01/18 21:31	10
PCB-1232	ND		200	120	ug/Kg	☼	07/31/18 11:24	08/01/18 21:31	10
PCB-1242	ND		200	120	ug/Kg	☼	07/31/18 11:24	08/01/18 21:31	10
PCB-1248	**15000**		200	160	ug/Kg	☼	07/31/18 11:24	08/01/18 21:31	10
PCB-1254	**3700**		200	130	ug/Kg	☼	07/31/18 11:24	08/01/18 21:31	10
PCB-1260	**610**		200	56	ug/Kg	☼	07/31/18 11:24	08/01/18 21:31	10
PCB-1262	ND		200	140	ug/Kg	☼	07/31/18 11:24	08/01/18 21:31	10
PCB-1268	ND		200	95	ug/Kg	☼	07/31/18 11:24	08/01/18 21:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*07/31/18 11:24*	*08/01/18 21:31*	*10*
DCB Decachlorobiphenyl (Surr)	*69*		*33 - 137*	*07/31/18 11:24*	*08/01/18 21:31*	*10*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*07/31/18 11:24*	*08/01/18 21:31*	*10*
Tetrachloro-m-xylene (Surr)	*59*		*44 - 114*	*07/31/18 11:24*	*08/01/18 21:31*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**85.0**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1082-SUB-6-8

Date Collected: 07/28/18 09:45
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-6

Matrix: Solid
Percent Solids: 88.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		940	310	ug/Kg	☼	07/31/18 11:24	08/02/18 07:32	50
PCB-1221	ND		940	610	ug/Kg	☼	07/31/18 11:24	08/02/18 07:32	50
PCB-1232	ND		940	560	ug/Kg	☼	07/31/18 11:24	08/02/18 07:32	50
PCB-1242	ND		940	560	ug/Kg	☼	07/31/18 11:24	08/02/18 07:32	50
PCB-1248	**88000**		940	740	ug/Kg	☼	07/31/18 11:24	08/02/18 07:32	50
PCB-1254	**24000**		940	640	ug/Kg	☼	07/31/18 11:24	08/02/18 07:32	50
PCB-1260	**4100**		940	270	ug/Kg	☼	07/31/18 11:24	08/02/18 07:32	50
PCB-1262	ND		940	660	ug/Kg	☼	07/31/18 11:24	08/02/18 07:32	50
PCB-1268	ND		940	460	ug/Kg	☼	07/31/18 11:24	08/02/18 07:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/31/18 11:24*	*08/02/18 07:32*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/31/18 11:24*	*08/02/18 07:32*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/31/18 11:24*	*08/02/18 07:32*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/31/18 11:24*	*08/02/18 07:32*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**88.8**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1082-SUB-8-10

Lab Sample ID: 180-80273-7

Date Collected: 07/28/18 09:50
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 84.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	62	ug/Kg	☼	07/31/18 11:24	08/02/18 07:51	10
PCB-1221	ND		190	120	ug/Kg	☼	07/31/18 11:24	08/02/18 07:51	10
PCB-1232	ND		190	110	ug/Kg	☼	07/31/18 11:24	08/02/18 07:51	10
PCB-1242	ND		190	110	ug/Kg	☼	07/31/18 11:24	08/02/18 07:51	10
PCB-1248	**24000**		190	150	ug/Kg	☼	07/31/18 11:24	08/02/18 07:51	10
PCB-1254	**6800**		190	130	ug/Kg	☼	07/31/18 11:24	08/02/18 07:51	10
PCB-1260	**1300**		190	54	ug/Kg	☼	07/31/18 11:24	08/02/18 07:51	10
PCB-1262	ND		190	130	ug/Kg	☼	07/31/18 11:24	08/02/18 07:51	10
PCB-1268	ND		190	93	ug/Kg	☼	07/31/18 11:24	08/02/18 07:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/31/18 11:24*	*08/02/18 07:51*	*10*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/31/18 11:24*	*08/02/18 07:51*	*10*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/31/18 11:24*	*08/02/18 07:51*	*10*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/31/18 11:24*	*08/02/18 07:51*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.4**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**84.6**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1239-SUB-4-6

Lab Sample ID: 180-80273-8

Date Collected: 07/28/18 10:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 88.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		930	300	ug/Kg	☼	07/31/18 11:24	08/02/18 08:10	50
PCB-1221	ND		930	600	ug/Kg	☼	07/31/18 11:24	08/02/18 08:10	50
PCB-1232	ND		930	550	ug/Kg	☼	07/31/18 11:24	08/02/18 08:10	50
PCB-1242	ND		930	560	ug/Kg	☼	07/31/18 11:24	08/02/18 08:10	50
PCB-1248	**49000**		930	740	ug/Kg	☼	07/31/18 11:24	08/02/18 08:10	50
PCB-1254	**13000**		930	640	ug/Kg	☼	07/31/18 11:24	08/02/18 08:10	50
PCB-1260	**2300**		930	270	ug/Kg	☼	07/31/18 11:24	08/02/18 08:10	50
PCB-1262	ND		930	650	ug/Kg	☼	07/31/18 11:24	08/02/18 08:10	50
PCB-1268	ND		930	450	ug/Kg	☼	07/31/18 11:24	08/02/18 08:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/31/18 11:24*	*08/02/18 08:10*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*07/31/18 11:24*	*08/02/18 08:10*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/31/18 11:24*	*08/02/18 08:10*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*07/31/18 11:24*	*08/02/18 08:10*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.8**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**88.2**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1239-SUB-6-8

Lab Sample ID: 180-80273-9

Date Collected: 07/28/18 10:05
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 86.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	60	ug/Kg	☼	07/31/18 11:24	08/02/18 08:28	10
PCB-1221	ND		190	120	ug/Kg	☼	07/31/18 11:24	08/02/18 08:28	10
PCB-1232	ND		190	110	ug/Kg	☼	07/31/18 11:24	08/02/18 08:28	10
PCB-1242	ND		190	110	ug/Kg	☼	07/31/18 11:24	08/02/18 08:28	10
PCB-1248	**21000**		190	150	ug/Kg	☼	07/31/18 11:24	08/02/18 08:28	10
PCB-1254	**4500**		190	130	ug/Kg	☼	07/31/18 11:24	08/02/18 08:28	10
PCB-1260	**1000**		190	53	ug/Kg	☼	07/31/18 11:24	08/02/18 08:28	10
PCB-1262	ND		190	130	ug/Kg	☼	07/31/18 11:24	08/02/18 08:28	10
PCB-1268	ND		190	90	ug/Kg	☼	07/31/18 11:24	08/02/18 08:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*07/31/18 11:24*	*08/02/18 08:28*	*10*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*07/31/18 11:24*	*08/02/18 08:28*	*10*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/31/18 11:24*	*08/02/18 08:28*	*10*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/31/18 11:24*	*08/02/18 08:28*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**86.9**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1193-SUB-2-4

Lab Sample ID: 180-80273-10

Date Collected: 07/28/18 10:30
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 90.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	07/31/18 11:24	08/01/18 14:58	1
PCB-1221	ND		18	12	ug/Kg	☼	07/31/18 11:24	08/01/18 14:58	1
PCB-1232	ND		18	11	ug/Kg	☼	07/31/18 11:24	08/01/18 14:58	1
PCB-1242	ND		18	11	ug/Kg	☼	07/31/18 11:24	08/01/18 14:58	1
PCB-1248	**140**		18	15	ug/Kg	☼	07/31/18 11:24	08/01/18 14:58	1
PCB-1254	**41**		18	13	ug/Kg	☼	07/31/18 11:24	08/01/18 14:58	1
PCB-1260	**7.4**	**J p**	18	5.2	ug/Kg	☼	07/31/18 11:24	08/01/18 14:58	1
PCB-1262	ND		18	13	ug/Kg	☼	07/31/18 11:24	08/01/18 14:58	1
PCB-1268	ND		18	8.9	ug/Kg	☼	07/31/18 11:24	08/01/18 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*07/31/18 11:24*	*08/01/18 14:58*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*07/31/18 11:24*	*08/01/18 14:58*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*07/31/18 11:24*	*08/01/18 14:58*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*07/31/18 11:24*	*08/01/18 14:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.0**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**90.0**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1253-SUB-6-8

Lab Sample ID: 180-80273-11

Date Collected: 07/28/18 10:40
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 91.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	59	ug/Kg	☼	07/31/18 11:24	08/02/18 08:47	10
PCB-1221	ND		180	120	ug/Kg	☼	07/31/18 11:24	08/02/18 08:47	10
PCB-1232	ND		180	110	ug/Kg	☼	07/31/18 11:24	08/02/18 08:47	10
PCB-1242	ND		180	110	ug/Kg	☼	07/31/18 11:24	08/02/18 08:47	10
PCB-1248	**11000**		180	140	ug/Kg	☼	07/31/18 11:24	08/02/18 08:47	10
PCB-1254	**3200**		180	120	ug/Kg	☼	07/31/18 11:24	08/02/18 08:47	10
PCB-1260	**600**		180	51	ug/Kg	☼	07/31/18 11:24	08/02/18 08:47	10
PCB-1262	ND		180	130	ug/Kg	☼	07/31/18 11:24	08/02/18 08:47	10
PCB-1268	ND		180	88	ug/Kg	☼	07/31/18 11:24	08/02/18 08:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*07/31/18 11:24*	*08/02/18 08:47*	*10*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*07/31/18 11:24*	*08/02/18 08:47*	*10*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/31/18 11:24*	*08/02/18 08:47*	*10*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/31/18 11:24*	*08/02/18 08:47*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.8**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**91.2**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1395-SUB-0-2

Lab Sample ID: 180-80273-12

Date Collected: 07/28/18 10:50
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 88.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/31/18 11:24	08/01/18 15:36	1
PCB-1221	ND		19	12	ug/Kg	☼	07/31/18 11:24	08/01/18 15:36	1
PCB-1232	ND		19	11	ug/Kg	☼	07/31/18 11:24	08/01/18 15:36	1
PCB-1242	ND		19	11	ug/Kg	☼	07/31/18 11:24	08/01/18 15:36	1
PCB-1248	**220**		19	15	ug/Kg	☼	07/31/18 11:24	08/01/18 15:36	1
PCB-1254	**41**		19	13	ug/Kg	☼	07/31/18 11:24	08/01/18 15:36	1
PCB-1260	ND		19	5.3	ug/Kg	☼	07/31/18 11:24	08/01/18 15:36	1
PCB-1262	ND		19	13	ug/Kg	☼	07/31/18 11:24	08/01/18 15:36	1
PCB-1268	ND		19	9.0	ug/Kg	☼	07/31/18 11:24	08/01/18 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/31/18 11:24*	*08/01/18 15:36*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/31/18 11:24*	*08/01/18 15:36*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/31/18 11:24*	*08/01/18 15:36*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/31/18 11:24*	*08/01/18 15:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**88.9**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1204-SUB-10-12

Lab Sample ID: 180-80273-13
Date Collected: 07/28/18 11:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 88.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1	19	6.1	ug/Kg	☼	07/31/18 11:24	08/01/18 15:54	1
PCB-1221	ND		19	12	ug/Kg	☼	07/31/18 11:24	08/01/18 15:54	1
PCB-1232	ND		19	11	ug/Kg	☼	07/31/18 11:24	08/01/18 15:54	1
PCB-1242	ND		19	11	ug/Kg	☼	07/31/18 11:24	08/01/18 15:54	1
PCB-1248	**1500**		19	15	ug/Kg	☼	07/31/18 11:24	08/01/18 15:54	1
PCB-1254	**620**		19	13	ug/Kg	☼	07/31/18 11:24	08/01/18 15:54	1
PCB-1260	**130**	**p**	19	5.3	ug/Kg	☼	07/31/18 11:24	08/01/18 15:54	1
PCB-1262	ND		19	13	ug/Kg	☼	07/31/18 11:24	08/01/18 15:54	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/31/18 11:24	08/01/18 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*07/31/18 11:24*	*08/01/18 15:54*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*07/31/18 11:24*	*08/01/18 15:54*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*07/31/18 11:24*	*08/01/18 15:54*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*07/31/18 11:24*	*08/01/18 15:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.0**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**88.0**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1252-SUB-6-8

Lab Sample ID: 180-80273-14
Date Collected: 07/28/18 11:10
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 88.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		370	120	ug/Kg	☼	07/31/18 11:24	08/02/18 09:06	20
PCB-1221	ND		370	240	ug/Kg	☼	07/31/18 11:24	08/02/18 09:06	20
PCB-1232	ND		370	220	ug/Kg	☼	07/31/18 11:24	08/02/18 09:06	20
PCB-1242	ND		370	220	ug/Kg	☼	07/31/18 11:24	08/02/18 09:06	20
PCB-1248	**32000**		370	290	ug/Kg	☼	07/31/18 11:24	08/02/18 09:06	20
PCB-1254	**9300**		370	250	ug/Kg	☼	07/31/18 11:24	08/02/18 09:06	20
PCB-1260	**1600**		370	110	ug/Kg	☼	07/31/18 11:24	08/02/18 09:06	20
PCB-1262	ND		370	260	ug/Kg	☼	07/31/18 11:24	08/02/18 09:06	20
PCB-1268	ND		370	180	ug/Kg	☼	07/31/18 11:24	08/02/18 09:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*07/31/18 11:24*	*08/02/18 09:06*	*20*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*07/31/18 11:24*	*08/02/18 09:06*	*20*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*07/31/18 11:24*	*08/02/18 09:06*	*20*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/31/18 11:24*	*08/02/18 09:06*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**88.1**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1238-SUB-4-6

Lab Sample ID: 180-80273-15

Date Collected: 07/28/18 11:20
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 90.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	07/31/18 11:24	08/01/18 17:09	1
PCB-1221	ND		18	12	ug/Kg	☼	07/31/18 11:24	08/01/18 17:09	1
PCB-1232	ND		18	11	ug/Kg	☼	07/31/18 11:24	08/01/18 17:09	1
PCB-1242	ND		18	11	ug/Kg	☼	07/31/18 11:24	08/01/18 17:09	1
PCB-1248	**2200**		18	14	ug/Kg	☼	07/31/18 11:24	08/01/18 17:09	1
PCB-1254	**770**		18	12	ug/Kg	☼	07/31/18 11:24	08/01/18 17:09	1
PCB-1260	**150**		18	5.1	ug/Kg	☼	07/31/18 11:24	08/01/18 17:09	1
PCB-1262	ND		18	13	ug/Kg	☼	07/31/18 11:24	08/01/18 17:09	1
PCB-1268	ND		18	8.7	ug/Kg	☼	07/31/18 11:24	08/01/18 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*07/31/18 11:24*	*08/01/18 17:09*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*07/31/18 11:24*	*08/01/18 17:09*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*07/31/18 11:24*	*08/01/18 17:09*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/31/18 11:24*	*08/01/18 17:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**90.7**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: SSHS-B1238-SUB-8-10

Lab Sample ID: 180-80273-16

Date Collected: 07/28/18 11:25
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 78.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	07/31/18 11:24	08/01/18 17:28	1
PCB-1221	ND		21	14	ug/Kg	☼	07/31/18 11:24	08/01/18 17:28	1
PCB-1232	ND		21	13	ug/Kg	☼	07/31/18 11:24	08/01/18 17:28	1
PCB-1242	ND		21	13	ug/Kg	☼	07/31/18 11:24	08/01/18 17:28	1
PCB-1248	**92**		21	17	ug/Kg	☼	07/31/18 11:24	08/01/18 17:28	1
PCB-1254	**33**		21	15	ug/Kg	☼	07/31/18 11:24	08/01/18 17:28	1
PCB-1260	ND		21	6.0	ug/Kg	☼	07/31/18 11:24	08/01/18 17:28	1
PCB-1262	ND		21	15	ug/Kg	☼	07/31/18 11:24	08/01/18 17:28	1
PCB-1268	ND		21	10	ug/Kg	☼	07/31/18 11:24	08/01/18 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/31/18 11:24*	*08/01/18 17:28*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*07/31/18 11:24*	*08/01/18 17:28*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*07/31/18 11:24*	*08/01/18 17:28*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*07/31/18 11:24*	*08/01/18 17:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.4**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**78.6**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: DUP-1

Lab Sample ID: 180-80273-17
Date Collected: 07/28/18 00:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 89.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	07/31/18 11:24	08/01/18 17:46	1
PCB-1221	ND		19	12	ug/Kg	☼	07/31/18 11:24	08/01/18 17:46	1
PCB-1232	ND		19	11	ug/Kg	☼	07/31/18 11:24	08/01/18 17:46	1
PCB-1242	ND		19	11	ug/Kg	☼	07/31/18 11:24	08/01/18 17:46	1
PCB-1248	**2100**		19	15	ug/Kg	☼	07/31/18 11:24	08/01/18 17:46	1
PCB-1254	**840**		19	13	ug/Kg	☼	07/31/18 11:24	08/01/18 17:46	1
PCB-1260	**200**		19	5.3	ug/Kg	☼	07/31/18 11:24	08/01/18 17:46	1
PCB-1262	ND		19	13	ug/Kg	☼	07/31/18 11:24	08/01/18 17:46	1
PCB-1268	ND		19	9.1	ug/Kg	☼	07/31/18 11:24	08/01/18 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*07/31/18 11:24*	*08/01/18 17:46*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/31/18 11:24*	*08/01/18 17:46*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*07/31/18 11:24*	*08/01/18 17:46*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*07/31/18 11:24*	*08/01/18 17:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**89.0**		0.1	0.1	%			07/31/18 10:39	1

Client Sample ID: DUP-2

Lab Sample ID: 180-80273-18
Date Collected: 07/28/18 00:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 85.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	62	ug/Kg	☼	07/31/18 11:24	08/02/18 09:24	10
PCB-1221	ND		190	120	ug/Kg	☼	07/31/18 11:24	08/02/18 09:24	10
PCB-1232	ND		190	110	ug/Kg	☼	07/31/18 11:24	08/02/18 09:24	10
PCB-1242	ND		190	110	ug/Kg	☼	07/31/18 11:24	08/02/18 09:24	10
PCB-1248	**15000**		190	150	ug/Kg	☼	07/31/18 11:24	08/02/18 09:24	10
PCB-1254	**4100**		190	130	ug/Kg	☼	07/31/18 11:24	08/02/18 09:24	10
PCB-1260	**770**		190	54	ug/Kg	☼	07/31/18 11:24	08/02/18 09:24	10
PCB-1262	ND		190	130	ug/Kg	☼	07/31/18 11:24	08/02/18 09:24	10
PCB-1268	ND		190	92	ug/Kg	☼	07/31/18 11:24	08/02/18 09:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*07/31/18 11:24*	*08/02/18 09:24*	*10*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*07/31/18 11:24*	*08/02/18 09:24*	*10*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*07/31/18 11:24*	*08/02/18 09:24*	*10*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/31/18 11:24*	*08/02/18 09:24*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.4**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**85.6**		0.1	0.1	%			07/31/18 10:39	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80273-1

Client Sample ID: SSHS-B1218-SUB-4-6
Date Collected: 07/28/18 10:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80273-19
Matrix: Solid
Percent Solids: 87.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		380	120	ug/Kg	☼	07/31/18 11:24	08/02/18 09:43	20
PCB-1221	ND		380	250	ug/Kg	☼	07/31/18 11:24	08/02/18 09:43	20
PCB-1232	ND		380	220	ug/Kg	☼	07/31/18 11:24	08/02/18 09:43	20
PCB-1242	ND		380	230	ug/Kg	☼	07/31/18 11:24	08/02/18 09:43	20
PCB-1248	**45000**		380	300	ug/Kg	☼	07/31/18 11:24	08/02/18 09:43	20
PCB-1254	**13000**		380	260	ug/Kg	☼	07/31/18 11:24	08/02/18 09:43	20
PCB-1260	**2400**		380	110	ug/Kg	☼	07/31/18 11:24	08/02/18 09:43	20
PCB-1262	ND		380	270	ug/Kg	☼	07/31/18 11:24	08/02/18 09:43	20
PCB-1268	ND		380	180	ug/Kg	☼	07/31/18 11:24	08/02/18 09:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*07/31/18 11:24*	*08/02/18 09:43*	*20*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*07/31/18 11:24*	*08/02/18 09:43*	*20*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*07/31/18 11:24*	*08/02/18 09:43*	*20*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*07/31/18 11:24*	*08/02/18 09:43*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		0.1	0.1	%			07/31/18 10:39	1
Percent Solids	**87.3**		0.1	0.1	%			07/31/18 10:39	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-252291/1-C
Matrix: Solid
Analysis Batch: 252374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		07/31/18 11:24	08/01/18 11:14	1
PCB-1221	ND		17	11	ug/Kg		07/31/18 11:24	08/01/18 11:14	1
PCB-1232	ND		17	9.9	ug/Kg		07/31/18 11:24	08/01/18 11:14	1
PCB-1242	ND		17	10	ug/Kg		07/31/18 11:24	08/01/18 11:14	1
PCB-1248	ND		17	13	ug/Kg		07/31/18 11:24	08/01/18 11:14	1
PCB-1254	ND		17	11	ug/Kg		07/31/18 11:24	08/01/18 11:14	1
PCB-1260	ND		17	4.7	ug/Kg		07/31/18 11:24	08/01/18 11:14	1
PCB-1262	ND		17	12	ug/Kg		07/31/18 11:24	08/01/18 11:14	1
PCB-1268	ND		17	8.1	ug/Kg		07/31/18 11:24	08/01/18 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*109*		*33 - 137*	*07/31/18 11:24*	*08/01/18 11:14*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*33 - 137*	*07/31/18 11:24*	*08/01/18 11:14*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*	*07/31/18 11:24*	*08/01/18 11:14*	*1*
Tetrachloro-m-xylene (Surr)	*105*		*44 - 114*	*07/31/18 11:24*	*08/01/18 11:14*	*1*

Lab Sample ID: LCS 180-252291/2-C
Matrix: Solid
Analysis Batch: 252374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252291

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1140		ug/Kg		85	46 - 122		
PCB-1260			1330	1070		ug/Kg		80	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*

Lab Sample ID: 180-80273-13 MS
Matrix: Solid
Analysis Batch: 252374

Client Sample ID: SSHS-B1204-SUB-10-12
Prep Type: Total/NA
Prep Batch: 252291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND	F1	1510	1970		ug/Kg	☼	130	46 - 122		
PCB-1260	130	p	1510	1090		ug/Kg	☼	64	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-80273-13 MSD
Matrix: Solid
Analysis Batch: 252374

Client Sample ID: SSHS-B1204-SUB-10-12
Prep Type: Total/NA
Prep Batch: 252291

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1	1490	1560		ug/Kg	☼	105	46 - 122	23	23
PCB-1260	130	p	1490	1180		ug/Kg	☼	70	51 - 119	8	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*72*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*

Method: 2540G - SM 2540G

Lab Sample ID: 180-80273-4 DU
Matrix: Solid
Analysis Batch: 252274

Client Sample ID: SSHS-B1245-SUB-4-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.8			10.1		%				3	20
Percent Solids	90.2			89.9		%				0.3	20

Lab Sample ID: 180-80273-17 DU
Matrix: Solid
Analysis Batch: 252274

Client Sample ID: DUP-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.0			11.2		%				2	20
Percent Solids	89.0			88.8		%				0.2	20

GC Semi VOA

Prep Batch: 252291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80273-1	SSHS-B1065-SUB-0-2	Total/NA	Solid	3541	
180-80273-2	SSHS-B1188-SUB-0-2	Total/NA	Solid	3541	
180-80273-3	SSHS-B1066-SUB-0-2	Total/NA	Solid	3541	
180-80273-4	SSHS-B1245-SUB-4-6	Total/NA	Solid	3541	
180-80273-5	SSHS-B1245-SUB-6-8	Total/NA	Solid	3541	
180-80273-6	SSHS-B1082-SUB-6-8	Total/NA	Solid	3541	
180-80273-7	SSHS-B1082-SUB-8-10	Total/NA	Solid	3541	
180-80273-8	SSHS-B1239-SUB-4-6	Total/NA	Solid	3541	
180-80273-9	SSHS-B1239-SUB-6-8	Total/NA	Solid	3541	
180-80273-10	SSHS-B1193-SUB-2-4	Total/NA	Solid	3541	
180-80273-11	SSHS-B1253-SUB-6-8	Total/NA	Solid	3541	
180-80273-12	SSHS-B1395-SUB-0-2	Total/NA	Solid	3541	
180-80273-13	SSHS-B1204-SUB-10-12	Total/NA	Solid	3541	
180-80273-14	SSHS-B1252-SUB-6-8	Total/NA	Solid	3541	
180-80273-15	SSHS-B1238-SUB-4-6	Total/NA	Solid	3541	
180-80273-16	SSHS-B1238-SUB-8-10	Total/NA	Solid	3541	
180-80273-17	DUP-1	Total/NA	Solid	3541	
180-80273-18	DUP-2	Total/NA	Solid	3541	
180-80273-19	SSHS-B1218-SUB-4-6	Total/NA	Solid	3541	
MB 180-252291/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-252291/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-80273-13 MS	SSHS-B1204-SUB-10-12	Total/NA	Solid	3541	
180-80273-13 MSD	SSHS-B1204-SUB-10-12	Total/NA	Solid	3541	

Analysis Batch: 252374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80273-1	SSHS-B1065-SUB-0-2	Total/NA	Solid	EPA 8082A	252441
180-80273-2	SSHS-B1188-SUB-0-2	Total/NA	Solid	EPA 8082A	252441
180-80273-3	SSHS-B1066-SUB-0-2	Total/NA	Solid	EPA 8082A	252441
180-80273-4	SSHS-B1245-SUB-4-6	Total/NA	Solid	EPA 8082A	252441
180-80273-5	SSHS-B1245-SUB-6-8	Total/NA	Solid	EPA 8082A	252441
180-80273-10	SSHS-B1193-SUB-2-4	Total/NA	Solid	EPA 8082A	252441
180-80273-12	SSHS-B1395-SUB-0-2	Total/NA	Solid	EPA 8082A	252441
180-80273-13	SSHS-B1204-SUB-10-12	Total/NA	Solid	EPA 8082A	252441
180-80273-15	SSHS-B1238-SUB-4-6	Total/NA	Solid	EPA 8082A	252441
180-80273-16	SSHS-B1238-SUB-8-10	Total/NA	Solid	EPA 8082A	252441
180-80273-17	DUP-1	Total/NA	Solid	EPA 8082A	252441
MB 180-252291/1-C	Method Blank	Total/NA	Solid	EPA 8082A	252441
LCS 180-252291/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	252441
180-80273-13 MS	SSHS-B1204-SUB-10-12	Total/NA	Solid	EPA 8082A	252441
180-80273-13 MSD	SSHS-B1204-SUB-10-12	Total/NA	Solid	EPA 8082A	252441

Cleanup Batch: 252440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80273-1	SSHS-B1065-SUB-0-2	Total/NA	Solid	3665A	252291
180-80273-2	SSHS-B1188-SUB-0-2	Total/NA	Solid	3665A	252291
180-80273-3	SSHS-B1066-SUB-0-2	Total/NA	Solid	3665A	252291
180-80273-4	SSHS-B1245-SUB-4-6	Total/NA	Solid	3665A	252291
180-80273-5	SSHS-B1245-SUB-6-8	Total/NA	Solid	3665A	252291
180-80273-6	SSHS-B1082-SUB-6-8	Total/NA	Solid	3665A	252291
180-80273-7	SSHS-B1082-SUB-8-10	Total/NA	Solid	3665A	252291

GC Semi VOA (Continued)

Cleanup Batch: 252440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80273-8	SSHS-B1239-SUB-4-6	Total/NA	Solid	3665A	252291
180-80273-9	SSHS-B1239-SUB-6-8	Total/NA	Solid	3665A	252291
180-80273-10	SSHS-B1193-SUB-2-4	Total/NA	Solid	3665A	252291
180-80273-11	SSHS-B1253-SUB-6-8	Total/NA	Solid	3665A	252291
180-80273-12	SSHS-B1395-SUB-0-2	Total/NA	Solid	3665A	252291
180-80273-13	SSHS-B1204-SUB-10-12	Total/NA	Solid	3665A	252291
180-80273-14	SSHS-B1252-SUB-6-8	Total/NA	Solid	3665A	252291
180-80273-15	SSHS-B1238-SUB-4-6	Total/NA	Solid	3665A	252291
180-80273-16	SSHS-B1238-SUB-8-10	Total/NA	Solid	3665A	252291
180-80273-17	DUP-1	Total/NA	Solid	3665A	252291
180-80273-18	DUP-2	Total/NA	Solid	3665A	252291
180-80273-19	SSHS-B1218-SUB-4-6	Total/NA	Solid	3665A	252291
MB 180-252291/1-C	Method Blank	Total/NA	Solid	3665A	252291
LCS 180-252291/2-C	Lab Control Sample	Total/NA	Solid	3665A	252291
180-80273-13 MS	SSHS-B1204-SUB-10-12	Total/NA	Solid	3665A	252291
180-80273-13 MSD	SSHS-B1204-SUB-10-12	Total/NA	Solid	3665A	252291

Cleanup Batch: 252441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80273-1	SSHS-B1065-SUB-0-2	Total/NA	Solid	3660B	252440
180-80273-2	SSHS-B1188-SUB-0-2	Total/NA	Solid	3660B	252440
180-80273-3	SSHS-B1066-SUB-0-2	Total/NA	Solid	3660B	252440
180-80273-4	SSHS-B1245-SUB-4-6	Total/NA	Solid	3660B	252440
180-80273-5	SSHS-B1245-SUB-6-8	Total/NA	Solid	3660B	252440
180-80273-6	SSHS-B1082-SUB-6-8	Total/NA	Solid	3660B	252440
180-80273-7	SSHS-B1082-SUB-8-10	Total/NA	Solid	3660B	252440
180-80273-8	SSHS-B1239-SUB-4-6	Total/NA	Solid	3660B	252440
180-80273-9	SSHS-B1239-SUB-6-8	Total/NA	Solid	3660B	252440
180-80273-10	SSHS-B1193-SUB-2-4	Total/NA	Solid	3660B	252440
180-80273-11	SSHS-B1253-SUB-6-8	Total/NA	Solid	3660B	252440
180-80273-12	SSHS-B1395-SUB-0-2	Total/NA	Solid	3660B	252440
180-80273-13	SSHS-B1204-SUB-10-12	Total/NA	Solid	3660B	252440
180-80273-14	SSHS-B1252-SUB-6-8	Total/NA	Solid	3660B	252440
180-80273-15	SSHS-B1238-SUB-4-6	Total/NA	Solid	3660B	252440
180-80273-16	SSHS-B1238-SUB-8-10	Total/NA	Solid	3660B	252440
180-80273-17	DUP-1	Total/NA	Solid	3660B	252440
180-80273-18	DUP-2	Total/NA	Solid	3660B	252440
180-80273-19	SSHS-B1218-SUB-4-6	Total/NA	Solid	3660B	252440
MB 180-252291/1-C	Method Blank	Total/NA	Solid	3660B	252440
LCS 180-252291/2-C	Lab Control Sample	Total/NA	Solid	3660B	252440
180-80273-13 MS	SSHS-B1204-SUB-10-12	Total/NA	Solid	3660B	252440
180-80273-13 MSD	SSHS-B1204-SUB-10-12	Total/NA	Solid	3660B	252440

Analysis Batch: 252536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80273-6	SSHS-B1082-SUB-6-8	Total/NA	Solid	EPA 8082A	252441
180-80273-7	SSHS-B1082-SUB-8-10	Total/NA	Solid	EPA 8082A	252441
180-80273-8	SSHS-B1239-SUB-4-6	Total/NA	Solid	EPA 8082A	252441
180-80273-9	SSHS-B1239-SUB-6-8	Total/NA	Solid	EPA 8082A	252441
180-80273-11	SSHS-B1253-SUB-6-8	Total/NA	Solid	EPA 8082A	252441
180-80273-14	SSHS-B1252-SUB-6-8	Total/NA	Solid	EPA 8082A	252441

GC Semi VOA (Continued)

Analysis Batch: 252536 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80273-18	DUP-2	Total/NA	Solid	EPA 8082A	252441
180-80273-19	SSHS-B1218-SUB-4-6	Total/NA	Solid	EPA 8082A	252441

General Chemistry

Analysis Batch: 252274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80273-1	SSHS-B1065-SUB-0-2	Total/NA	Solid	2540G	
180-80273-2	SSHS-B1188-SUB-0-2	Total/NA	Solid	2540G	
180-80273-3	SSHS-B1066-SUB-0-2	Total/NA	Solid	2540G	
180-80273-4	SSHS-B1245-SUB-4-6	Total/NA	Solid	2540G	
180-80273-5	SSHS-B1245-SUB-6-8	Total/NA	Solid	2540G	
180-80273-6	SSHS-B1082-SUB-6-8	Total/NA	Solid	2540G	
180-80273-7	SSHS-B1082-SUB-8-10	Total/NA	Solid	2540G	
180-80273-8	SSHS-B1239-SUB-4-6	Total/NA	Solid	2540G	
180-80273-9	SSHS-B1239-SUB-6-8	Total/NA	Solid	2540G	
180-80273-10	SSHS-B1193-SUB-2-4	Total/NA	Solid	2540G	
180-80273-11	SSHS-B1253-SUB-6-8	Total/NA	Solid	2540G	
180-80273-12	SSHS-B1395-SUB-0-2	Total/NA	Solid	2540G	
180-80273-13	SSHS-B1204-SUB-10-12	Total/NA	Solid	2540G	
180-80273-14	SSHS-B1252-SUB-6-8	Total/NA	Solid	2540G	
180-80273-15	SSHS-B1238-SUB-4-6	Total/NA	Solid	2540G	
180-80273-16	SSHS-B1238-SUB-8-10	Total/NA	Solid	2540G	
180-80273-17	DUP-1	Total/NA	Solid	2540G	
180-80273-18	DUP-2	Total/NA	Solid	2540G	
180-80273-19	SSHS-B1218-SUB-4-6	Total/NA	Solid	2540G	
180-80273-4 DU	SSHS-B1245-SUB-4-6	Total/NA	Solid	2540G	
180-80273-17 DU	DUP-1	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: George Wangura: Ashwin	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: Geoprobe (1)
Client Contact: Aron Krasnopoler	Phone: 412 552 4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 2
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days): 1Dayturnaround			
State, Zip: MD, 21044				
Phone: (202) 550-7724	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #:			
Site: EHS.	SSOW#:			

Analysis Requested

180-80273 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SSHS-B1065-SUB-0-2	7/27/18	1445	C	Solid	N	N	X	2	
SSHS-B1188-SUB-0-2	7/27/18	1505	C	Solid	N	N	X	2	
SSHS-B1066-SUB-0-2	7/27/18	1500	C	Solid	N	N	X	2	
SSHS-B1245-SUB-4-6	7/28/18	0930	C	Solid	N	N	X	2	
SSHS-B1245-SUB-6-8	7/28/18	0935	C	Solid	N	N	X	2	
SSHS-B1082-SUB-6-8	7/28/18	0945	C	Solid	N	N	X	2	
SSHS-B1082-SUB-8-10	7/28/18	0950	C	Solid	N	N	X	2	
SSHS-B1239-SUB-4-6		1000	C	Solid	N	N	X	2	
SSHS-B1239-SUB-6-8		1005	C	Solid	N	N	X	2	
SSHS-B1193-SUB-2-4		1030	C	Solid	N	N	X	2	
SSHS-B1263-SUB-6-8		1040	C	Solid	N	N	X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Handed over to Fedex @ 1830 by Ashwin Ranna of Geosyntec on 7/30/2018

Ashwin

Rec'd [signature] TA Pitt 7/31/18 850

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: George Wanjiru; Ashwin	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: Geoprobe 2
Client Contact: Aron Krasnopoler	Phone: 412 352 4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 2
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days): 1 Day turnaround			
State, Zip: MD, 21044				
Phone: (202) 550-7724	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #:			
Site: EHS	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SSHS-B1395-SUB-0-2	7/28/18	1050	G	Solid	N	N	X	2	
SSHS-B1204-SUB-10-12		1100	C	Solid	N	Y	X	4	Perform MS/MSD-1
SSHS-B1252-SUB-6-8		1110	C	Solid	N	N	X	2	
SSHS-B1238-SUB-4-6		1120	C	Solid	N	N	X	2	
SSHS-B1238-SUB-8-10		1125	C	Solid	N	N	X	2	
DUP-1		—	C	Solid	N	N	X	2	
DUP-2		—	C	Solid	N	N	X	2	
				Solid	N				
SSHS-B1238-SUB-4-6 Also received this 7/31/18 TS	7/28/18	1010		Solid	N		X		
				Solid	N				
				Solid	N				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Handed over to Fedex @ 1830 by Ashwin Ranna of Geosyntec on 7/30/2018
Ashwin

Rec'd 7/31/18 850
TA PITT

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80273-1

Login Number: 80273
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	also rec SSHS-B1218-SUB-4-6 no on COC
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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80274-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/21/2018 11:32:06 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

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Job ID: 180-80274-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80274-1

Comments
Notation was made to the chain of custody with regards to sample B-E-4 and B-S-5 not being received and additional containers being received for ms/msd for sample G-S-2-1. As discussed with the client, the ms/msd was to be completed.

Receipt
The samples were received on 7/31/2018 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.4º C, 3.1º C and 3.6º C.

GC Semi VOA
Method(s) 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: G-S-2-1 (180-80274-1). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: Sample E-N-3-2 (180-80274-25) and the matrix spike of sample G-S-3-2 (180-80274-5) had the recovery of surrogate tetrachloro-m-xylene above the control limits on one column. Sample E-N-4-2 (180-80274-29) had the recovery of surrogates tetrachloro-m-xylene and decachlorobiphenyl above the control limits on one column.

Method(s) 8082A: The matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPD between the spikes of sample G-S-2-1 (180-80274-1) were above the control limits for aroclor 1016. The recoveries of the laboratory control sample (LCS) were within the control limits

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253105 (CCV 180-253105/5) was above criteria for 2 peaks for aroclor1016 on column RTX-CLP1. The associated sample results were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253212 was above criteria for 2 peaks for aroclor 1248 (CCV 180-253212/4) on column RTX-CLP1. The associated positive sample results for aroclor 1248 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verifications (CCVs) analyzed in batch 180-253212 were above criteria for aroclor 1016 (CCVIS 180-253212/5 and CCVIS 180-253212/26) on column RTX-CLP1. As the CCVs were high and aroclor 1016 was not detected in the associated samples, the results were reported.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253213 (CCV 180-253213/1) was below criteria for 3 peaks for aroclor 1254 on column RTX-CLP2. The associated sample results were reported from column RTX-CLP1 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253213 (CCV 180-253213/4) was below criteria for 1 peak for aroclor 1248 on column RTX-CLP1. This peak was not used in the quantitation of sample results for aroclor 1248.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253213 (CCVIS 180-253213/5) was above criteria for 2 peaks for aroclor 1016 on column RTX-CLP1 and above criteria for 1 peak on column RTX-CLP2. As the CCV was high and aroclor 1016 was not detected in the associated samples, the results were reported.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253213 (CCVIS 180-253213/5) was above criteria for 1 peak for aroclor 1260 on column RTX-CLP2. This peak was not used in the quantitation of sample results for aroclor 1260 or the aroclor 1260 sample results were reported from column RX-CLP1 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253213 (CCVIS 180-253213/26) was above criteria for 3 peaks for aroclor 1016 on column RTX-CLP1 and above criteria for 1 peak on column RTX-CLP2. As the CCV was high and aroclor 1016 was not detected in the associated samples, the results were reported.

Job ID: 180-80274-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253213 (CCVIS 180-253213/26) was above criteria for 1 peak for aroclor 1260 on column RTX-CLP1. The positive aroclor 1260 sample results were reported from column RX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

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

Metals

Method(s) 7471B: The matrix spike/matrix spike duplicate (MS/MSD) of sample E-N-3-4 (180-80274-27) recovered above the control limits for mercury. The RPD between the spikes and the recovery of the laboratory control sample were within the control limits.

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

General Chemistry

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80274-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80274-1	G-S-2-1	Solid	07/26/18 12:25	07/31/18 08:50
180-80274-2	G-S-2-2	Solid	07/26/18 12:30	07/31/18 08:50
180-80274-3	G-S-2-3	Solid	07/26/18 12:35	07/31/18 08:50
180-80274-4	G-S-3-1	Solid	07/26/18 12:50	07/31/18 08:50
180-80274-5	G-S-3-2	Solid	07/26/18 12:55	07/31/18 08:50
180-80274-6	G-S-3-3	Solid	07/26/18 13:00	07/31/18 08:50
180-80274-7	G-S-4-1	Solid	07/26/18 13:15	07/31/18 08:50
180-80274-8	G-S-4-2	Solid	07/26/18 13:20	07/31/18 08:50
180-80274-9	G-S-4-3	Solid	07/26/18 13:25	07/31/18 08:50
180-80274-10	E-N-1-1	Solid	07/26/18 14:00	07/31/18 08:50
180-80274-11	E-N-2-1	Solid	07/26/18 14:30	07/31/18 08:50
180-80274-12	E-S-5-2	Solid	07/26/18 15:50	07/31/18 08:50
180-80274-13	E-S-4-2	Solid	07/26/18 17:05	07/31/18 08:50
180-80274-14	E-S-3-2	Solid	07/26/18 17:15	07/31/18 08:50
180-80274-15	S-N-4-2	Solid	07/26/18 17:00	07/31/18 08:50
180-80274-16	S-N-5-1	Solid	07/26/18 17:10	07/31/18 08:50
180-80274-17	S-N-3-1	Solid	07/26/18 17:20	07/31/18 08:50
180-80274-18	B-E-1	Solid	07/26/18 16:00	07/31/18 08:50
180-80274-19	B-E-2	Solid	07/26/18 16:05	07/31/18 08:50
180-80274-20	B-E-3	Solid	07/26/18 16:10	07/31/18 08:50
180-80274-22	B-E-5	Solid	07/26/18 16:20	07/31/18 08:50
180-80274-23	E-N-2-3	Solid	07/26/18 14:40	07/31/18 08:50
180-80274-24	E-N-3-1	Solid	07/26/18 14:45	07/31/18 08:50
180-80274-25	E-N-3-2	Solid	07/26/18 14:50	07/31/18 08:50
180-80274-26	E-N-3-3	Solid	07/26/18 14:55	07/31/18 08:50
180-80274-27	E-N-3-4	Solid	07/26/18 15:00	07/31/18 08:50
180-80274-28	E-N-4-1	Solid	07/26/18 15:05	07/31/18 08:50
180-80274-29	E-N-4-2	Solid	07/26/18 15:10	07/31/18 08:50
180-80274-30	E-N-4-3	Solid	07/26/18 15:15	07/31/18 08:50
180-80274-31	E-N-5-1	Solid	07/26/18 15:25	07/31/18 08:50
180-80274-32	B-S-4	Solid	07/26/18 16:30	07/31/18 08:50
180-80274-34	DUP-1	Solid	07/26/18 00:00	07/31/18 08:50
180-80274-35	DUP-2	Solid	07/26/18 00:00	07/31/18 08:50
180-80274-36	G-S-3-4	Solid	07/26/18 13:05	07/31/18 08:50

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
EPA 6010C	Metals (ICP)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3050B	Preparation, Metals	SW846	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: G-S-2-1
Date Collected: 07/26/18 12:25
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-2-1
Date Collected: 07/26/18 12:25
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-1
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		10			253105	08/08/18 10:49	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: G-S-2-2
Date Collected: 07/26/18 12:30
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-2-2
Date Collected: 07/26/18 12:30
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-2
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 19:34	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: G-S-2-3
Date Collected: 07/26/18 12:35
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-2-3
Date Collected: 07/26/18 12:35
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-3
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 19:53	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: G-S-3-1
Date Collected: 07/26/18 12:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-3-1
Date Collected: 07/26/18 12:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-4
Matrix: Solid
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 20:13	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: G-S-3-2
Date Collected: 07/26/18 12:55
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-3-2
Date Collected: 07/26/18 12:55
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-5
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 08:34	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: G-S-3-3
Date Collected: 07/26/18 13:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-3-3
Date Collected: 07/26/18 13:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-6
Matrix: Solid
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 20:33	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: G-S-4-1
Date Collected: 07/26/18 13:15
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-4-1
Date Collected: 07/26/18 13:15
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-7
Matrix: Solid
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 20:52	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: G-S-4-2
Date Collected: 07/26/18 13:20
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-4-2

Date Collected: 07/26/18 13:20
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-8

Matrix: Solid
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 21:12	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: G-S-4-3

Date Collected: 07/26/18 13:25
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-4-3

Date Collected: 07/26/18 13:25
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-9

Matrix: Solid
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 23:30	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: E-N-1-1

Date Collected: 07/26/18 14:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-1-1

Date Collected: 07/26/18 14:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-10

Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 23:10	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: E-N-2-1
Date Collected: 07/26/18 14:30
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-2-1
Date Collected: 07/26/18 14:30
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-11
Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 22:50	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: E-S-5-2
Date Collected: 07/26/18 15:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-5-2
Date Collected: 07/26/18 15:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-12
Matrix: Solid
Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 22:31	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: E-S-4-2
Date Collected: 07/26/18 17:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: E-S-4-2
Date Collected: 07/26/18 17:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-13
Matrix: Solid
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	252912	08/06/18 11:54	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253052	08/07/18 13:23	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253053	08/07/18 13:26	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253033	08/07/18 22:11	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: E-S-3-2
Date Collected: 07/26/18 17:15
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-3-2
Date Collected: 07/26/18 17:15
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-14
Matrix: Solid
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 09:39	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: S-N-4-2
Date Collected: 07/26/18 17:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: S-N-4-2
Date Collected: 07/26/18 17:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-15
Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 10:00	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: S-N-5-1
Date Collected: 07/26/18 17:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: S-N-5-1
Date Collected: 07/26/18 17:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-16
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 10:22	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: S-N-3-1
Date Collected: 07/26/18 17:20
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252614	08/02/18 12:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: S-N-3-1
Date Collected: 07/26/18 17:20
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-17
Matrix: Solid
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 10:43	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: B-E-1
Date Collected: 07/26/18 16:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: B-E-1
Date Collected: 07/26/18 16:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-18
Matrix: Solid
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 11:05	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: B-E-2
Date Collected: 07/26/18 16:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: B-E-2
Date Collected: 07/26/18 16:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-19
Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 11:27	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: B-E-3
Date Collected: 07/26/18 16:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: B-E-3
Date Collected: 07/26/18 16:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-20
Matrix: Solid
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 11:45	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: B-E-5
Date Collected: 07/26/18 16:20
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: B-E-5
Date Collected: 07/26/18 16:20
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-22
Matrix: Solid
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 12:07	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: E-N-2-3
Date Collected: 07/26/18 14:40
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-2-3
Date Collected: 07/26/18 14:40
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-23
Matrix: Solid
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 12:29	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: E-N-3-1
Date Collected: 07/26/18 14:45
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: E-N-3-1
Date Collected: 07/26/18 14:45
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-24
Matrix: Solid
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 12:49	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: E-N-3-2
Date Collected: 07/26/18 14:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-3-2
Date Collected: 07/26/18 14:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-25
Matrix: Solid
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 13:11	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: E-N-3-3
Date Collected: 07/26/18 14:55
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-3-3
Date Collected: 07/26/18 14:55
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-26
Matrix: Solid
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 13:32	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: E-N-3-4
Date Collected: 07/26/18 15:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-3-4
Date Collected: 07/26/18 15:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-27
Matrix: Solid
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 13:54	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.95 g	100 mL	252457	08/01/18 11:34	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			252706	08/03/18 07:58	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.55 g	100.0 mL	254072	08/16/18 09:32	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 09:49	RSK	TAL PIT
	Instrument ID: K									

Client Sample ID: E-N-4-1
Date Collected: 07/26/18 15:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-4-1
Date Collected: 07/26/18 15:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-28
Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 14:16	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: E-N-4-2
Date Collected: 07/26/18 15:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-4-2
Date Collected: 07/26/18 15:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-29
Matrix: Solid
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 14:37	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: E-N-4-3
Date Collected: 07/26/18 15:15
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-4-3
Date Collected: 07/26/18 15:15
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-30
Matrix: Solid
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 15:43	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: E-N-5-1
Date Collected: 07/26/18 15:25
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: E-N-5-1

Lab Sample ID: 180-80274-31
Date Collected: 07/26/18 15:25
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 16:05	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: B-S-4

Lab Sample ID: 180-80274-32
Date Collected: 07/26/18 16:30
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: B-S-4

Lab Sample ID: 180-80274-32
Date Collected: 07/26/18 16:30
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 16:26	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: DUP-1

Lab Sample ID: 180-80274-34
Date Collected: 07/26/18 00:00
Matrix: Solid
Date Received: 07/31/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252582	08/02/18 10:01	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-1

Lab Sample ID: 180-80274-34
Date Collected: 07/26/18 00:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253064	08/07/18 14:11	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253152	08/08/18 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253154	08/08/18 11:20	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253213	08/09/18 16:48	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: DUP-2
Date Collected: 07/26/18 00:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252606	08/02/18 11:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-2
Date Collected: 07/26/18 00:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-35
Matrix: Solid
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253190	08/08/18 14:53	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253250	08/09/18 10:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253251	08/09/18 10:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253212	08/09/18 21:01	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: G-S-3-4
Date Collected: 07/26/18 13:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252606	08/02/18 11:39	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: G-S-3-4
Date Collected: 07/26/18 13:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-36
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253190	08/08/18 14:53	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253250	08/09/18 10:02	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253251	08/09/18 10:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253212	08/09/18 21:20	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.01 g	100 mL	252457	08/01/18 11:34	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			252706	08/03/18 08:03	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100.0 mL	254072	08/16/18 09:32	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 09:56	RSK	TAL PIT
	Instrument ID: K									

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

JMO = John Oravec

Batch Type: Prep

KA = Kayla Kalamasz

RSK = Robert Kurtz

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

CMR = Carl Reagle

JMO = John Oravec

RJG = Rob Good

RSK = Robert Kurtz

Client Sample ID: G-S-2-1

Date Collected: 07/26/18 12:25
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-1

Matrix: Solid
Percent Solids: 84.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1 F2	190	63	ug/Kg	☼	08/06/18 11:54	08/08/18 10:49	10
PCB-1221	ND		190	130	ug/Kg	☼	08/06/18 11:54	08/08/18 10:49	10
PCB-1232	ND		190	120	ug/Kg	☼	08/06/18 11:54	08/08/18 10:49	10
PCB-1242	ND		190	120	ug/Kg	☼	08/06/18 11:54	08/08/18 10:49	10
PCB-1248	**33000**		190	150	ug/Kg	☼	08/06/18 11:54	08/08/18 10:49	10
PCB-1254	**14000**		190	130	ug/Kg	☼	08/06/18 11:54	08/08/18 10:49	10
PCB-1260	**1000**		190	55	ug/Kg	☼	08/06/18 11:54	08/08/18 10:49	10
PCB-1262	ND		190	140	ug/Kg	☼	08/06/18 11:54	08/08/18 10:49	10
PCB-1268	ND		190	94	ug/Kg	☼	08/06/18 11:54	08/08/18 10:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*101*		*33 - 137*	*08/06/18 11:54*	*08/08/18 10:49*	*10*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/06/18 11:54*	*08/08/18 10:49*	*10*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*08/06/18 11:54*	*08/08/18 10:49*	*10*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*08/06/18 11:54*	*08/08/18 10:49*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.4**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**84.6**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: G-S-2-2

Date Collected: 07/26/18 12:30
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-2

Matrix: Solid
Percent Solids: 88.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	08/06/18 11:54	08/07/18 19:34	1
PCB-1221	ND		18	12	ug/Kg	☼	08/06/18 11:54	08/07/18 19:34	1
PCB-1232	ND		18	11	ug/Kg	☼	08/06/18 11:54	08/07/18 19:34	1
PCB-1242	ND		18	11	ug/Kg	☼	08/06/18 11:54	08/07/18 19:34	1
PCB-1248	**2300**		18	14	ug/Kg	☼	08/06/18 11:54	08/07/18 19:34	1
PCB-1254	**1000**		18	13	ug/Kg	☼	08/06/18 11:54	08/07/18 19:34	1
PCB-1260	**150**		18	5.2	ug/Kg	☼	08/06/18 11:54	08/07/18 19:34	1
PCB-1262	ND		18	13	ug/Kg	☼	08/06/18 11:54	08/07/18 19:34	1
PCB-1268	ND		18	8.9	ug/Kg	☼	08/06/18 11:54	08/07/18 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*08/06/18 11:54*	*08/07/18 19:34*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*08/06/18 11:54*	*08/07/18 19:34*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*08/06/18 11:54*	*08/07/18 19:34*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*08/06/18 11:54*	*08/07/18 19:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**88.8**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: G-S-2-3

Date Collected: 07/26/18 12:35
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-3
Matrix: Solid
Percent Solids: 82.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/06/18 11:54	08/07/18 19:53	1
PCB-1221	ND		20	13	ug/Kg	☼	08/06/18 11:54	08/07/18 19:53	1
PCB-1232	ND		20	12	ug/Kg	☼	08/06/18 11:54	08/07/18 19:53	1
PCB-1242	ND		20	12	ug/Kg	☼	08/06/18 11:54	08/07/18 19:53	1
PCB-1248	**1400**		20	16	ug/Kg	☼	08/06/18 11:54	08/07/18 19:53	1
PCB-1254	**580**		20	13	ug/Kg	☼	08/06/18 11:54	08/07/18 19:53	1
PCB-1260	**36**		20	5.6	ug/Kg	☼	08/06/18 11:54	08/07/18 19:53	1
PCB-1262	ND		20	14	ug/Kg	☼	08/06/18 11:54	08/07/18 19:53	1
PCB-1268	ND		20	9.6	ug/Kg	☼	08/06/18 11:54	08/07/18 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*08/06/18 11:54*	*08/07/18 19:53*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*33 - 137*	*08/06/18 11:54*	*08/07/18 19:53*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/06/18 11:54*	*08/07/18 19:53*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*08/06/18 11:54*	*08/07/18 19:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**82.4**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: G-S-3-1

Date Collected: 07/26/18 12:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-4
Matrix: Solid
Percent Solids: 77.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	08/06/18 11:54	08/07/18 20:13	1
PCB-1221	ND		21	14	ug/Kg	☼	08/06/18 11:54	08/07/18 20:13	1
PCB-1232	ND		21	13	ug/Kg	☼	08/06/18 11:54	08/07/18 20:13	1
PCB-1242	ND		21	13	ug/Kg	☼	08/06/18 11:54	08/07/18 20:13	1
PCB-1248	**5200**		21	17	ug/Kg	☼	08/06/18 11:54	08/07/18 20:13	1
PCB-1254	**2200**		21	15	ug/Kg	☼	08/06/18 11:54	08/07/18 20:13	1
PCB-1260	**200**		21	6.0	ug/Kg	☼	08/06/18 11:54	08/07/18 20:13	1
PCB-1262	ND		21	15	ug/Kg	☼	08/06/18 11:54	08/07/18 20:13	1
PCB-1268	ND		21	10	ug/Kg	☼	08/06/18 11:54	08/07/18 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*08/06/18 11:54*	*08/07/18 20:13*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*08/06/18 11:54*	*08/07/18 20:13*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*08/06/18 11:54*	*08/07/18 20:13*	*1*
Tetrachloro-m-xylene (Surr)	*63*		*44 - 114*	*08/06/18 11:54*	*08/07/18 20:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.5**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**77.5**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: G-S-3-2

Date Collected: 07/26/18 12:55
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-5
Matrix: Solid
Percent Solids: 84.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	08/07/18 14:11	08/09/18 08:34	1
PCB-1221	ND		19	12	ug/Kg	☼	08/07/18 14:11	08/09/18 08:34	1
PCB-1232	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 08:34	1
PCB-1242	ND		19	12	ug/Kg	☼	08/07/18 14:11	08/09/18 08:34	1
PCB-1248	**700**		19	15	ug/Kg	☼	08/07/18 14:11	08/09/18 08:34	1
PCB-1254	**260**		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 08:34	1
PCB-1260	**85**		19	5.5	ug/Kg	☼	08/07/18 14:11	08/09/18 08:34	1
PCB-1262	ND		19	14	ug/Kg	☼	08/07/18 14:11	08/09/18 08:34	1
PCB-1268	ND		19	9.3	ug/Kg	☼	08/07/18 14:11	08/09/18 08:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/07/18 14:11*	*08/09/18 08:34*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/07/18 14:11*	*08/09/18 08:34*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*	*08/07/18 14:11*	*08/09/18 08:34*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*08/07/18 14:11*	*08/09/18 08:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.1**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**84.9**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: G-S-3-3

Date Collected: 07/26/18 13:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-6
Matrix: Solid
Percent Solids: 80.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.7	ug/Kg	☼	08/06/18 11:54	08/07/18 20:33	1
PCB-1221	ND		21	13	ug/Kg	☼	08/06/18 11:54	08/07/18 20:33	1
PCB-1232	ND		21	12	ug/Kg	☼	08/06/18 11:54	08/07/18 20:33	1
PCB-1242	ND		21	12	ug/Kg	☼	08/06/18 11:54	08/07/18 20:33	1
PCB-1248	**1000**		21	16	ug/Kg	☼	08/06/18 11:54	08/07/18 20:33	1
PCB-1254	**1200**		21	14	ug/Kg	☼	08/06/18 11:54	08/07/18 20:33	1
PCB-1260	**110**		21	5.9	ug/Kg	☼	08/06/18 11:54	08/07/18 20:33	1
PCB-1262	ND		21	15	ug/Kg	☼	08/06/18 11:54	08/07/18 20:33	1
PCB-1268	ND		21	10	ug/Kg	☼	08/06/18 11:54	08/07/18 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*	*08/06/18 11:54*	*08/07/18 20:33*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*08/06/18 11:54*	*08/07/18 20:33*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*08/06/18 11:54*	*08/07/18 20:33*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*08/06/18 11:54*	*08/07/18 20:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.5**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**80.5**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: G-S-4-1

Date Collected: 07/26/18 13:15
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-7
Matrix: Solid
Percent Solids: 86.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/06/18 11:54	08/07/18 20:52	1
PCB-1221	ND		19	12	ug/Kg	☼	08/06/18 11:54	08/07/18 20:52	1
PCB-1232	ND		19	11	ug/Kg	☼	08/06/18 11:54	08/07/18 20:52	1
PCB-1242	ND		19	11	ug/Kg	☼	08/06/18 11:54	08/07/18 20:52	1
PCB-1248	**3600**		19	15	ug/Kg	☼	08/06/18 11:54	08/07/18 20:52	1
PCB-1254	**1500**		19	13	ug/Kg	☼	08/06/18 11:54	08/07/18 20:52	1
PCB-1260	**140**		19	5.4	ug/Kg	☼	08/06/18 11:54	08/07/18 20:52	1
PCB-1262	ND		19	13	ug/Kg	☼	08/06/18 11:54	08/07/18 20:52	1
PCB-1268	ND		19	9.3	ug/Kg	☼	08/06/18 11:54	08/07/18 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*08/06/18 11:54*	*08/07/18 20:52*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*08/06/18 11:54*	*08/07/18 20:52*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*08/06/18 11:54*	*08/07/18 20:52*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*08/06/18 11:54*	*08/07/18 20:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.8**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**86.2**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: G-S-4-2

Date Collected: 07/26/18 13:20
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-8
Matrix: Solid
Percent Solids: 72.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		23	7.5	ug/Kg	☼	08/06/18 11:54	08/07/18 21:12	1
PCB-1221	ND		23	15	ug/Kg	☼	08/06/18 11:54	08/07/18 21:12	1
PCB-1232	ND		23	14	ug/Kg	☼	08/06/18 11:54	08/07/18 21:12	1
PCB-1242	ND		23	14	ug/Kg	☼	08/06/18 11:54	08/07/18 21:12	1
PCB-1248	**1600**		23	18	ug/Kg	☼	08/06/18 11:54	08/07/18 21:12	1
PCB-1254	**860**		23	16	ug/Kg	☼	08/06/18 11:54	08/07/18 21:12	1
PCB-1260	**83**		23	6.5	ug/Kg	☼	08/06/18 11:54	08/07/18 21:12	1
PCB-1262	ND		23	16	ug/Kg	☼	08/06/18 11:54	08/07/18 21:12	1
PCB-1268	ND		23	11	ug/Kg	☼	08/06/18 11:54	08/07/18 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*	*p*	*33 - 137*	*08/06/18 11:54*	*08/07/18 21:12*	*1*
DCB Decachlorobiphenyl (Surr)	*136*		*33 - 137*	*08/06/18 11:54*	*08/07/18 21:12*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*08/06/18 11:54*	*08/07/18 21:12*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*44 - 114*	*08/06/18 11:54*	*08/07/18 21:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.3**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**72.7**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: G-S-4-3

Date Collected: 07/26/18 13:25
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-9
Matrix: Solid
Percent Solids: 77.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.8	ug/Kg	☼	08/06/18 11:54	08/07/18 23:30	1
PCB-1221	ND		21	14	ug/Kg	☼	08/06/18 11:54	08/07/18 23:30	1
PCB-1232	ND		21	12	ug/Kg	☼	08/06/18 11:54	08/07/18 23:30	1
PCB-1242	ND		21	13	ug/Kg	☼	08/06/18 11:54	08/07/18 23:30	1
PCB-1248	**1500**		21	17	ug/Kg	☼	08/06/18 11:54	08/07/18 23:30	1
PCB-1254	**720**		21	14	ug/Kg	☼	08/06/18 11:54	08/07/18 23:30	1
PCB-1260	**60**		21	6.0	ug/Kg	☼	08/06/18 11:54	08/07/18 23:30	1
PCB-1262	ND		21	15	ug/Kg	☼	08/06/18 11:54	08/07/18 23:30	1
PCB-1268	ND		21	10	ug/Kg	☼	08/06/18 11:54	08/07/18 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*08/06/18 11:54*	*08/07/18 23:30*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*08/06/18 11:54*	*08/07/18 23:30*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*08/06/18 11:54*	*08/07/18 23:30*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*44 - 114*	*08/06/18 11:54*	*08/07/18 23:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.0**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**77.0**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: E-N-1-1

Date Collected: 07/26/18 14:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-10
Matrix: Solid
Percent Solids: 85.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/06/18 11:54	08/07/18 23:10	1
PCB-1221	ND		19	12	ug/Kg	☼	08/06/18 11:54	08/07/18 23:10	1
PCB-1232	ND		19	11	ug/Kg	☼	08/06/18 11:54	08/07/18 23:10	1
PCB-1242	ND		19	11	ug/Kg	☼	08/06/18 11:54	08/07/18 23:10	1
PCB-1248	**390**		19	15	ug/Kg	☼	08/06/18 11:54	08/07/18 23:10	1
PCB-1254	**440**		19	13	ug/Kg	☼	08/06/18 11:54	08/07/18 23:10	1
PCB-1260	**51**		19	5.4	ug/Kg	☼	08/06/18 11:54	08/07/18 23:10	1
PCB-1262	ND		19	13	ug/Kg	☼	08/06/18 11:54	08/07/18 23:10	1
PCB-1268	ND		19	9.3	ug/Kg	☼	08/06/18 11:54	08/07/18 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*08/06/18 11:54*	*08/07/18 23:10*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*08/06/18 11:54*	*08/07/18 23:10*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*08/06/18 11:54*	*08/07/18 23:10*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*44 - 114*	*08/06/18 11:54*	*08/07/18 23:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.6**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**85.4**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: E-N-2-1

Date Collected: 07/26/18 14:30
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-11

Matrix: Solid
Percent Solids: 88.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/06/18 11:54	08/07/18 22:50	1
PCB-1221	ND		19	12	ug/Kg	☼	08/06/18 11:54	08/07/18 22:50	1
PCB-1232	ND		19	11	ug/Kg	☼	08/06/18 11:54	08/07/18 22:50	1
PCB-1242	ND		19	11	ug/Kg	☼	08/06/18 11:54	08/07/18 22:50	1
PCB-1248	**1800**		19	15	ug/Kg	☼	08/06/18 11:54	08/07/18 22:50	1
PCB-1254	**890**		19	13	ug/Kg	☼	08/06/18 11:54	08/07/18 22:50	1
PCB-1260	**130**		19	5.3	ug/Kg	☼	08/06/18 11:54	08/07/18 22:50	1
PCB-1262	ND		19	13	ug/Kg	☼	08/06/18 11:54	08/07/18 22:50	1
PCB-1268	ND		19	9.1	ug/Kg	☼	08/06/18 11:54	08/07/18 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*08/06/18 11:54*	*08/07/18 22:50*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*08/06/18 11:54*	*08/07/18 22:50*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*08/06/18 11:54*	*08/07/18 22:50*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*08/06/18 11:54*	*08/07/18 22:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**88.3**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: E-S-5-2

Date Collected: 07/26/18 15:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-12

Matrix: Solid
Percent Solids: 82.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/06/18 11:54	08/07/18 22:31	1
PCB-1221	ND		20	13	ug/Kg	☼	08/06/18 11:54	08/07/18 22:31	1
PCB-1232	ND		20	12	ug/Kg	☼	08/06/18 11:54	08/07/18 22:31	1
PCB-1242	ND		20	12	ug/Kg	☼	08/06/18 11:54	08/07/18 22:31	1
PCB-1248	**3600**		20	16	ug/Kg	☼	08/06/18 11:54	08/07/18 22:31	1
PCB-1254	**2000**		20	14	ug/Kg	☼	08/06/18 11:54	08/07/18 22:31	1
PCB-1260	**230**		20	5.6	ug/Kg	☼	08/06/18 11:54	08/07/18 22:31	1
PCB-1262	ND		20	14	ug/Kg	☼	08/06/18 11:54	08/07/18 22:31	1
PCB-1268	ND		20	9.6	ug/Kg	☼	08/06/18 11:54	08/07/18 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*08/06/18 11:54*	*08/07/18 22:31*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*	*08/06/18 11:54*	*08/07/18 22:31*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*08/06/18 11:54*	*08/07/18 22:31*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*08/06/18 11:54*	*08/07/18 22:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.8**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**82.2**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: E-S-4-2

Date Collected: 07/26/18 17:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-13
Matrix: Solid
Percent Solids: 85.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/06/18 11:54	08/07/18 22:11	1
PCB-1221	ND		20	13	ug/Kg	☼	08/06/18 11:54	08/07/18 22:11	1
PCB-1232	ND		20	12	ug/Kg	☼	08/06/18 11:54	08/07/18 22:11	1
PCB-1242	ND		20	12	ug/Kg	☼	08/06/18 11:54	08/07/18 22:11	1
PCB-1248	**770**		20	16	ug/Kg	☼	08/06/18 11:54	08/07/18 22:11	1
PCB-1254	**1400**		20	13	ug/Kg	☼	08/06/18 11:54	08/07/18 22:11	1
PCB-1260	**140**		20	5.6	ug/Kg	☼	08/06/18 11:54	08/07/18 22:11	1
PCB-1262	ND		20	14	ug/Kg	☼	08/06/18 11:54	08/07/18 22:11	1
PCB-1268	ND		20	9.5	ug/Kg	☼	08/06/18 11:54	08/07/18 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*33 - 137*	*08/06/18 11:54*	*08/07/18 22:11*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*08/06/18 11:54*	*08/07/18 22:11*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*08/06/18 11:54*	*08/07/18 22:11*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*44 - 114*	*08/06/18 11:54*	*08/07/18 22:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.8**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**85.2**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: E-S-3-2

Date Collected: 07/26/18 17:15
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-14
Matrix: Solid
Percent Solids: 83.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/07/18 14:11	08/09/18 09:39	1
PCB-1221	ND		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 09:39	1
PCB-1232	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 09:39	1
PCB-1242	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 09:39	1
PCB-1248	**890**		20	16	ug/Kg	☼	08/07/18 14:11	08/09/18 09:39	1
PCB-1254	**360**		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 09:39	1
PCB-1260	**130**		20	5.6	ug/Kg	☼	08/07/18 14:11	08/09/18 09:39	1
PCB-1262	ND		20	14	ug/Kg	☼	08/07/18 14:11	08/09/18 09:39	1
PCB-1268	ND		20	9.5	ug/Kg	☼	08/07/18 14:11	08/09/18 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*08/07/18 14:11*	*08/09/18 09:39*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*08/07/18 14:11*	*08/09/18 09:39*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*08/07/18 14:11*	*08/09/18 09:39*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*08/07/18 14:11*	*08/09/18 09:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.1**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**83.9**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: S-N-4-2

Date Collected: 07/26/18 17:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-15

Matrix: Solid
Percent Solids: 84.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/07/18 14:11	08/09/18 10:00	1
PCB-1221	ND		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 10:00	1
PCB-1232	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 10:00	1
PCB-1242	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 10:00	1
PCB-1248	**460**		20	15	ug/Kg	☼	08/07/18 14:11	08/09/18 10:00	1
PCB-1254	**310**		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 10:00	1
PCB-1260	**130**		20	5.6	ug/Kg	☼	08/07/18 14:11	08/09/18 10:00	1
PCB-1262	ND		20	14	ug/Kg	☼	08/07/18 14:11	08/09/18 10:00	1
PCB-1268	ND		20	9.5	ug/Kg	☼	08/07/18 14:11	08/09/18 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/07/18 14:11*	*08/09/18 10:00*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*08/07/18 14:11*	*08/09/18 10:00*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/07/18 14:11*	*08/09/18 10:00*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*08/07/18 14:11*	*08/09/18 10:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.2**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**84.8**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: S-N-5-1

Date Collected: 07/26/18 17:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-16

Matrix: Solid
Percent Solids: 88.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	08/07/18 14:11	08/09/18 10:22	1
PCB-1221	ND		19	12	ug/Kg	☼	08/07/18 14:11	08/09/18 10:22	1
PCB-1232	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 10:22	1
PCB-1242	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 10:22	1
PCB-1248	**110**		19	15	ug/Kg	☼	08/07/18 14:11	08/09/18 10:22	1
PCB-1254	**59**		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 10:22	1
PCB-1260	**25**		19	5.3	ug/Kg	☼	08/07/18 14:11	08/09/18 10:22	1
PCB-1262	ND		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 10:22	1
PCB-1268	ND		19	9.0	ug/Kg	☼	08/07/18 14:11	08/09/18 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*08/07/18 14:11*	*08/09/18 10:22*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*08/07/18 14:11*	*08/09/18 10:22*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*08/07/18 14:11*	*08/09/18 10:22*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*08/07/18 14:11*	*08/09/18 10:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.8**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**88.2**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: S-N-3-1

Date Collected: 07/26/18 17:20
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-17

Matrix: Solid
Percent Solids: 86.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/07/18 14:11	08/09/18 10:43	1
PCB-1221	ND		19	12	ug/Kg	☼	08/07/18 14:11	08/09/18 10:43	1
PCB-1232	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 10:43	1
PCB-1242	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 10:43	1
PCB-1248	**320**		19	15	ug/Kg	☼	08/07/18 14:11	08/09/18 10:43	1
PCB-1254	**200**		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 10:43	1
PCB-1260	**91**		19	5.4	ug/Kg	☼	08/07/18 14:11	08/09/18 10:43	1
PCB-1262	ND		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 10:43	1
PCB-1268	ND		19	9.3	ug/Kg	☼	08/07/18 14:11	08/09/18 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*08/07/18 14:11*	*08/09/18 10:43*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*08/07/18 14:11*	*08/09/18 10:43*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*	*08/07/18 14:11*	*08/09/18 10:43*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*08/07/18 14:11*	*08/09/18 10:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.0**		0.1	0.1	%			08/02/18 12:39	1
Percent Solids	**86.0**		0.1	0.1	%			08/02/18 12:39	1

Client Sample ID: B-E-1

Date Collected: 07/26/18 16:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-18

Matrix: Solid
Percent Solids: 83.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/07/18 14:11	08/09/18 11:05	1
PCB-1221	ND		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 11:05	1
PCB-1232	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 11:05	1
PCB-1242	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 11:05	1
PCB-1248	**2300**		20	15	ug/Kg	☼	08/07/18 14:11	08/09/18 11:05	1
PCB-1254	**630**		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 11:05	1
PCB-1260	**170**		20	5.6	ug/Kg	☼	08/07/18 14:11	08/09/18 11:05	1
PCB-1262	ND		20	14	ug/Kg	☼	08/07/18 14:11	08/09/18 11:05	1
PCB-1268	ND		20	9.5	ug/Kg	☼	08/07/18 14:11	08/09/18 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*08/07/18 14:11*	*08/09/18 11:05*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/07/18 14:11*	*08/09/18 11:05*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*08/07/18 14:11*	*08/09/18 11:05*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*08/07/18 14:11*	*08/09/18 11:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.9**		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	**83.1**		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: B-E-2

Date Collected: 07/26/18 16:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-19
Matrix: Solid
Percent Solids: 84.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/07/18 14:11	08/09/18 11:27	1
PCB-1221	ND		19	12	ug/Kg	☼	08/07/18 14:11	08/09/18 11:27	1
PCB-1232	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 11:27	1
PCB-1242	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 11:27	1
PCB-1248	**5200**		19	15	ug/Kg	☼	08/07/18 14:11	08/09/18 11:27	1
PCB-1254	**1800**		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 11:27	1
PCB-1260	**510**		19	5.4	ug/Kg	☼	08/07/18 14:11	08/09/18 11:27	1
PCB-1262	ND		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 11:27	1
PCB-1268	ND		19	9.3	ug/Kg	☼	08/07/18 14:11	08/09/18 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*	*08/07/18 14:11*	*08/09/18 11:27*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*08/07/18 14:11*	*08/09/18 11:27*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*08/07/18 14:11*	*08/09/18 11:27*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*08/07/18 14:11*	*08/09/18 11:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.2**		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	**84.8**		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: B-E-3

Date Collected: 07/26/18 16:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-20
Matrix: Solid
Percent Solids: 77.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	08/07/18 14:11	08/09/18 11:45	1
PCB-1221	ND		21	14	ug/Kg	☼	08/07/18 14:11	08/09/18 11:45	1
PCB-1232	ND		21	13	ug/Kg	☼	08/07/18 14:11	08/09/18 11:45	1
PCB-1242	ND		21	13	ug/Kg	☼	08/07/18 14:11	08/09/18 11:45	1
PCB-1248	**660**		21	17	ug/Kg	☼	08/07/18 14:11	08/09/18 11:45	1
PCB-1254	**590**		21	15	ug/Kg	☼	08/07/18 14:11	08/09/18 11:45	1
PCB-1260	**230**		21	6.0	ug/Kg	☼	08/07/18 14:11	08/09/18 11:45	1
PCB-1262	ND		21	15	ug/Kg	☼	08/07/18 14:11	08/09/18 11:45	1
PCB-1268	ND		21	10	ug/Kg	☼	08/07/18 14:11	08/09/18 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*	*08/07/18 14:11*	*08/09/18 11:45*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*08/07/18 14:11*	*08/09/18 11:45*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*08/07/18 14:11*	*08/09/18 11:45*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*08/07/18 14:11*	*08/09/18 11:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.0**		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	**77.0**		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: B-E-5

Date Collected: 07/26/18 16:20
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-22
Matrix: Solid
Percent Solids: 76.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22	7.1	ug/Kg	☼	08/07/18 14:11	08/09/18 12:07	1
PCB-1221	ND		22	14	ug/Kg	☼	08/07/18 14:11	08/09/18 12:07	1
PCB-1232	ND		22	13	ug/Kg	☼	08/07/18 14:11	08/09/18 12:07	1
PCB-1242	ND		22	13	ug/Kg	☼	08/07/18 14:11	08/09/18 12:07	1
PCB-1248	**220**		22	17	ug/Kg	☼	08/07/18 14:11	08/09/18 12:07	1
PCB-1254	**280**		22	15	ug/Kg	☼	08/07/18 14:11	08/09/18 12:07	1
PCB-1260	**130**		22	6.2	ug/Kg	☼	08/07/18 14:11	08/09/18 12:07	1
PCB-1262	ND		22	15	ug/Kg	☼	08/07/18 14:11	08/09/18 12:07	1
PCB-1268	ND		22	11	ug/Kg	☼	08/07/18 14:11	08/09/18 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*08/07/18 14:11*	*08/09/18 12:07*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*08/07/18 14:11*	*08/09/18 12:07*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*08/07/18 14:11*	*08/09/18 12:07*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*08/07/18 14:11*	*08/09/18 12:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.0**		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	**76.0**		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-2-3

Date Collected: 07/26/18 14:40
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-23
Matrix: Solid
Percent Solids: 78.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	08/07/18 14:11	08/09/18 12:29	1
PCB-1221	ND		21	14	ug/Kg	☼	08/07/18 14:11	08/09/18 12:29	1
PCB-1232	ND		21	13	ug/Kg	☼	08/07/18 14:11	08/09/18 12:29	1
PCB-1242	ND		21	13	ug/Kg	☼	08/07/18 14:11	08/09/18 12:29	1
PCB-1248	**3200**		21	17	ug/Kg	☼	08/07/18 14:11	08/09/18 12:29	1
PCB-1254	**1300**		21	14	ug/Kg	☼	08/07/18 14:11	08/09/18 12:29	1
PCB-1260	**390**		21	6.0	ug/Kg	☼	08/07/18 14:11	08/09/18 12:29	1
PCB-1262	ND		21	15	ug/Kg	☼	08/07/18 14:11	08/09/18 12:29	1
PCB-1268	ND		21	10	ug/Kg	☼	08/07/18 14:11	08/09/18 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/07/18 14:11*	*08/09/18 12:29*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*08/07/18 14:11*	*08/09/18 12:29*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*08/07/18 14:11*	*08/09/18 12:29*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*08/07/18 14:11*	*08/09/18 12:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.3**		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	**78.7**		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-3-1

Date Collected: 07/26/18 14:45
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-24

Matrix: Solid
Percent Solids: 74.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22	7.0	ug/Kg	☼	08/07/18 14:11	08/09/18 12:49	1
PCB-1221	ND		22	14	ug/Kg	☼	08/07/18 14:11	08/09/18 12:49	1
PCB-1232	ND		22	13	ug/Kg	☼	08/07/18 14:11	08/09/18 12:49	1
PCB-1242	ND		22	13	ug/Kg	☼	08/07/18 14:11	08/09/18 12:49	1
PCB-1248	**2000**		22	17	ug/Kg	☼	08/07/18 14:11	08/09/18 12:49	1
PCB-1254	**730**		22	15	ug/Kg	☼	08/07/18 14:11	08/09/18 12:49	1
PCB-1260	**150**		22	6.1	ug/Kg	☼	08/07/18 14:11	08/09/18 12:49	1
PCB-1262	ND		22	15	ug/Kg	☼	08/07/18 14:11	08/09/18 12:49	1
PCB-1268	ND		22	10	ug/Kg	☼	08/07/18 14:11	08/09/18 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*33 - 137*	*08/07/18 14:11*	*08/09/18 12:49*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/07/18 14:11*	*08/09/18 12:49*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*44 - 114*	*08/07/18 14:11*	*08/09/18 12:49*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*08/07/18 14:11*	*08/09/18 12:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.2**		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	**74.8**		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-3-2

Date Collected: 07/26/18 14:50
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-25

Matrix: Solid
Percent Solids: 78.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.7	ug/Kg	☼	08/07/18 14:11	08/09/18 13:11	1
PCB-1221	ND		21	13	ug/Kg	☼	08/07/18 14:11	08/09/18 13:11	1
PCB-1232	ND		21	12	ug/Kg	☼	08/07/18 14:11	08/09/18 13:11	1
PCB-1242	ND		21	12	ug/Kg	☼	08/07/18 14:11	08/09/18 13:11	1
PCB-1248	**2900**		21	16	ug/Kg	☼	08/07/18 14:11	08/09/18 13:11	1
PCB-1254	**970**		21	14	ug/Kg	☼	08/07/18 14:11	08/09/18 13:11	1
PCB-1260	**200**		21	5.8	ug/Kg	☼	08/07/18 14:11	08/09/18 13:11	1
PCB-1262	ND		21	14	ug/Kg	☼	08/07/18 14:11	08/09/18 13:11	1
PCB-1268	ND		21	10	ug/Kg	☼	08/07/18 14:11	08/09/18 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*08/07/18 14:11*	*08/09/18 13:11*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*	*08/07/18 14:11*	*08/09/18 13:11*	*1*
Tetrachloro-m-xylene (Surr)	*78*	*p*	*44 - 114*	*08/07/18 14:11*	*08/09/18 13:11*	*1*
Tetrachloro-m-xylene (Surr)	*133*	*X*	*44 - 114*	*08/07/18 14:11*	*08/09/18 13:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.4**		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	**78.6**		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-3-3

Date Collected: 07/26/18 14:55
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-26

Matrix: Solid
Percent Solids: 79.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	08/07/18 14:11	08/09/18 13:32	1
PCB-1221	ND		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 13:32	1
PCB-1232	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 13:32	1
PCB-1242	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 13:32	1
PCB-1248	**1200**		20	16	ug/Kg	☼	08/07/18 14:11	08/09/18 13:32	1
PCB-1254	**530**		20	14	ug/Kg	☼	08/07/18 14:11	08/09/18 13:32	1
PCB-1260	**170**		20	5.8	ug/Kg	☼	08/07/18 14:11	08/09/18 13:32	1
PCB-1262	ND		20	14	ug/Kg	☼	08/07/18 14:11	08/09/18 13:32	1
PCB-1268	ND		20	9.9	ug/Kg	☼	08/07/18 14:11	08/09/18 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*08/07/18 14:11*	*08/09/18 13:32*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*08/07/18 14:11*	*08/09/18 13:32*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*08/07/18 14:11*	*08/09/18 13:32*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*08/07/18 14:11*	*08/09/18 13:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.1**		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	**79.9**		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-3-4

Date Collected: 07/26/18 15:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-27

Matrix: Solid
Percent Solids: 85.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/07/18 14:11	08/09/18 13:54	1
PCB-1221	ND		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 13:54	1
PCB-1232	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 13:54	1
PCB-1242	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 13:54	1
PCB-1248	**320**		20	16	ug/Kg	☼	08/07/18 14:11	08/09/18 13:54	1
PCB-1254	**490**		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 13:54	1
PCB-1260	ND		20	5.6	ug/Kg	☼	08/07/18 14:11	08/09/18 13:54	1
PCB-1262	ND		20	14	ug/Kg	☼	08/07/18 14:11	08/09/18 13:54	1
PCB-1268	ND		20	9.5	ug/Kg	☼	08/07/18 14:11	08/09/18 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*08/07/18 14:11*	*08/09/18 13:54*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*08/07/18 14:11*	*08/09/18 13:54*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*08/07/18 14:11*	*08/09/18 13:54*	*1*
Tetrachloro-m-xylene (Surr)	*63*		*44 - 114*	*08/07/18 14:11*	*08/09/18 13:54*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		25	3.5	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Antimony	ND		1.2	0.42	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Arsenic	**9.8**		1.2	0.34	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Barium	**66**		25	1.3	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Beryllium	**0.59**		0.50	0.028	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Cadmium	**0.050**	**J**	0.62	0.045	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1

Client Sample ID: E-N-3-4

Date Collected: 07/26/18 15:00
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-27

Matrix: Solid
Percent Solids: 85.0

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1300		620	32	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Chromium	16		0.62	0.15	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Cobalt	10		6.2	0.36	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Copper	37		3.1	0.21	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Iron	23000		12	6.3	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Lead	15		1.2	0.31	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Magnesium	3200		620	41	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Manganese	480		1.9	0.20	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Nickel	270		5.0	0.31	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Potassium	1100		620	43	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Selenium	ND		1.2	0.64	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Silver	ND		0.62	0.13	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Sodium	420	J	620	32	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Thallium	ND		2.5	0.26	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Vanadium	18		6.2	0.86	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1
Zinc	59		2.5	1.3	mg/Kg	☼	08/01/18 11:34	08/03/18 07:58	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	J F1	0.042	0.0095	mg/Kg	☼	08/16/18 09:32	08/17/18 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.0		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	85.0		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-4-1

Date Collected: 07/26/18 15:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-28

Matrix: Solid
Percent Solids: 85.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	08/07/18 14:11	08/09/18 14:16	1
PCB-1221	ND		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 14:16	1
PCB-1232	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 14:16	1
PCB-1242	ND		19	12	ug/Kg	☼	08/07/18 14:11	08/09/18 14:16	1
PCB-1248	560		19	15	ug/Kg	☼	08/07/18 14:11	08/09/18 14:16	1
PCB-1254	220		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 14:16	1
PCB-1260	68		19	5.5	ug/Kg	☼	08/07/18 14:11	08/09/18 14:16	1
PCB-1262	ND		19	14	ug/Kg	☼	08/07/18 14:11	08/09/18 14:16	1
PCB-1268	ND		19	9.4	ug/Kg	☼	08/07/18 14:11	08/09/18 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*08/07/18 14:11*	*08/09/18 14:16*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/07/18 14:11*	*08/09/18 14:16*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*08/07/18 14:11*	*08/09/18 14:16*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*08/07/18 14:11*	*08/09/18 14:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.5		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-4-1

Date Collected: 07/26/18 15:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-28

Matrix: Solid
Percent Solids: 85.5

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.5		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-4-2

Date Collected: 07/26/18 15:10
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-29

Matrix: Solid
Percent Solids: 78.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.7	ug/Kg	☼	08/07/18 14:11	08/09/18 14:37	1
PCB-1221	ND		21	13	ug/Kg	☼	08/07/18 14:11	08/09/18 14:37	1
PCB-1232	ND		21	12	ug/Kg	☼	08/07/18 14:11	08/09/18 14:37	1
PCB-1242	ND		21	12	ug/Kg	☼	08/07/18 14:11	08/09/18 14:37	1
PCB-1248	390		21	16	ug/Kg	☼	08/07/18 14:11	08/09/18 14:37	1
PCB-1254	160		21	14	ug/Kg	☼	08/07/18 14:11	08/09/18 14:37	1
PCB-1260	45		21	5.9	ug/Kg	☼	08/07/18 14:11	08/09/18 14:37	1
PCB-1262	ND		21	15	ug/Kg	☼	08/07/18 14:11	08/09/18 14:37	1
PCB-1268	ND		21	10	ug/Kg	☼	08/07/18 14:11	08/09/18 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*	*p*	*33 - 137*	*08/07/18 14:11*	*08/09/18 14:37*	*1*
DCB Decachlorobiphenyl (Surr)	*216*	*X*	*33 - 137*	*08/07/18 14:11*	*08/09/18 14:37*	*1*
Tetrachloro-m-xylene (Surr)	*95*	*p*	*44 - 114*	*08/07/18 14:11*	*08/09/18 14:37*	*1*
Tetrachloro-m-xylene (Surr)	*186*	*X*	*44 - 114*	*08/07/18 14:11*	*08/09/18 14:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.0		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	78.0		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-4-3

Date Collected: 07/26/18 15:15
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-30

Matrix: Solid
Percent Solids: 79.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	08/07/18 14:11	08/09/18 15:43	1
PCB-1221	ND		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 15:43	1
PCB-1232	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 15:43	1
PCB-1242	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 15:43	1
PCB-1248	170		20	16	ug/Kg	☼	08/07/18 14:11	08/09/18 15:43	1
PCB-1254	150		20	14	ug/Kg	☼	08/07/18 14:11	08/09/18 15:43	1
PCB-1260	57		20	5.8	ug/Kg	☼	08/07/18 14:11	08/09/18 15:43	1
PCB-1262	ND		20	14	ug/Kg	☼	08/07/18 14:11	08/09/18 15:43	1
PCB-1268	ND		20	9.9	ug/Kg	☼	08/07/18 14:11	08/09/18 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*08/07/18 14:11*	*08/09/18 15:43*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*08/07/18 14:11*	*08/09/18 15:43*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*08/07/18 14:11*	*08/09/18 15:43*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*08/07/18 14:11*	*08/09/18 15:43*	*1*

Client Sample ID: E-N-4-3 — Lab Sample ID: 180-80274-30

Date Collected: 07/26/18 15:15 — Matrix: Solid
Date Received: 07/31/18 08:50 — Percent Solids: 79.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.4		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	79.6		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: E-N-5-1 — Lab Sample ID: 180-80274-31

Date Collected: 07/26/18 15:25 — Matrix: Solid
Date Received: 07/31/18 08:50 — Percent Solids: 82.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/07/18 14:11	08/09/18 16:05	1
PCB-1221	ND		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 16:05	1
PCB-1232	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 16:05	1
PCB-1242	ND		20	12	ug/Kg	☼	08/07/18 14:11	08/09/18 16:05	1
PCB-1248	1200		20	16	ug/Kg	☼	08/07/18 14:11	08/09/18 16:05	1
PCB-1254	1700		20	13	ug/Kg	☼	08/07/18 14:11	08/09/18 16:05	1
PCB-1260	280		20	5.6	ug/Kg	☼	08/07/18 14:11	08/09/18 16:05	1
PCB-1262	ND		20	14	ug/Kg	☼	08/07/18 14:11	08/09/18 16:05	1
PCB-1268	ND		20	9.5	ug/Kg	☼	08/07/18 14:11	08/09/18 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*08/07/18 14:11*	*08/09/18 16:05*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*08/07/18 14:11*	*08/09/18 16:05*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*08/07/18 14:11*	*08/09/18 16:05*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/07/18 14:11*	*08/09/18 16:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.1		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	82.9		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: B-S-4 — Lab Sample ID: 180-80274-32

Date Collected: 07/26/18 16:30 — Matrix: Solid
Date Received: 07/31/18 08:50 — Percent Solids: 76.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	08/07/18 14:11	08/09/18 16:26	1
PCB-1221	ND		21	14	ug/Kg	☼	08/07/18 14:11	08/09/18 16:26	1
PCB-1232	ND		21	13	ug/Kg	☼	08/07/18 14:11	08/09/18 16:26	1
PCB-1242	ND		21	13	ug/Kg	☼	08/07/18 14:11	08/09/18 16:26	1
PCB-1248	900		21	17	ug/Kg	☼	08/07/18 14:11	08/09/18 16:26	1
PCB-1254	1400		21	15	ug/Kg	☼	08/07/18 14:11	08/09/18 16:26	1
PCB-1260	ND		21	6.0	ug/Kg	☼	08/07/18 14:11	08/09/18 16:26	1
PCB-1262	ND		21	15	ug/Kg	☼	08/07/18 14:11	08/09/18 16:26	1
PCB-1268	ND		21	10	ug/Kg	☼	08/07/18 14:11	08/09/18 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*08/07/18 14:11*	*08/09/18 16:26*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*08/07/18 14:11*	*08/09/18 16:26*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*08/07/18 14:11*	*08/09/18 16:26*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*	*08/07/18 14:11*	*08/09/18 16:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.0		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	76.0		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: DUP-1

Lab Sample ID: 180-80274-34
Date Collected: 07/26/18 00:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 87.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/07/18 14:11	08/09/18 16:48	1
PCB-1221	ND		19	12	ug/Kg	☼	08/07/18 14:11	08/09/18 16:48	1
PCB-1232	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 16:48	1
PCB-1242	ND		19	11	ug/Kg	☼	08/07/18 14:11	08/09/18 16:48	1
PCB-1248	1900		19	15	ug/Kg	☼	08/07/18 14:11	08/09/18 16:48	1
PCB-1254	1100		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 16:48	1
PCB-1260	240		19	5.4	ug/Kg	☼	08/07/18 14:11	08/09/18 16:48	1
PCB-1262	ND		19	13	ug/Kg	☼	08/07/18 14:11	08/09/18 16:48	1
PCB-1268	ND		19	9.2	ug/Kg	☼	08/07/18 14:11	08/09/18 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*08/07/18 14:11*	*08/09/18 16:48*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*08/07/18 14:11*	*08/09/18 16:48*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/07/18 14:11*	*08/09/18 16:48*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*	*08/07/18 14:11*	*08/09/18 16:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		0.1	0.1	%			08/02/18 10:01	1
Percent Solids	87.4		0.1	0.1	%			08/02/18 10:01	1

Client Sample ID: DUP-2

Lab Sample ID: 180-80274-35
Date Collected: 07/26/18 00:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 87.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/08/18 14:53	08/09/18 21:01	1
PCB-1221	ND		19	12	ug/Kg	☼	08/08/18 14:53	08/09/18 21:01	1
PCB-1232	ND		19	11	ug/Kg	☼	08/08/18 14:53	08/09/18 21:01	1
PCB-1242	ND		19	11	ug/Kg	☼	08/08/18 14:53	08/09/18 21:01	1
PCB-1248	1000		19	15	ug/Kg	☼	08/08/18 14:53	08/09/18 21:01	1
PCB-1254	350		19	13	ug/Kg	☼	08/08/18 14:53	08/09/18 21:01	1
PCB-1260	69		19	5.4	ug/Kg	☼	08/08/18 14:53	08/09/18 21:01	1
PCB-1262	ND		19	13	ug/Kg	☼	08/08/18 14:53	08/09/18 21:01	1
PCB-1268	ND		19	9.2	ug/Kg	☼	08/08/18 14:53	08/09/18 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*08/08/18 14:53*	*08/09/18 21:01*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*33 - 137*	*08/08/18 14:53*	*08/09/18 21:01*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/08/18 14:53*	*08/09/18 21:01*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/08/18 14:53*	*08/09/18 21:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.4		0.1	0.1	%			08/02/18 11:39	1

Client Sample ID: DUP-2

Lab Sample ID: 180-80274-35
Date Collected: 07/26/18 00:00
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 87.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**87.6**		0.1	0.1	%			08/02/18 11:39	1

Client Sample ID: G-S-3-4

Lab Sample ID: 180-80274-36
Date Collected: 07/26/18 13:05
Matrix: Solid
Date Received: 07/31/18 08:50
Percent Solids: 83.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/08/18 14:53	08/09/18 21:20	1
PCB-1221	ND		20	13	ug/Kg	☼	08/08/18 14:53	08/09/18 21:20	1
PCB-1232	ND		20	12	ug/Kg	☼	08/08/18 14:53	08/09/18 21:20	1
PCB-1242	ND		20	12	ug/Kg	☼	08/08/18 14:53	08/09/18 21:20	1
PCB-1248	**130**		20	15	ug/Kg	☼	08/08/18 14:53	08/09/18 21:20	1
PCB-1254	**190**		20	13	ug/Kg	☼	08/08/18 14:53	08/09/18 21:20	1
PCB-1260	**52**		20	5.6	ug/Kg	☼	08/08/18 14:53	08/09/18 21:20	1
PCB-1262	ND		20	14	ug/Kg	☼	08/08/18 14:53	08/09/18 21:20	1
PCB-1268	ND		20	9.5	ug/Kg	☼	08/08/18 14:53	08/09/18 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*33 - 137*	*08/08/18 14:53*	*08/09/18 21:20*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*33 - 137*	*08/08/18 14:53*	*08/09/18 21:20*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*08/08/18 14:53*	*08/09/18 21:20*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*08/08/18 14:53*	*08/09/18 21:20*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		24	3.4	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Antimony	ND		1.2	0.41	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Arsenic	**9.2**		1.2	0.33	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Barium	**80**		24	1.3	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Beryllium	**0.59**		0.48	0.027	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Cadmium	**0.061**	**J**	0.60	0.043	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Calcium	**24000**		600	31	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Chromium	**15**		0.60	0.15	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Cobalt	**9.6**		6.0	0.35	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Copper	**38**		3.0	0.20	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Iron	**23000**		12	6.0	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Lead	**14**		1.2	0.29	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Magnesium	**3600**		600	39	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Manganese	**650**		1.8	0.19	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Nickel	**41**		4.8	0.30	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Potassium	**1000**		600	42	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Selenium	ND		1.2	0.62	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Silver	ND		0.60	0.13	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Sodium	**500**	**J**	600	31	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Thallium	ND		2.4	0.25	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Vanadium	**18**		6.0	0.83	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1
Zinc	**56**		2.4	1.3	mg/Kg	☼	08/01/18 11:34	08/03/18 08:03	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80274-1

Client Sample ID: G-S-3-4
Date Collected: 07/26/18 13:05
Date Received: 07/31/18 08:50

Lab Sample ID: 180-80274-36
Matrix: Solid
Percent Solids: 83.0

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.038	0.0085	mg/Kg	☼	08/16/18 09:32	08/17/18 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.0		0.1	0.1	%			08/02/18 11:39	1
Percent Solids	83.0		0.1	0.1	%			08/02/18 11:39	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-252912/1-C
Matrix: Solid
Analysis Batch: 253033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/06/18 11:54	08/07/18 15:37	1
PCB-1221	ND		17	11	ug/Kg		08/06/18 11:54	08/07/18 15:37	1
PCB-1232	ND		17	9.9	ug/Kg		08/06/18 11:54	08/07/18 15:37	1
PCB-1242	ND		17	10	ug/Kg		08/06/18 11:54	08/07/18 15:37	1
PCB-1248	ND		17	13	ug/Kg		08/06/18 11:54	08/07/18 15:37	1
PCB-1254	ND		17	11	ug/Kg		08/06/18 11:54	08/07/18 15:37	1
PCB-1260	ND		17	4.7	ug/Kg		08/06/18 11:54	08/07/18 15:37	1
PCB-1262	ND		17	12	ug/Kg		08/06/18 11:54	08/07/18 15:37	1
PCB-1268	ND		17	8.1	ug/Kg		08/06/18 11:54	08/07/18 15:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/06/18 11:54*	*08/07/18 15:37*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*08/06/18 11:54*	*08/07/18 15:37*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*	*08/06/18 11:54*	*08/07/18 15:37*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*08/06/18 11:54*	*08/07/18 15:37*	*1*

Lab Sample ID: LCS 180-252912/2-C
Matrix: Solid
Analysis Batch: 253033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252912

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1190		ug/Kg		89	46 - 122		
PCB-1260			1330	1120		ug/Kg		84	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*

Lab Sample ID: 180-80274-1 MS
Matrix: Solid
Analysis Batch: 253105

Client Sample ID: G-S-2-1
Prep Type: Total/NA
Prep Batch: 252912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND	F1 F2	1570	12300	F1	ug/Kg	☼	788	46 - 122		
PCB-1260	1000		1570	2080		ug/Kg	☼	67	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-80274-1 MSD
Matrix: Solid
Analysis Batch: 253105

Client Sample ID: G-S-2-1
Prep Type: Total/NA
Prep Batch: 252912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1 F2	1560	16500	F1 F2	ug/Kg	☼	1058	46 - 122	29	23
PCB-1260	1000		1560	1940		ug/Kg	☼	59	51 - 119	7	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*

Lab Sample ID: MB 180-253064/1-C
Matrix: Solid
Analysis Batch: 253213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253064

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/07/18 14:11	08/09/18 08:13	1
PCB-1221	ND		17	11	ug/Kg		08/07/18 14:11	08/09/18 08:13	1
PCB-1232	ND		17	9.9	ug/Kg		08/07/18 14:11	08/09/18 08:13	1
PCB-1242	ND		17	10	ug/Kg		08/07/18 14:11	08/09/18 08:13	1
PCB-1248	ND		17	13	ug/Kg		08/07/18 14:11	08/09/18 08:13	1
PCB-1254	ND		17	11	ug/Kg		08/07/18 14:11	08/09/18 08:13	1
PCB-1260	ND		17	4.7	ug/Kg		08/07/18 14:11	08/09/18 08:13	1
PCB-1262	ND		17	12	ug/Kg		08/07/18 14:11	08/09/18 08:13	1
PCB-1268	ND		17	8.1	ug/Kg		08/07/18 14:11	08/09/18 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*101*		*33 - 137*	*08/07/18 14:11*	*08/09/18 08:13*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*33 - 137*	*08/07/18 14:11*	*08/09/18 08:13*	*1*
Tetrachloro-m-xylene (Surr)	*103*		*44 - 114*	*08/07/18 14:11*	*08/09/18 08:13*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*44 - 114*	*08/07/18 14:11*	*08/09/18 08:13*	*1*

Lab Sample ID: LCS 180-253064/2-C
Matrix: Solid
Analysis Batch: 253213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253064

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1470		ug/Kg		110	46 - 122		
PCB-1260			1330	1060		ug/Kg		80	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*105*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*106*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-80274-5 MS
Matrix: Solid
Analysis Batch: 253213

Client Sample ID: G-S-3-2
Prep Type: Total/NA
Prep Batch: 253064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1560	1500		ug/Kg	☼	96	46 - 122
PCB-1260	85		1560	1130		ug/Kg	☼	67	51 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*106*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*84*	*p*	*44 - 114*
Tetrachloro-m-xylene (Surr)	*156*	*X*	*44 - 114*

Lab Sample ID: 180-80274-5 MSD
Matrix: Solid
Analysis Batch: 253213

Client Sample ID: G-S-3-2
Prep Type: Total/NA
Prep Batch: 253064

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1570	1370		ug/Kg	☼	87	46 - 122	10	23
PCB-1260	85		1570	1040		ug/Kg	☼	61	51 - 119	9	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*102*		*44 - 114*

Lab Sample ID: MB 180-253190/1-C
Matrix: Solid
Analysis Batch: 253212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/08/18 14:53	08/09/18 13:51	1
PCB-1221	ND		17	11	ug/Kg		08/08/18 14:53	08/09/18 13:51	1
PCB-1232	ND		17	9.9	ug/Kg		08/08/18 14:53	08/09/18 13:51	1
PCB-1242	ND		17	10	ug/Kg		08/08/18 14:53	08/09/18 13:51	1
PCB-1248	ND		17	13	ug/Kg		08/08/18 14:53	08/09/18 13:51	1
PCB-1254	ND		17	11	ug/Kg		08/08/18 14:53	08/09/18 13:51	1
PCB-1260	ND		17	4.7	ug/Kg		08/08/18 14:53	08/09/18 13:51	1
PCB-1262	ND		17	12	ug/Kg		08/08/18 14:53	08/09/18 13:51	1
PCB-1268	ND		17	8.1	ug/Kg		08/08/18 14:53	08/09/18 13:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*110*		*33 - 137*	*08/08/18 14:53*	*08/09/18 13:51*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*33 - 137*	*08/08/18 14:53*	*08/09/18 13:51*	*1*
Tetrachloro-m-xylene (Surr)	*101*		*44 - 114*	*08/08/18 14:53*	*08/09/18 13:51*	*1*
Tetrachloro-m-xylene (Surr)	*109*		*44 - 114*	*08/08/18 14:53*	*08/09/18 13:51*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 180-253190/2-C
Matrix: Solid
Analysis Batch: 253212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1330	1250		ug/Kg		94	46 - 122
PCB-1260	1330	1120		ug/Kg		84	51 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*

Method: EPA 6010C - Metals (ICP)

Lab Sample ID: MB 180-252457/1-A
Matrix: Solid
Analysis Batch: 252706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	2.8	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Antimony	ND		1.0	0.34	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Arsenic	ND		1.0	0.28	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Barium	ND		20	1.1	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Beryllium	ND		0.40	0.023	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Cadmium	ND		0.50	0.036	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Calcium	ND		500	26	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Chromium	ND		0.50	0.12	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Cobalt	ND		5.0	0.29	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Copper	ND		2.5	0.17	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Iron	ND		10	5.1	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Lead	ND		1.0	0.25	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Magnesium	ND		500	33	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Manganese	ND		1.5	0.16	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Nickel	ND		4.0	0.25	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Potassium	ND		500	35	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Selenium	ND		1.0	0.52	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Silver	ND		0.50	0.11	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Sodium	ND		500	26	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Thallium	ND		2.0	0.21	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Vanadium	ND		5.0	0.70	mg/Kg		08/01/18 11:34	08/03/18 06:54	1
Zinc	ND		2.0	1.1	mg/Kg		08/01/18 11:34	08/03/18 06:54	1

Lab Sample ID: LCS 180-252457/2-A
Matrix: Solid
Analysis Batch: 252706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	198		mg/Kg		99	80 - 120
Antimony	50.0	49.2		mg/Kg		98	80 - 120
Arsenic	50.0	48.1		mg/Kg		96	80 - 120
Barium	200	203		mg/Kg		102	80 - 120

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-252457/2-A
Matrix: Solid
Analysis Batch: 252706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	5.00	5.04		mg/Kg		101	80 - 120
Cadmium	5.00	5.03		mg/Kg		101	80 - 120
Calcium	5000	4940		mg/Kg		99	80 - 120
Chromium	20.0	18.7		mg/Kg		94	80 - 120
Cobalt	50.0	48.1		mg/Kg		96	80 - 120
Copper	25.0	25.4		mg/Kg		102	80 - 120
Iron	100	98.2		mg/Kg		98	80 - 120
Lead	50.0	45.6		mg/Kg		91	80 - 120
Magnesium	5000	4820		mg/Kg		96	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Potassium	5000	4690		mg/Kg		94	80 - 120
Selenium	50.0	50.1		mg/Kg		100	80 - 120
Silver	5.00	5.02		mg/Kg		100	80 - 120
Sodium	5000	4830		mg/Kg		97	80 - 120
Thallium	50.0	45.2		mg/Kg		90	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-254072/1-A
Matrix: Solid
Analysis Batch: 254261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 254072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.032	0.0073	mg/Kg		08/16/18 09:32	08/17/18 09:45	1

Lab Sample ID: LCS 180-254072/2-A
Matrix: Solid
Analysis Batch: 254261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 254072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.486		mg/Kg		117	80 - 120

Lab Sample ID: 180-80274-27 MS
Matrix: Solid
Analysis Batch: 254261

Client Sample ID: E-N-3-4
Prep Type: Total/NA
Prep Batch: 254072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.020	J F1	0.193	0.260	F1	mg/Kg	☼	125	80 - 120

Lab Sample ID: 180-80274-27 MSD
Matrix: Solid
Analysis Batch: 254261

Client Sample ID: E-N-3-4
Prep Type: Total/NA
Prep Batch: 254072

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.020	J F1	0.199	0.261	F1	mg/Kg	☼	121	80 - 120	1	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-80274-34 DU
Matrix: Solid
Analysis Batch: 252582

Client Sample ID: DUP-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.6			14.7		%				15	20
Percent Solids	87.4			85.3		%				2	20

Lab Sample ID: 180-80274-35 DU
Matrix: Solid
Analysis Batch: 252606

Client Sample ID: DUP-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.4			13.0		%				5	20
Percent Solids	87.6			87.0		%				0.7	20

Lab Sample ID: 180-80274-17 DU
Matrix: Solid
Analysis Batch: 252614

Client Sample ID: S-N-3-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.0			11.4		%				20	20
Percent Solids	86.0			88.6		%				3	20

GC Semi VOA

Prep Batch: 252912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-1	G-S-2-1	Total/NA	Solid	3541	
180-80274-2	G-S-2-2	Total/NA	Solid	3541	
180-80274-3	G-S-2-3	Total/NA	Solid	3541	
180-80274-4	G-S-3-1	Total/NA	Solid	3541	
180-80274-6	G-S-3-3	Total/NA	Solid	3541	
180-80274-7	G-S-4-1	Total/NA	Solid	3541	
180-80274-8	G-S-4-2	Total/NA	Solid	3541	
180-80274-9	G-S-4-3	Total/NA	Solid	3541	
180-80274-10	E-N-1-1	Total/NA	Solid	3541	
180-80274-11	E-N-2-1	Total/NA	Solid	3541	
180-80274-12	E-S-5-2	Total/NA	Solid	3541	
180-80274-13	E-S-4-2	Total/NA	Solid	3541	
MB 180-252912/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-252912/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-80274-1 MS	G-S-2-1	Total/NA	Solid	3541	
180-80274-1 MSD	G-S-2-1	Total/NA	Solid	3541	

Analysis Batch: 253033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-2	G-S-2-2	Total/NA	Solid	EPA 8082A	253053
180-80274-3	G-S-2-3	Total/NA	Solid	EPA 8082A	253053
180-80274-4	G-S-3-1	Total/NA	Solid	EPA 8082A	253053
180-80274-6	G-S-3-3	Total/NA	Solid	EPA 8082A	253053
180-80274-7	G-S-4-1	Total/NA	Solid	EPA 8082A	253053
180-80274-8	G-S-4-2	Total/NA	Solid	EPA 8082A	253053
180-80274-9	G-S-4-3	Total/NA	Solid	EPA 8082A	253053
180-80274-10	E-N-1-1	Total/NA	Solid	EPA 8082A	253053
180-80274-11	E-N-2-1	Total/NA	Solid	EPA 8082A	253053
180-80274-12	E-S-5-2	Total/NA	Solid	EPA 8082A	253053
180-80274-13	E-S-4-2	Total/NA	Solid	EPA 8082A	253053
MB 180-252912/1-C	Method Blank	Total/NA	Solid	EPA 8082A	253053
LCS 180-252912/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	253053

Cleanup Batch: 253052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-1	G-S-2-1	Total/NA	Solid	3665A	252912
180-80274-2	G-S-2-2	Total/NA	Solid	3665A	252912
180-80274-3	G-S-2-3	Total/NA	Solid	3665A	252912
180-80274-4	G-S-3-1	Total/NA	Solid	3665A	252912
180-80274-6	G-S-3-3	Total/NA	Solid	3665A	252912
180-80274-7	G-S-4-1	Total/NA	Solid	3665A	252912
180-80274-8	G-S-4-2	Total/NA	Solid	3665A	252912
180-80274-9	G-S-4-3	Total/NA	Solid	3665A	252912
180-80274-10	E-N-1-1	Total/NA	Solid	3665A	252912
180-80274-11	E-N-2-1	Total/NA	Solid	3665A	252912
180-80274-12	E-S-5-2	Total/NA	Solid	3665A	252912
180-80274-13	E-S-4-2	Total/NA	Solid	3665A	252912
MB 180-252912/1-C	Method Blank	Total/NA	Solid	3665A	252912
LCS 180-252912/2-C	Lab Control Sample	Total/NA	Solid	3665A	252912
180-80274-1 MS	G-S-2-1	Total/NA	Solid	3665A	252912
180-80274-1 MSD	G-S-2-1	Total/NA	Solid	3665A	252912

Cleanup Batch: 253053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-1	G-S-2-1	Total/NA	Solid	3660B	253052
180-80274-2	G-S-2-2	Total/NA	Solid	3660B	253052
180-80274-3	G-S-2-3	Total/NA	Solid	3660B	253052
180-80274-4	G-S-3-1	Total/NA	Solid	3660B	253052
180-80274-6	G-S-3-3	Total/NA	Solid	3660B	253052
180-80274-7	G-S-4-1	Total/NA	Solid	3660B	253052
180-80274-8	G-S-4-2	Total/NA	Solid	3660B	253052
180-80274-9	G-S-4-3	Total/NA	Solid	3660B	253052
180-80274-10	E-N-1-1	Total/NA	Solid	3660B	253052
180-80274-11	E-N-2-1	Total/NA	Solid	3660B	253052
180-80274-12	E-S-5-2	Total/NA	Solid	3660B	253052
180-80274-13	E-S-4-2	Total/NA	Solid	3660B	253052
MB 180-252912/1-C	Method Blank	Total/NA	Solid	3660B	253052
LCS 180-252912/2-C	Lab Control Sample	Total/NA	Solid	3660B	253052
180-80274-1 MS	G-S-2-1	Total/NA	Solid	3660B	253052
180-80274-1 MSD	G-S-2-1	Total/NA	Solid	3660B	253052

Prep Batch: 253064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-5	G-S-3-2	Total/NA	Solid	3541	
180-80274-14	E-S-3-2	Total/NA	Solid	3541	
180-80274-15	S-N-4-2	Total/NA	Solid	3541	
180-80274-16	S-N-5-1	Total/NA	Solid	3541	
180-80274-17	S-N-3-1	Total/NA	Solid	3541	
180-80274-18	B-E-1	Total/NA	Solid	3541	
180-80274-19	B-E-2	Total/NA	Solid	3541	
180-80274-20	B-E-3	Total/NA	Solid	3541	
180-80274-22	B-E-5	Total/NA	Solid	3541	
180-80274-23	E-N-2-3	Total/NA	Solid	3541	
180-80274-24	E-N-3-1	Total/NA	Solid	3541	
180-80274-25	E-N-3-2	Total/NA	Solid	3541	
180-80274-26	E-N-3-3	Total/NA	Solid	3541	
180-80274-27	E-N-3-4	Total/NA	Solid	3541	
180-80274-28	E-N-4-1	Total/NA	Solid	3541	
180-80274-29	E-N-4-2	Total/NA	Solid	3541	
180-80274-30	E-N-4-3	Total/NA	Solid	3541	
180-80274-31	E-N-5-1	Total/NA	Solid	3541	
180-80274-32	B-S-4	Total/NA	Solid	3541	
180-80274-34	DUP-1	Total/NA	Solid	3541	
MB 180-253064/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-253064/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-80274-5 MS	G-S-3-2	Total/NA	Solid	3541	
180-80274-5 MSD	G-S-3-2	Total/NA	Solid	3541	

Analysis Batch: 253105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-1	G-S-2-1	Total/NA	Solid	EPA 8082A	253053
180-80274-1 MS	G-S-2-1	Total/NA	Solid	EPA 8082A	253053
180-80274-1 MSD	G-S-2-1	Total/NA	Solid	EPA 8082A	253053

Cleanup Batch: 253152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-5	G-S-3-2	Total/NA	Solid	3665A	253064

GC Semi VOA (Continued)

Cleanup Batch: 253152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-14	E-S-3-2	Total/NA	Solid	3665A	253064
180-80274-15	S-N-4-2	Total/NA	Solid	3665A	253064
180-80274-16	S-N-5-1	Total/NA	Solid	3665A	253064
180-80274-17	S-N-3-1	Total/NA	Solid	3665A	253064
180-80274-18	B-E-1	Total/NA	Solid	3665A	253064
180-80274-19	B-E-2	Total/NA	Solid	3665A	253064
180-80274-20	B-E-3	Total/NA	Solid	3665A	253064
180-80274-22	B-E-5	Total/NA	Solid	3665A	253064
180-80274-23	E-N-2-3	Total/NA	Solid	3665A	253064
180-80274-24	E-N-3-1	Total/NA	Solid	3665A	253064
180-80274-25	E-N-3-2	Total/NA	Solid	3665A	253064
180-80274-26	E-N-3-3	Total/NA	Solid	3665A	253064
180-80274-27	E-N-3-4	Total/NA	Solid	3665A	253064
180-80274-28	E-N-4-1	Total/NA	Solid	3665A	253064
180-80274-29	E-N-4-2	Total/NA	Solid	3665A	253064
180-80274-30	E-N-4-3	Total/NA	Solid	3665A	253064
180-80274-31	E-N-5-1	Total/NA	Solid	3665A	253064
180-80274-32	B-S-4	Total/NA	Solid	3665A	253064
180-80274-34	DUP-1	Total/NA	Solid	3665A	253064
MB 180-253064/1-C	Method Blank	Total/NA	Solid	3665A	253064
LCS 180-253064/2-C	Lab Control Sample	Total/NA	Solid	3665A	253064
180-80274-5 MS	G-S-3-2	Total/NA	Solid	3665A	253064
180-80274-5 MSD	G-S-3-2	Total/NA	Solid	3665A	253064

Cleanup Batch: 253154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-5	G-S-3-2	Total/NA	Solid	3660B	253152
180-80274-14	E-S-3-2	Total/NA	Solid	3660B	253152
180-80274-15	S-N-4-2	Total/NA	Solid	3660B	253152
180-80274-16	S-N-5-1	Total/NA	Solid	3660B	253152
180-80274-17	S-N-3-1	Total/NA	Solid	3660B	253152
180-80274-18	B-E-1	Total/NA	Solid	3660B	253152
180-80274-19	B-E-2	Total/NA	Solid	3660B	253152
180-80274-20	B-E-3	Total/NA	Solid	3660B	253152
180-80274-22	B-E-5	Total/NA	Solid	3660B	253152
180-80274-23	E-N-2-3	Total/NA	Solid	3660B	253152
180-80274-24	E-N-3-1	Total/NA	Solid	3660B	253152
180-80274-25	E-N-3-2	Total/NA	Solid	3660B	253152
180-80274-26	E-N-3-3	Total/NA	Solid	3660B	253152
180-80274-27	E-N-3-4	Total/NA	Solid	3660B	253152
180-80274-28	E-N-4-1	Total/NA	Solid	3660B	253152
180-80274-29	E-N-4-2	Total/NA	Solid	3660B	253152
180-80274-30	E-N-4-3	Total/NA	Solid	3660B	253152
180-80274-31	E-N-5-1	Total/NA	Solid	3660B	253152
180-80274-32	B-S-4	Total/NA	Solid	3660B	253152
180-80274-34	DUP-1	Total/NA	Solid	3660B	253152
MB 180-253064/1-C	Method Blank	Total/NA	Solid	3660B	253152
LCS 180-253064/2-C	Lab Control Sample	Total/NA	Solid	3660B	253152
180-80274-5 MS	G-S-3-2	Total/NA	Solid	3660B	253152
180-80274-5 MSD	G-S-3-2	Total/NA	Solid	3660B	253152

GC Semi VOA (Continued)

Prep Batch: 253190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-35	DUP-2	Total/NA	Solid	3541	
180-80274-36	G-S-3-4	Total/NA	Solid	3541	
MB 180-253190/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-253190/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 253212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-35	DUP-2	Total/NA	Solid	EPA 8082A	253251
180-80274-36	G-S-3-4	Total/NA	Solid	EPA 8082A	253251
MB 180-253190/1-C	Method Blank	Total/NA	Solid	EPA 8082A	253251
LCS 180-253190/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	253251

Analysis Batch: 253213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-5	G-S-3-2	Total/NA	Solid	EPA 8082A	253154
180-80274-14	E-S-3-2	Total/NA	Solid	EPA 8082A	253154
180-80274-15	S-N-4-2	Total/NA	Solid	EPA 8082A	253154
180-80274-16	S-N-5-1	Total/NA	Solid	EPA 8082A	253154
180-80274-17	S-N-3-1	Total/NA	Solid	EPA 8082A	253154
180-80274-18	B-E-1	Total/NA	Solid	EPA 8082A	253154
180-80274-19	B-E-2	Total/NA	Solid	EPA 8082A	253154
180-80274-20	B-E-3	Total/NA	Solid	EPA 8082A	253154
180-80274-22	B-E-5	Total/NA	Solid	EPA 8082A	253154
180-80274-23	E-N-2-3	Total/NA	Solid	EPA 8082A	253154
180-80274-24	E-N-3-1	Total/NA	Solid	EPA 8082A	253154
180-80274-25	E-N-3-2	Total/NA	Solid	EPA 8082A	253154
180-80274-26	E-N-3-3	Total/NA	Solid	EPA 8082A	253154
180-80274-27	E-N-3-4	Total/NA	Solid	EPA 8082A	253154
180-80274-28	E-N-4-1	Total/NA	Solid	EPA 8082A	253154
180-80274-29	E-N-4-2	Total/NA	Solid	EPA 8082A	253154
180-80274-30	E-N-4-3	Total/NA	Solid	EPA 8082A	253154
180-80274-31	E-N-5-1	Total/NA	Solid	EPA 8082A	253154
180-80274-32	B-S-4	Total/NA	Solid	EPA 8082A	253154
180-80274-34	DUP-1	Total/NA	Solid	EPA 8082A	253154
MB 180-253064/1-C	Method Blank	Total/NA	Solid	EPA 8082A	253154
LCS 180-253064/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	253154
180-80274-5 MS	G-S-3-2	Total/NA	Solid	EPA 8082A	253154
180-80274-5 MSD	G-S-3-2	Total/NA	Solid	EPA 8082A	253154

Cleanup Batch: 253250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-35	DUP-2	Total/NA	Solid	3665A	253190
180-80274-36	G-S-3-4	Total/NA	Solid	3665A	253190
MB 180-253190/1-C	Method Blank	Total/NA	Solid	3665A	253190
LCS 180-253190/2-C	Lab Control Sample	Total/NA	Solid	3665A	253190

Cleanup Batch: 253251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-35	DUP-2	Total/NA	Solid	3660B	253250
180-80274-36	G-S-3-4	Total/NA	Solid	3660B	253250
MB 180-253190/1-C	Method Blank	Total/NA	Solid	3660B	253250

GC Semi VOA (Continued)

Cleanup Batch: 253251 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-253190/2-C	Lab Control Sample	Total/NA	Solid	3660B	253250

Metals

Prep Batch: 252457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-27	E-N-3-4	Total/NA	Solid	3050B	
180-80274-36	G-S-3-4	Total/NA	Solid	3050B	
MB 180-252457/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-252457/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 252706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-27	E-N-3-4	Total/NA	Solid	EPA 6010C	252457
180-80274-36	G-S-3-4	Total/NA	Solid	EPA 6010C	252457
MB 180-252457/1-A	Method Blank	Total/NA	Solid	EPA 6010C	252457
LCS 180-252457/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010C	252457

Prep Batch: 254072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-27	E-N-3-4	Total/NA	Solid	7471B	
180-80274-36	G-S-3-4	Total/NA	Solid	7471B	
MB 180-254072/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-254072/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-80274-27 MS	E-N-3-4	Total/NA	Solid	7471B	
180-80274-27 MSD	E-N-3-4	Total/NA	Solid	7471B	

Analysis Batch: 254261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-27	E-N-3-4	Total/NA	Solid	EPA 7471B	254072
180-80274-36	G-S-3-4	Total/NA	Solid	EPA 7471B	254072
MB 180-254072/1-A	Method Blank	Total/NA	Solid	EPA 7471B	254072
LCS 180-254072/2-A	Lab Control Sample	Total/NA	Solid	EPA 7471B	254072
180-80274-27 MS	E-N-3-4	Total/NA	Solid	EPA 7471B	254072
180-80274-27 MSD	E-N-3-4	Total/NA	Solid	EPA 7471B	254072

General Chemistry

Analysis Batch: 252582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-18	B-E-1	Total/NA	Solid	2540G	
180-80274-19	B-E-2	Total/NA	Solid	2540G	
180-80274-20	B-E-3	Total/NA	Solid	2540G	
180-80274-22	B-E-5	Total/NA	Solid	2540G	
180-80274-23	E-N-2-3	Total/NA	Solid	2540G	
180-80274-24	E-N-3-1	Total/NA	Solid	2540G	
180-80274-25	E-N-3-2	Total/NA	Solid	2540G	
180-80274-26	E-N-3-3	Total/NA	Solid	2540G	
180-80274-27	E-N-3-4	Total/NA	Solid	2540G	
180-80274-28	E-N-4-1	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 252582 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-29	E-N-4-2	Total/NA	Solid	2540G	
180-80274-30	E-N-4-3	Total/NA	Solid	2540G	
180-80274-31	E-N-5-1	Total/NA	Solid	2540G	
180-80274-32	B-S-4	Total/NA	Solid	2540G	
180-80274-34	DUP-1	Total/NA	Solid	2540G	
180-80274-34 DU	DUP-1	Total/NA	Solid	2540G	

Analysis Batch: 252606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-35	DUP-2	Total/NA	Solid	2540G	
180-80274-36	G-S-3-4	Total/NA	Solid	2540G	
180-80274-35 DU	DUP-2	Total/NA	Solid	2540G	

Analysis Batch: 252614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80274-1	G-S-2-1	Total/NA	Solid	2540G	
180-80274-2	G-S-2-2	Total/NA	Solid	2540G	
180-80274-3	G-S-2-3	Total/NA	Solid	2540G	
180-80274-4	G-S-3-1	Total/NA	Solid	2540G	
180-80274-5	G-S-3-2	Total/NA	Solid	2540G	
180-80274-6	G-S-3-3	Total/NA	Solid	2540G	
180-80274-7	G-S-4-1	Total/NA	Solid	2540G	
180-80274-8	G-S-4-2	Total/NA	Solid	2540G	
180-80274-9	G-S-4-3	Total/NA	Solid	2540G	
180-80274-10	E-N-1-1	Total/NA	Solid	2540G	
180-80274-11	E-N-2-1	Total/NA	Solid	2540G	
180-80274-12	E-S-5-2	Total/NA	Solid	2540G	
180-80274-13	E-S-4-2	Total/NA	Solid	2540G	
180-80274-14	E-S-3-2	Total/NA	Solid	2540G	
180-80274-15	S-N-4-2	Total/NA	Solid	2540G	
180-80274-16	S-N-5-1	Total/NA	Solid	2540G	
180-80274-17	S-N-3-1	Total/NA	Solid	2540G	
180-80274-17 DU	S-N-3-1	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Aron Krasnopoler
Company: Geosyntec Consultants, Inc.
Address: 10211 Wincopin Circle, Floor 4
City: Columbia, MD
State, Zip: MD, 21044
Phone: (202) 550-7724
Email: akrasnopoler@geosyntec.com
Project Name: Former Sperry Remington Site - North IRM
Site: ELTS

Sampler: Ashwin Ranna; George Wagner; Lauren Ruickel
Phone: 4125524758
Lab PM: Dunlap, David A
E-Mail: david.dunlap@testamericainc.com
Carrier Tracking No(s):
COC No: Utility 7/26
Page: Page 1 of 4
Job #:

Due Date Requested:
TAT Requested (days): Standard
PO #: MN0832D
WO #:
Project #:
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
G-S-1-1 2-1	7/26/18	1225	C	Solid	N	N	X	2	* Also rec MS/MSD bottles 7/27/18
G-S-2-2		1230		Solid	N	N	X	2	
G-S-2-3		1235		Solid	N	N	X	2	
G-S-3-1		1250		Solid	N	N	X	2	
G-S-3-2		1255		Solid	N	Y	X	4	Perform MS/MSD
G-S-3-3		1300		Solid	N	N	X	2	
G-S-4-1		1315		Solid	N	N	X	2	
G-S-4-2		1320		Solid	N	N	X	2	
G-S-4-3		1325		Solid	N	N	X	2	
E-N-1-1		1400		Solid	N	N	X	2	
E-N-2-1		1430		Solid	N	N	X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Handed over to Fedex @ 1830 by Ashwin Ranna of Geosyntec on 7/30/2018
Ashwin

Rec: TA Pitt 7/31/18 SSV

180-80274 Chain of Custody

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna, George Wanjiru, Lauren Quichel	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: Utility 7/26
Client Contact: Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days): Standard			
State, Zip: MD, 21044	PO #: MN0832D			
Phone: (202) 550-7724	WO #:			
Email: akrasnopoler@geosyntec.com	Project #:			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site: EHS				

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
E-S-5-2	7/26/18	1550	C	Solid	N	N	X		
E-S-4-2		1705		Solid	N	N	X		
E-S-3-2		1715		Solid	N	N	X		
S-N-4-2		1700		Solid	N	N	X		
S-N-5-1		1710		Solid	N	N	X		
S-N-3-1		1720		Solid	N	N	X		
B-E-1		1600		Solid	N	N	X		
B-E-2		1605		Solid	N	N	X		
B-E-3		1610		Solid	N	N	X		
B-E-4 X Not Relieved by 7/31/18		1615		Solid	N	N	X	1	
B-E-5		1620		Solid	N	N	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Handed over to Feder @ 1830 by Ashwin Ranna of Geosyntec on 7/30/2018

Ashwin

Rec'd TA Pitt 7/31/18 850

8/21/2018

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Lauren Quickel; Ashwin Ranna; George Wanjiru	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: Utility 7/26
Client Contact: Aron Krasnopoler	Phone: 412 5524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days): Standard			
State, Zip: MD, 21044				
Phone: (202) 550-7724	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #:			
Site: EHS	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
E-N-2-3	7/26/18	1440	C	Solid	N	N	X			
E-N-3-1		1445		Solid	N	N	X			
E-N-3-2		1450		Solid	N	N	X			
E-N-3-3		1455		Solid	N	N	X			
E-N-3-4		1500		Solid	N	N	X	X		
E-N-4-1		1505		Solid	N	N	X			
E-N-4-2		1510		Solid	N	N	X			
E-N-4-3		1515		Solid	N	N	X			
~~E-N-4-4~~ AR				~~Solid~~	~~N~~					
E-N-5-1		1525		Solid	N	N	X			
~~E-N-5-2~~ AR				~~Solid~~	~~N~~					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Handed over to Fedex @ 1830 by Ashwin

Rec: [signature] TA Pitt 7/31/18 850

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Aron Krasnopoler
Company: Geosyntec Consultants, Inc.
Address: 10211 Wincopin Circle, Floor 4
City: Columbia, MD
State, Zip: MD, 21044
Phone: (202) 550-7724
Email: akrasnopoler@geosyntec.com
Project Name: Former Sperry Remington Site - North IRM
Site:

Sampler: Ashwin Ranna; George Wanjeru; Lauren Quick
Phone:
Due Date Requested:
TAT Requested (days): Standard
PO #: MN0832D
WO #:
Project #:
SSOW#:

Lab PM: Dunlap, David A
E-Mail: david.dunlap@testamericainc.com
Carrier Tracking No(s):

COC No: Utility 7/26
Page: Page 9 of 40
Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	Metals TAL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
B-S-4	7/26/18	1630	C	Solid	N	N	X		2	
B-S-5 * NOT Received 8/2/18		1635	C	Solid	N	N	X		2	
DUP-1		—	C	Solid	N	N	X		2	
DUP-2 (MS)		—	C	Solid	N	N	X		2	
~~DUP-3 (MS)~~		—	C	Solid	N	N	X			Do not collect
G-S-3-4	7/26/18	1305	C	Solid	N	N	X	X	2	
~~SN-1, (MS)~~				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Handed over to Fedex @ 1830 by Ashwin Ranna of Geosyntec on 7/30/2018
Ashwin

Rec'd 7/31/18 &SO
TA Nitt

8/21/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80274-1

Login Number: 80274
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	B-E-4 and B-S-5 not rec. rec. ms/msd for G-S-2-1
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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80306-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/26/2018 10:46:05 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Job ID: 180-80306-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80306-1

Receipt
The samples were received on 8/1/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8º C, 3.3º C and 3.3º C.

GC Semi VOA
Method(s) 8082A: Sample W10-2 (180-80306-12) had the recovery of surrogate tetrachloro-m-xylene above the control limits on one column. The recoveries of surrogate decachlorobiphenyl were within the control limits.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253212 was above criteria for 2 peaks for aroclor 1248 (CCV 180-253212/4) on column RTX-CLP1. The associated positive sample results for aroclor 1248 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verifications (CCVs) analyzed in batch 180-253212 were above criteria for aroclor 1016 (CCVIS 180-253212/26 and CCVIS 180-253212/48) on column RTX-CLP1. As the CCVs were high and aroclor 1016 was not detected in the associated samples, the results were reported.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253474 was below criteria for 1 peak for aroclor 1248 (CCV 180-253474/4) on column RTX-CLP1. The associated positive sample results for aroclor 1248 were reported from column RTX-CLP2 which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: The continuing calibration verifications (CCVs) analyzed in batch 180-253474 were above criteria for 1or 2 peaks for aroclor 1016 (CCVIS 180-253474/5 and CCVIS 180-253474/26) on both columns. As the CCVs were high and aroclor 1016 was not detected in the associated samples, the results were reported.

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.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80306-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80306-1	W1-2	Solid	07/27/18 11:30	08/01/18 09:00
180-80306-2	W2-3	Solid	07/27/18 11:20	08/01/18 09:00
180-80306-3	W3-1	Solid	07/27/18 10:55	08/01/18 09:00
180-80306-4	W3-2	Solid	07/27/18 11:00	08/01/18 09:00
180-80306-5	W4-2	Solid	07/27/18 10:50	08/01/18 09:00
180-80306-6	W6-1	Solid	07/27/18 10:20	08/01/18 09:00
180-80306-7	W7-1	Solid	07/27/18 10:10	08/01/18 09:00
180-80306-8	W7-2	Solid	07/27/18 10:15	08/01/18 09:00
180-80306-9	W8-1	Solid	07/27/18 10:10	08/01/18 09:00
180-80306-10	W9-2	Solid	07/27/18 10:05	08/01/18 09:00
180-80306-11	W10-1	Solid	07/27/18 09:40	08/01/18 09:00
180-80306-12	W10-2	Solid	07/27/18 09:45	08/01/18 09:00
180-80306-13	W11-1	Solid	07/27/18 09:30	08/01/18 09:00
180-80306-14	W11-2	Solid	07/27/18 09:35	08/01/18 09:00
180-80306-15	W12-1	Solid	07/27/18 09:20	08/01/18 09:00
180-80306-16	W12-2	Solid	07/27/18 09:15	08/01/18 09:00
180-80306-17	W6-3	Solid	07/27/18 10:30	08/01/18 09:00
180-80306-18	DUP-1	Solid	07/27/18 00:00	08/01/18 09:00
180-80306-19	DUP-2	Solid	07/27/18 00:00	08/01/18 09:00
180-80306-20	DUP-3	Solid	07/27/18 00:00	08/01/18 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
EPA 6010C	Metals (ICP)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3050B	Preparation, Metals	SW846	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: W1-2
Date Collected: 07/27/18 11:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-2
Date Collected: 07/27/18 11:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-1
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253196	08/08/18 15:49	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253294	08/09/18 11:54	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253295	08/09/18 11:55	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253212	08/10/18 04:11	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.01 g	100 mL	252645	08/02/18 14:28	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			253875	08/14/18 17:44	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.62 g	100.0 mL	254073	08/16/18 12:00	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 11:13	RSK	TAL PIT
	Instrument ID: K									

Client Sample ID: W2-3
Date Collected: 07/27/18 11:20
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2-3
Date Collected: 07/27/18 11:20
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-2
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1	1 uL	1.0 mL	253474	08/11/18 10:31	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: W3-1
Date Collected: 07/27/18 10:55
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3-1
Date Collected: 07/27/18 10:55
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-3
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253196	08/08/18 15:49	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253294	08/09/18 11:54	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253295	08/09/18 11:55	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253212	08/10/18 04:30	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.00 g	100 mL	252645	08/02/18 14:28	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			253875	08/14/18 17:49	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.63 g	100.0 mL	254073	08/16/18 12:00	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 11:15	RSK	TAL PIT
	Instrument ID: K									

Client Sample ID: W3-2
Date Collected: 07/27/18 11:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3-2
Date Collected: 07/27/18 11:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-4
Matrix: Solid
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 11:36	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.01 g	100 mL	252645	08/02/18 14:28	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			253875	08/14/18 17:54	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.56 g	100.0 mL	254073	08/16/18 12:00	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 11:17	RSK	TAL PIT
	Instrument ID: K									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: W4-2
Date Collected: 07/27/18 10:50
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4-2
Date Collected: 07/27/18 10:50
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-5
Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 11:58	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: W6-1
Date Collected: 07/27/18 10:20
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6-1
Date Collected: 07/27/18 10:20
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-6
Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 12:20	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: W7-1
Date Collected: 07/27/18 10:10
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: W7-1
Date Collected: 07/27/18 10:10
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-7
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 13:24	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: W7-2
Date Collected: 07/27/18 10:15
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7-2
Date Collected: 07/27/18 10:15
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-8
Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 13:46	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: W8-1
Date Collected: 07/27/18 10:10
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8-1
Date Collected: 07/27/18 10:10
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-9
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 14:07	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: W9-2
Date Collected: 07/27/18 10:05
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9-2
Date Collected: 07/27/18 10:05
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-10
Matrix: Solid
Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 14:29	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: W10-1
Date Collected: 07/27/18 09:40
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252630	08/02/18 13:31	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W10-1
Date Collected: 07/27/18 09:40
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-11
Matrix: Solid
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 14:51	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.97 g	100 mL	252645	08/02/18 14:28	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			253875	08/14/18 17:59	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.55 g	100.0 mL	254073	08/16/18 12:00	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 11:23	RSK	TAL PIT
	Instrument ID: K									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: W10-2
Date Collected: 07/27/18 09:45
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252641	08/02/18 14:13	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W10-2
Date Collected: 07/27/18 09:45
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-12
Matrix: Solid
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 15:12	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: W11-1
Date Collected: 07/27/18 09:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252641	08/02/18 14:13	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W11-1
Date Collected: 07/27/18 09:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-13
Matrix: Solid
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 15:34	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: W11-2
Date Collected: 07/27/18 09:35
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252641	08/02/18 14:13	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: W11-2
Date Collected: 07/27/18 09:35
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-14
Matrix: Solid
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 15:56	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: W12-1
Date Collected: 07/27/18 09:20
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252641	08/02/18 14:13	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W12-1
Date Collected: 07/27/18 09:20
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-15
Matrix: Solid
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 17:01	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: W12-2
Date Collected: 07/27/18 09:15
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252641	08/02/18 14:13	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W12-2
Date Collected: 07/27/18 09:15
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-16
Matrix: Solid
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 17:23	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: W6-3
Date Collected: 07/27/18 10:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252641	08/02/18 14:13	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6-3
Date Collected: 07/27/18 10:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-17
Matrix: Solid
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 17:45	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.00 g	100 mL	252645	08/02/18 14:28	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			253875	08/14/18 18:04	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.55 g	100.0 mL	254073	08/16/18 12:00	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 11:25	RSK	TAL PIT
	Instrument ID: K									

Client Sample ID: DUP-1
Date Collected: 07/27/18 00:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252641	08/02/18 14:13	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-1
Date Collected: 07/27/18 00:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-18
Matrix: Solid
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 18:07	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: DUP-2
Date Collected: 07/27/18 00:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252641	08/02/18 14:13	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-2
Date Collected: 07/27/18 00:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-19
Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 18:29	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: DUP-3
Date Collected: 07/27/18 00:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252641	08/02/18 14:13	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-3
Date Collected: 07/27/18 00:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-20
Matrix: Solid
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253333	08/09/18 15:44	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253417	08/10/18 10:59	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253419	08/10/18 11:01	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253474	08/11/18 18:51	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

KA = Kayla Kalamasz

RSK = Robert Kurtz

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

JMO = John Oravec

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample ID: W1-2
Date Collected: 07/27/18 11:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-1
Matrix: Solid
Percent Solids: 82.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/08/18 15:49	08/10/18 04:11	1
PCB-1221	ND		20	13	ug/Kg	☼	08/08/18 15:49	08/10/18 04:11	1
PCB-1232	ND		20	12	ug/Kg	☼	08/08/18 15:49	08/10/18 04:11	1
PCB-1242	ND		20	12	ug/Kg	☼	08/08/18 15:49	08/10/18 04:11	1
PCB-1248	**1100**		20	16	ug/Kg	☼	08/08/18 15:49	08/10/18 04:11	1
PCB-1254	**460**		20	13	ug/Kg	☼	08/08/18 15:49	08/10/18 04:11	1
PCB-1260	**120**		20	5.6	ug/Kg	☼	08/08/18 15:49	08/10/18 04:11	1
PCB-1262	ND		20	14	ug/Kg	☼	08/08/18 15:49	08/10/18 04:11	1
PCB-1268	ND		20	9.6	ug/Kg	☼	08/08/18 15:49	08/10/18 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*08/08/18 15:49*	*08/10/18 04:11*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*08/08/18 15:49*	*08/10/18 04:11*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*08/08/18 15:49*	*08/10/18 04:11*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/08/18 15:49*	*08/10/18 04:11*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8200**	**B**	24	3.4	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Antimony	ND		1.2	0.41	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Arsenic	**9.8**		1.2	0.33	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Barium	**120**		24	1.3	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Beryllium	**0.42**	**J**	0.48	0.028	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Cadmium	ND		0.60	0.044	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Calcium	**4100**		600	31	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Chromium	**15**		0.60	0.15	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Cobalt	**7.1**		6.0	0.35	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Copper	**60**		3.0	0.20	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Iron	**19000**	**B**	12	6.1	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Lead	**72**		1.2	0.30	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Magnesium	**2600**		600	40	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Manganese	**330**	**B**	1.8	0.20	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Nickel	**43**		4.8	0.30	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Potassium	**620**		600	42	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Selenium	**0.86**	**J**	1.2	0.62	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Silver	ND		0.60	0.13	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Sodium	**350**	**J**	600	31	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Thallium	**0.37**	**J**	2.4	0.25	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Vanadium	**16**		6.0	0.84	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1
Zinc	**100**		2.4	1.3	mg/Kg	☼	08/02/18 14:28	08/14/18 17:44	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.055**		0.039	0.0087	mg/Kg	☼	08/16/18 12:00	08/17/18 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	**82.4**		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W2-3

Date Collected: 07/27/18 11:20
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-2

Matrix: Solid
Percent Solids: 84.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.3	ug/Kg	☼	08/09/18 15:44	08/11/18 10:31	1
PCB-1221	ND		20	13	ug/Kg	☼	08/09/18 15:44	08/11/18 10:31	1
PCB-1232	ND		20	12	ug/Kg	☼	08/09/18 15:44	08/11/18 10:31	1
PCB-1242	ND		20	12	ug/Kg	☼	08/09/18 15:44	08/11/18 10:31	1
PCB-1248	**720**		20	15	ug/Kg	☼	08/09/18 15:44	08/11/18 10:31	1
PCB-1254	**290**		20	13	ug/Kg	☼	08/09/18 15:44	08/11/18 10:31	1
PCB-1260	**83**		20	5.5	ug/Kg	☼	08/09/18 15:44	08/11/18 10:31	1
PCB-1262	ND		20	14	ug/Kg	☼	08/09/18 15:44	08/11/18 10:31	1
PCB-1268	ND		20	9.5	ug/Kg	☼	08/09/18 15:44	08/11/18 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*08/09/18 15:44*	*08/11/18 10:31*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*33 - 137*	*08/09/18 15:44*	*08/11/18 10:31*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*08/09/18 15:44*	*08/11/18 10:31*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*08/09/18 15:44*	*08/11/18 10:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.1**		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	**84.9**		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W3-1

Date Collected: 07/27/18 10:55
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-3

Matrix: Solid
Percent Solids: 87.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/08/18 15:49	08/10/18 04:30	1
PCB-1221	ND		19	12	ug/Kg	☼	08/08/18 15:49	08/10/18 04:30	1
PCB-1232	ND		19	11	ug/Kg	☼	08/08/18 15:49	08/10/18 04:30	1
PCB-1242	ND		19	11	ug/Kg	☼	08/08/18 15:49	08/10/18 04:30	1
PCB-1248	**150**		19	15	ug/Kg	☼	08/08/18 15:49	08/10/18 04:30	1
PCB-1254	**48**		19	13	ug/Kg	☼	08/08/18 15:49	08/10/18 04:30	1
PCB-1260	**7.9**	**J**	19	5.4	ug/Kg	☼	08/08/18 15:49	08/10/18 04:30	1
PCB-1262	ND		19	13	ug/Kg	☼	08/08/18 15:49	08/10/18 04:30	1
PCB-1268	ND		19	9.3	ug/Kg	☼	08/08/18 15:49	08/10/18 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*08/08/18 15:49*	*08/10/18 04:30*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*08/08/18 15:49*	*08/10/18 04:30*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*08/08/18 15:49*	*08/10/18 04:30*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/08/18 15:49*	*08/10/18 04:30*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6500**	**B**	23	3.3	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Antimony	ND		1.1	0.39	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Arsenic	**5.0**		1.1	0.32	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Barium	**58**		23	1.2	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Beryllium	**0.26**	**J**	0.46	0.026	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Cadmium	ND		0.57	0.042	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1

Client Sample ID: W3-1

Date Collected: 07/27/18 10:55
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-3

Matrix: Solid
Percent Solids: 87.3

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8900		570	30	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Chromium	7.7		0.57	0.14	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Cobalt	6.0		5.7	0.34	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Copper	23		2.9	0.19	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Iron	16000	B	11	5.8	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Lead	8.6		1.1	0.28	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Magnesium	3200		570	38	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Manganese	690	B	1.7	0.19	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Nickel	14		4.6	0.28	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Potassium	490	J	570	40	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Selenium	ND		1.1	0.59	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Silver	ND		0.57	0.12	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Sodium	170	J	570	30	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Thallium	0.35	J	2.3	0.24	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Vanadium	11		5.7	0.80	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1
Zinc	55		2.3	1.2	mg/Kg	☼	08/02/18 14:28	08/14/18 17:49	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	J	0.036	0.0081	mg/Kg	☼	08/16/18 12:00	08/17/18 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	87.3		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W3-2

Date Collected: 07/27/18 11:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-4

Matrix: Solid
Percent Solids: 80.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	08/09/18 15:44	08/11/18 11:36	1
PCB-1221	ND		20	13	ug/Kg	☼	08/09/18 15:44	08/11/18 11:36	1
PCB-1232	ND		20	12	ug/Kg	☼	08/09/18 15:44	08/11/18 11:36	1
PCB-1242	ND		20	12	ug/Kg	☼	08/09/18 15:44	08/11/18 11:36	1
PCB-1248	990		20	16	ug/Kg	☼	08/09/18 15:44	08/11/18 11:36	1
PCB-1254	230		20	14	ug/Kg	☼	08/09/18 15:44	08/11/18 11:36	1
PCB-1260	60		20	5.8	ug/Kg	☼	08/09/18 15:44	08/11/18 11:36	1
PCB-1262	ND		20	14	ug/Kg	☼	08/09/18 15:44	08/11/18 11:36	1
PCB-1268	ND		20	9.9	ug/Kg	☼	08/09/18 15:44	08/11/18 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/09/18 15:44*	*08/11/18 11:36*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/09/18 15:44*	*08/11/18 11:36*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*08/09/18 15:44*	*08/11/18 11:36*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*08/09/18 15:44*	*08/11/18 11:36*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5500	B	25	3.5	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1

Client Sample ID: W3-2

Date Collected: 07/27/18 11:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-4

Matrix: Solid
Percent Solids: 80.6

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.2	0.42	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Arsenic	**5.0**		1.2	0.34	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Barium	**56**		25	1.3	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Beryllium	**0.27**	**J**	0.49	0.028	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Cadmium	ND		0.61	0.045	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Calcium	**12000**		610	32	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Chromium	**9.3**		0.61	0.15	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Cobalt	**5.0**	**J**	6.1	0.36	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Copper	**39**		3.1	0.21	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Iron	**13000**	**B**	12	6.2	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Lead	**44**		1.2	0.30	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Magnesium	**4000**		610	40	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Manganese	**380**	**B**	1.8	0.20	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Nickel	**25**		4.9	0.31	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Potassium	**660**		610	43	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Selenium	ND		1.2	0.63	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Silver	ND		0.61	0.13	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Sodium	**180**	**J**	610	32	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Thallium	ND		2.5	0.26	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Vanadium	**9.9**		6.1	0.86	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1
Zinc	**55**		2.5	1.3	mg/Kg	☼	08/02/18 14:28	08/14/18 17:54	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**	**J**	0.044	0.0098	mg/Kg	☼	08/16/18 12:00	08/17/18 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.4**		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	**80.6**		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W4-2

Date Collected: 07/27/18 10:50
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-5

Matrix: Solid
Percent Solids: 86.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/09/18 15:44	08/11/18 11:58	1
PCB-1221	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 11:58	1
PCB-1232	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 11:58	1
PCB-1242	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 11:58	1
PCB-1248	**1100**		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 11:58	1
PCB-1254	**440**		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 11:58	1
PCB-1260	**140**		19	5.4	ug/Kg	☼	08/09/18 15:44	08/11/18 11:58	1
PCB-1262	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 11:58	1
PCB-1268	ND		19	9.2	ug/Kg	☼	08/09/18 15:44	08/11/18 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*08/09/18 15:44*	*08/11/18 11:58*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*08/09/18 15:44*	*08/11/18 11:58*	*1*

Client Sample ID: W4-2

Lab Sample ID: 180-80306-5
Date Collected: 07/27/18 10:50
Matrix: Solid
Date Received: 08/01/18 09:00
Percent Solids: 86.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/09/18 15:44*	*08/11/18 11:58*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*08/09/18 15:44*	*08/11/18 11:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	**86.9**		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W6-1

Lab Sample ID: 180-80306-6
Date Collected: 07/27/18 10:20
Matrix: Solid
Date Received: 08/01/18 09:00
Percent Solids: 84.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/09/18 15:44	08/11/18 12:20	1
PCB-1221	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 12:20	1
PCB-1232	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 12:20	1
PCB-1242	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 12:20	1
PCB-1248	**140**		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 12:20	1
PCB-1254	**76**		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 12:20	1
PCB-1260	**23**		19	5.4	ug/Kg	☼	08/09/18 15:44	08/11/18 12:20	1
PCB-1262	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 12:20	1
PCB-1268	ND		19	9.2	ug/Kg	☼	08/09/18 15:44	08/11/18 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*08/09/18 15:44*	*08/11/18 12:20*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*33 - 137*	*08/09/18 15:44*	*08/11/18 12:20*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/09/18 15:44*	*08/11/18 12:20*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*08/09/18 15:44*	*08/11/18 12:20*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.2**		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	**84.8**		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W7-1

Lab Sample ID: 180-80306-7
Date Collected: 07/27/18 10:10
Matrix: Solid
Date Received: 08/01/18 09:00
Percent Solids: 90.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	08/09/18 15:44	08/11/18 13:24	1
PCB-1221	ND		18	12	ug/Kg	☼	08/09/18 15:44	08/11/18 13:24	1
PCB-1232	ND		18	11	ug/Kg	☼	08/09/18 15:44	08/11/18 13:24	1
PCB-1242	ND		18	11	ug/Kg	☼	08/09/18 15:44	08/11/18 13:24	1
PCB-1248	**100**		18	14	ug/Kg	☼	08/09/18 15:44	08/11/18 13:24	1
PCB-1254	**70**		18	12	ug/Kg	☼	08/09/18 15:44	08/11/18 13:24	1
PCB-1260	**10**	**J**	18	5.2	ug/Kg	☼	08/09/18 15:44	08/11/18 13:24	1
PCB-1262	ND		18	13	ug/Kg	☼	08/09/18 15:44	08/11/18 13:24	1
PCB-1268	ND		18	8.9	ug/Kg	☼	08/09/18 15:44	08/11/18 13:24	1

Client Sample ID: W7-1

Lab Sample ID: 180-80306-7
Date Collected: 07/27/18 10:10
Matrix: Solid
Date Received: 08/01/18 09:00
Percent Solids: 90.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*08/09/18 15:44*	*08/11/18 13:24*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*33 - 137*	*08/09/18 15:44*	*08/11/18 13:24*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*	*08/09/18 15:44*	*08/11/18 13:24*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*08/09/18 15:44*	*08/11/18 13:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	**90.7**		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W7-2

Lab Sample ID: 180-80306-8
Date Collected: 07/27/18 10:15
Matrix: Solid
Date Received: 08/01/18 09:00
Percent Solids: 88.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/09/18 15:44	08/11/18 13:46	1
PCB-1221	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 13:46	1
PCB-1232	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 13:46	1
PCB-1242	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 13:46	1
PCB-1248	**380**		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 13:46	1
PCB-1254	**180**		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 13:46	1
PCB-1260	**52**		19	5.3	ug/Kg	☼	08/09/18 15:44	08/11/18 13:46	1
PCB-1262	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 13:46	1
PCB-1268	ND		19	9.0	ug/Kg	☼	08/09/18 15:44	08/11/18 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/09/18 15:44*	*08/11/18 13:46*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/09/18 15:44*	*08/11/18 13:46*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*08/09/18 15:44*	*08/11/18 13:46*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*08/09/18 15:44*	*08/11/18 13:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	**88.3**		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W8-1

Lab Sample ID: 180-80306-9
Date Collected: 07/27/18 10:10
Matrix: Solid
Date Received: 08/01/18 09:00
Percent Solids: 84.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	08/09/18 15:44	08/11/18 14:07	1
PCB-1221	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 14:07	1
PCB-1232	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 14:07	1
PCB-1242	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 14:07	1
PCB-1248	**2300**		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 14:07	1
PCB-1254	**1200**		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 14:07	1
PCB-1260	**210**		19	5.5	ug/Kg	☼	08/09/18 15:44	08/11/18 14:07	1
PCB-1262	ND		19	14	ug/Kg	☼	08/09/18 15:44	08/11/18 14:07	1

Client Sample ID: W8-1 — Lab Sample ID: 180-80306-9

Date Collected: 07/27/18 10:10 — Matrix: Solid
Date Received: 08/01/18 09:00 — Percent Solids: 84.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		19	9.4	ug/Kg	☼	08/09/18 15:44	08/11/18 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*33 - 137*	*08/09/18 15:44*	*08/11/18 14:07*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*	*08/09/18 15:44*	*08/11/18 14:07*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*	*08/09/18 15:44*	*08/11/18 14:07*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*44 - 114*	*08/09/18 15:44*	*08/11/18 14:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.4**		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	**84.6**		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W9-2 — Lab Sample ID: 180-80306-10

Date Collected: 07/27/18 10:05 — Matrix: Solid
Date Received: 08/01/18 09:00 — Percent Solids: 78.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.7	ug/Kg	☼	08/09/18 15:44	08/11/18 14:29	1
PCB-1221	ND		21	13	ug/Kg	☼	08/09/18 15:44	08/11/18 14:29	1
PCB-1232	ND		21	12	ug/Kg	☼	08/09/18 15:44	08/11/18 14:29	1
PCB-1242	ND		21	12	ug/Kg	☼	08/09/18 15:44	08/11/18 14:29	1
PCB-1248	**1200**		21	16	ug/Kg	☼	08/09/18 15:44	08/11/18 14:29	1
PCB-1254	**580**		21	14	ug/Kg	☼	08/09/18 15:44	08/11/18 14:29	1
PCB-1260	**170**		21	5.9	ug/Kg	☼	08/09/18 15:44	08/11/18 14:29	1
PCB-1262	ND		21	15	ug/Kg	☼	08/09/18 15:44	08/11/18 14:29	1
PCB-1268	ND		21	10	ug/Kg	☼	08/09/18 15:44	08/11/18 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*08/09/18 15:44*	*08/11/18 14:29*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*08/09/18 15:44*	*08/11/18 14:29*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*08/09/18 15:44*	*08/11/18 14:29*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*44 - 114*	*08/09/18 15:44*	*08/11/18 14:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.1**		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	**78.9**		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W10-1 — Lab Sample ID: 180-80306-11

Date Collected: 07/27/18 09:40 — Matrix: Solid
Date Received: 08/01/18 09:00 — Percent Solids: 88.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/09/18 15:44	08/11/18 14:51	1
PCB-1221	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 14:51	1
PCB-1232	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 14:51	1
PCB-1242	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 14:51	1
PCB-1248	**790**		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 14:51	1

Client Sample ID: W10-1
Date Collected: 07/27/18 09:40
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-11
Matrix: Solid
Percent Solids: 88.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	650		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 14:51	1
PCB-1260	260		19	5.3	ug/Kg	☼	08/09/18 15:44	08/11/18 14:51	1
PCB-1262	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 14:51	1
PCB-1268	ND		19	9.1	ug/Kg	☼	08/09/18 15:44	08/11/18 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*08/09/18 15:44*	*08/11/18 14:51*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*08/09/18 15:44*	*08/11/18 14:51*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*08/09/18 15:44*	*08/11/18 14:51*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*08/09/18 15:44*	*08/11/18 14:51*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6300	B	23	3.3	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Antimony	0.50	J	1.2	0.40	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Arsenic	6.9		1.2	0.32	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Barium	71		23	1.3	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Beryllium	0.28	J	0.47	0.027	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Cadmium	ND		0.58	0.042	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Calcium	26000		580	30	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Chromium	23		0.58	0.14	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Cobalt	5.9		5.8	0.34	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Copper	74		2.9	0.19	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Iron	19000	B	12	5.9	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Lead	90		1.2	0.29	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Magnesium	3000		580	38	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Manganese	370	B	1.7	0.19	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Nickel	86		4.7	0.29	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Potassium	670		580	41	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Selenium	ND		1.2	0.60	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Silver	ND		0.58	0.12	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Sodium	150	J	580	30	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Thallium	ND		2.3	0.24	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Vanadium	12		5.8	0.81	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1
Zinc	70		2.3	1.3	mg/Kg	☼	08/02/18 14:28	08/14/18 17:59	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080		0.041	0.0091	mg/Kg	☼	08/16/18 12:00	08/17/18 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		0.1	0.1	%			08/02/18 13:31	1
Percent Solids	88.4		0.1	0.1	%			08/02/18 13:31	1

Client Sample ID: W10-2

Date Collected: 07/27/18 09:45
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-12
Matrix: Solid
Percent Solids: 87.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/09/18 15:44	08/11/18 15:12	1
PCB-1221	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 15:12	1
PCB-1232	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 15:12	1
PCB-1242	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 15:12	1
PCB-1248	**180**		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 15:12	1
PCB-1254	**85**		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 15:12	1
PCB-1260	**27**		19	5.3	ug/Kg	☼	08/09/18 15:44	08/11/18 15:12	1
PCB-1262	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 15:12	1
PCB-1268	ND		19	9.1	ug/Kg	☼	08/09/18 15:44	08/11/18 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*33 - 137*	*08/09/18 15:44*	*08/11/18 15:12*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*	*08/09/18 15:44*	*08/11/18 15:12*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*08/09/18 15:44*	*08/11/18 15:12*	*1*
Tetrachloro-m-xylene (Surr)	*129*	*X*	*44 - 114*	*08/09/18 15:44*	*08/11/18 15:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.3**		0.1	0.1	%			08/02/18 14:13	1
Percent Solids	**87.7**		0.1	0.1	%			08/02/18 14:13	1

Client Sample ID: W11-1

Date Collected: 07/27/18 09:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-13
Matrix: Solid
Percent Solids: 81.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	08/09/18 15:44	08/11/18 15:34	1
PCB-1221	ND		20	13	ug/Kg	☼	08/09/18 15:44	08/11/18 15:34	1
PCB-1232	ND		20	12	ug/Kg	☼	08/09/18 15:44	08/11/18 15:34	1
PCB-1242	ND		20	12	ug/Kg	☼	08/09/18 15:44	08/11/18 15:34	1
PCB-1248	**620**		20	16	ug/Kg	☼	08/09/18 15:44	08/11/18 15:34	1
PCB-1254	**690**		20	14	ug/Kg	☼	08/09/18 15:44	08/11/18 15:34	1
PCB-1260	**280**		20	5.7	ug/Kg	☼	08/09/18 15:44	08/11/18 15:34	1
PCB-1262	ND		20	14	ug/Kg	☼	08/09/18 15:44	08/11/18 15:34	1
PCB-1268	ND		20	9.7	ug/Kg	☼	08/09/18 15:44	08/11/18 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/09/18 15:44*	*08/11/18 15:34*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/09/18 15:44*	*08/11/18 15:34*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/09/18 15:44*	*08/11/18 15:34*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*08/09/18 15:44*	*08/11/18 15:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.1**		0.1	0.1	%			08/02/18 14:13	1
Percent Solids	**81.9**		0.1	0.1	%			08/02/18 14:13	1

Client Sample ID: W11-2

Date Collected: 07/27/18 09:35
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-14
Matrix: Solid
Percent Solids: 85.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/09/18 15:44	08/11/18 15:56	1
PCB-1221	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 15:56	1
PCB-1232	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 15:56	1
PCB-1242	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 15:56	1
PCB-1248	**540**		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 15:56	1
PCB-1254	**570**		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 15:56	1
PCB-1260	**150**		19	5.4	ug/Kg	☼	08/09/18 15:44	08/11/18 15:56	1
PCB-1262	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 15:56	1
PCB-1268	ND		19	9.2	ug/Kg	☼	08/09/18 15:44	08/11/18 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*08/09/18 15:44*	*08/11/18 15:56*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/09/18 15:44*	*08/11/18 15:56*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/09/18 15:44*	*08/11/18 15:56*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/09/18 15:44*	*08/11/18 15:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		0.1	0.1	%			08/02/18 14:13	1
Percent Solids	**85.3**		0.1	0.1	%			08/02/18 14:13	1

Client Sample ID: W12-1

Date Collected: 07/27/18 09:20
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-15
Matrix: Solid
Percent Solids: 80.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.7	ug/Kg	☼	08/09/18 15:44	08/11/18 17:01	1
PCB-1221	ND		21	13	ug/Kg	☼	08/09/18 15:44	08/11/18 17:01	1
PCB-1232	ND		21	12	ug/Kg	☼	08/09/18 15:44	08/11/18 17:01	1
PCB-1242	ND		21	12	ug/Kg	☼	08/09/18 15:44	08/11/18 17:01	1
PCB-1248	**510**		21	16	ug/Kg	☼	08/09/18 15:44	08/11/18 17:01	1
PCB-1254	**240**		21	14	ug/Kg	☼	08/09/18 15:44	08/11/18 17:01	1
PCB-1260	**63**		21	5.9	ug/Kg	☼	08/09/18 15:44	08/11/18 17:01	1
PCB-1262	ND		21	14	ug/Kg	☼	08/09/18 15:44	08/11/18 17:01	1
PCB-1268	ND		21	10	ug/Kg	☼	08/09/18 15:44	08/11/18 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*08/09/18 15:44*	*08/11/18 17:01*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*08/09/18 15:44*	*08/11/18 17:01*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*	*08/09/18 15:44*	*08/11/18 17:01*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*08/09/18 15:44*	*08/11/18 17:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.2**		0.1	0.1	%			08/02/18 14:13	1
Percent Solids	**80.8**		0.1	0.1	%			08/02/18 14:13	1

Client Sample ID: W12-2

Date Collected: 07/27/18 09:15
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-16

Matrix: Solid
Percent Solids: 80.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	08/09/18 15:44	08/11/18 17:23	1
PCB-1221	ND		20	13	ug/Kg	☼	08/09/18 15:44	08/11/18 17:23	1
PCB-1232	ND		20	12	ug/Kg	☼	08/09/18 15:44	08/11/18 17:23	1
PCB-1242	ND		20	12	ug/Kg	☼	08/09/18 15:44	08/11/18 17:23	1
PCB-1248	**270**		20	16	ug/Kg	☼	08/09/18 15:44	08/11/18 17:23	1
PCB-1254	**410**		20	14	ug/Kg	☼	08/09/18 15:44	08/11/18 17:23	1
PCB-1260	**160**		20	5.8	ug/Kg	☼	08/09/18 15:44	08/11/18 17:23	1
PCB-1262	ND		20	14	ug/Kg	☼	08/09/18 15:44	08/11/18 17:23	1
PCB-1268	ND		20	9.9	ug/Kg	☼	08/09/18 15:44	08/11/18 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*08/09/18 15:44*	*08/11/18 17:23*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*08/09/18 15:44*	*08/11/18 17:23*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*08/09/18 15:44*	*08/11/18 17:23*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*08/09/18 15:44*	*08/11/18 17:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.5**		0.1	0.1	%			08/02/18 14:13	1
Percent Solids	**80.5**		0.1	0.1	%			08/02/18 14:13	1

Client Sample ID: W6-3

Date Collected: 07/27/18 10:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-17

Matrix: Solid
Percent Solids: 84.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	08/09/18 15:44	08/11/18 17:45	1
PCB-1221	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 17:45	1
PCB-1232	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 17:45	1
PCB-1242	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 17:45	1
PCB-1248	**390**		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 17:45	1
PCB-1254	**170**		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 17:45	1
PCB-1260	**36**		19	5.5	ug/Kg	☼	08/09/18 15:44	08/11/18 17:45	1
PCB-1262	ND		19	14	ug/Kg	☼	08/09/18 15:44	08/11/18 17:45	1
PCB-1268	ND		19	9.5	ug/Kg	☼	08/09/18 15:44	08/11/18 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/09/18 15:44*	*08/11/18 17:45*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/09/18 15:44*	*08/11/18 17:45*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*08/09/18 15:44*	*08/11/18 17:45*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*08/09/18 15:44*	*08/11/18 17:45*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**	**B**	24	3.4	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Antimony	ND		1.2	0.40	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Arsenic	**7.5**		1.2	0.33	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Barium	**100**		24	1.3	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Beryllium	**0.43**	**J**	0.47	0.027	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Cadmium	ND		0.59	0.043	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1

Client Sample ID: W6-3

Date Collected: 07/27/18 10:30
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-17

Matrix: Solid
Percent Solids: 84.4

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	4900		590	31	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Chromium	15		0.59	0.15	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Cobalt	8.3		5.9	0.35	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Copper	85		3.0	0.20	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Iron	23000	B	12	6.0	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Lead	110		1.2	0.29	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Magnesium	3000		590	39	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Manganese	500	B	1.8	0.19	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Nickel	59		4.7	0.29	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Potassium	840		590	41	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Selenium	ND		1.2	0.61	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Silver	ND		0.59	0.12	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Sodium	140	J	590	31	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Thallium	0.30	J	2.4	0.25	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Vanadium	17		5.9	0.82	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1
Zinc	100		2.4	1.3	mg/Kg	☼	08/02/18 14:28	08/14/18 18:04	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041	J	0.043	0.0095	mg/Kg	☼	08/16/18 12:00	08/17/18 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.6		0.1	0.1	%			08/02/18 14:13	1
Percent Solids	84.4		0.1	0.1	%			08/02/18 14:13	1

Client Sample ID: DUP-1

Date Collected: 07/27/18 00:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-18

Matrix: Solid
Percent Solids: 87.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	08/09/18 15:44	08/11/18 18:07	1
PCB-1221	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 18:07	1
PCB-1232	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 18:07	1
PCB-1242	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 18:07	1
PCB-1248	1100		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 18:07	1
PCB-1254	520		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 18:07	1
PCB-1260	130		19	5.3	ug/Kg	☼	08/09/18 15:44	08/11/18 18:07	1
PCB-1262	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 18:07	1
PCB-1268	ND		19	9.0	ug/Kg	☼	08/09/18 15:44	08/11/18 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*08/09/18 15:44*	*08/11/18 18:07*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*08/09/18 15:44*	*08/11/18 18:07*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*08/09/18 15:44*	*08/11/18 18:07*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*08/09/18 15:44*	*08/11/18 18:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.4		0.1	0.1	%			08/02/18 14:13	1

Client Sample ID: DUP-1

Lab Sample ID: 180-80306-18
Date Collected: 07/27/18 00:00
Matrix: Solid
Date Received: 08/01/18 09:00
Percent Solids: 87.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**87.6**		0.1	0.1	%			08/02/18 14:13	1

Client Sample ID: DUP-2

Lab Sample ID: 180-80306-19
Date Collected: 07/27/18 00:00
Matrix: Solid
Date Received: 08/01/18 09:00
Percent Solids: 88.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/09/18 15:44	08/11/18 18:29	1
PCB-1221	ND		19	12	ug/Kg	☼	08/09/18 15:44	08/11/18 18:29	1
PCB-1232	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 18:29	1
PCB-1242	ND		19	11	ug/Kg	☼	08/09/18 15:44	08/11/18 18:29	1
PCB-1248	**630**		19	15	ug/Kg	☼	08/09/18 15:44	08/11/18 18:29	1
PCB-1254	**550**		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 18:29	1
PCB-1260	**210**		19	5.3	ug/Kg	☼	08/09/18 15:44	08/11/18 18:29	1
PCB-1262	ND		19	13	ug/Kg	☼	08/09/18 15:44	08/11/18 18:29	1
PCB-1268	ND		19	9.1	ug/Kg	☼	08/09/18 15:44	08/11/18 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*105*		*33 - 137*	*08/09/18 15:44*	*08/11/18 18:29*	*1*
DCB Decachlorobiphenyl (Surr)	*104*		*33 - 137*	*08/09/18 15:44*	*08/11/18 18:29*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*44 - 114*	*08/09/18 15:44*	*08/11/18 18:29*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*	*08/09/18 15:44*	*08/11/18 18:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			08/02/18 14:13	1
Percent Solids	**88.3**		0.1	0.1	%			08/02/18 14:13	1

Client Sample ID: DUP-3

Lab Sample ID: 180-80306-20
Date Collected: 07/27/18 00:00
Matrix: Solid
Date Received: 08/01/18 09:00
Percent Solids: 76.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	7.0	ug/Kg	☼	08/09/18 15:44	08/11/18 18:51	1
PCB-1221	ND		21	14	ug/Kg	☼	08/09/18 15:44	08/11/18 18:51	1
PCB-1232	ND		21	13	ug/Kg	☼	08/09/18 15:44	08/11/18 18:51	1
PCB-1242	ND		21	13	ug/Kg	☼	08/09/18 15:44	08/11/18 18:51	1
PCB-1248	**350**		21	17	ug/Kg	☼	08/09/18 15:44	08/11/18 18:51	1
PCB-1254	**500**		21	15	ug/Kg	☼	08/09/18 15:44	08/11/18 18:51	1
PCB-1260	**200**		21	6.1	ug/Kg	☼	08/09/18 15:44	08/11/18 18:51	1
PCB-1262	ND		21	15	ug/Kg	☼	08/09/18 15:44	08/11/18 18:51	1
PCB-1268	ND		21	10	ug/Kg	☼	08/09/18 15:44	08/11/18 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*08/09/18 15:44*	*08/11/18 18:51*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*08/09/18 15:44*	*08/11/18 18:51*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*08/09/18 15:44*	*08/11/18 18:51*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*44 - 114*	*08/09/18 15:44*	*08/11/18 18:51*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Client Sample ID: DUP-3
Date Collected: 07/27/18 00:00
Date Received: 08/01/18 09:00

Lab Sample ID: 180-80306-20
Matrix: Solid
Percent Solids: 76.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.8		0.1	0.1	%			08/02/18 14:13	1
Percent Solids	76.2		0.1	0.1	%			08/02/18 14:13	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-253196/1-C
Matrix: Solid
Analysis Batch: 253212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/08/18 15:49	08/09/18 21:39	1
PCB-1221	ND		17	11	ug/Kg		08/08/18 15:49	08/09/18 21:39	1
PCB-1232	ND		17	9.9	ug/Kg		08/08/18 15:49	08/09/18 21:39	1
PCB-1242	ND		17	10	ug/Kg		08/08/18 15:49	08/09/18 21:39	1
PCB-1248	ND		17	13	ug/Kg		08/08/18 15:49	08/09/18 21:39	1
PCB-1254	ND		17	11	ug/Kg		08/08/18 15:49	08/09/18 21:39	1
PCB-1260	ND		17	4.7	ug/Kg		08/08/18 15:49	08/09/18 21:39	1
PCB-1262	ND		17	12	ug/Kg		08/08/18 15:49	08/09/18 21:39	1
PCB-1268	ND		17	8.1	ug/Kg		08/08/18 15:49	08/09/18 21:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*117*		*33 - 137*	*08/08/18 15:49*	*08/09/18 21:39*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*33 - 137*	*08/08/18 15:49*	*08/09/18 21:39*	*1*
Tetrachloro-m-xylene (Surr)	*109*		*44 - 114*	*08/08/18 15:49*	*08/09/18 21:39*	*1*
Tetrachloro-m-xylene (Surr)	*115*		*44 - 114*	*08/08/18 15:49*	*08/09/18 21:39*	*1*

Lab Sample ID: LCS 180-253196/2-C
Matrix: Solid
Analysis Batch: 253212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1330	1230		ug/Kg		93	46 - 122
PCB-1260	1330	1120		ug/Kg		84	51 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*

Lab Sample ID: MB 180-253333/1-C
Matrix: Solid
Analysis Batch: 253474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/09/18 15:44	08/11/18 09:27	1
PCB-1221	ND		17	11	ug/Kg		08/09/18 15:44	08/11/18 09:27	1
PCB-1232	ND		17	9.9	ug/Kg		08/09/18 15:44	08/11/18 09:27	1
PCB-1242	ND		17	10	ug/Kg		08/09/18 15:44	08/11/18 09:27	1
PCB-1248	ND		17	13	ug/Kg		08/09/18 15:44	08/11/18 09:27	1
PCB-1254	ND		17	11	ug/Kg		08/09/18 15:44	08/11/18 09:27	1
PCB-1260	ND		17	4.7	ug/Kg		08/09/18 15:44	08/11/18 09:27	1
PCB-1262	ND		17	12	ug/Kg		08/09/18 15:44	08/11/18 09:27	1
PCB-1268	ND		17	8.1	ug/Kg		08/09/18 15:44	08/11/18 09:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*	*08/09/18 15:44*	*08/11/18 09:27*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-253333/1-C
Matrix: Solid
Analysis Batch: 253474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253333

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	88		33 - 137	08/09/18 15:44	08/11/18 09:27	1
Tetrachloro-m-xylene (Surr)	90		44 - 114	08/09/18 15:44	08/11/18 09:27	1
Tetrachloro-m-xylene (Surr)	92		44 - 114	08/09/18 15:44	08/11/18 09:27	1

Lab Sample ID: LCS 180-253333/2-C
Matrix: Solid
Analysis Batch: 253474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253333

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1470		ug/Kg		110	46 - 122		
PCB-1260			1330	1240		ug/Kg		93	51 - 119		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	102		33 - 137
DCB Decachlorobiphenyl (Surr)	105		33 - 137
Tetrachloro-m-xylene (Surr)	102		44 - 114
Tetrachloro-m-xylene (Surr)	102		44 - 114

Lab Sample ID: 180-80306-2 MS
Matrix: Solid
Analysis Batch: 253474

Client Sample ID: W2-3
Prep Type: Total/NA
Prep Batch: 253333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1530	1770		ug/Kg	☼	116	46 - 122		
PCB-1260	83		1530	1130		ug/Kg	☼	69	51 - 119		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	93		33 - 137
DCB Decachlorobiphenyl (Surr)	94		33 - 137
Tetrachloro-m-xylene (Surr)	89		44 - 114
Tetrachloro-m-xylene (Surr)	87		44 - 114

Lab Sample ID: 180-80306-2 MSD
Matrix: Solid
Analysis Batch: 253474

Client Sample ID: W2-3
Prep Type: Total/NA
Prep Batch: 253333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1560	1680		ug/Kg	☼	107	46 - 122	5	23
PCB-1260	83		1560	1320		ug/Kg	☼	79	51 - 119	15	17

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	97		33 - 137
DCB Decachlorobiphenyl (Surr)	101		33 - 137
Tetrachloro-m-xylene (Surr)	92		44 - 114
Tetrachloro-m-xylene (Surr)	92		44 - 114

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-80306-6 MS — **Client Sample ID: W6-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 253474 — **Prep Batch: 253333**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1550	1450		ug/Kg	☼	93	46 - 122
PCB-1260	23		1550	1150		ug/Kg	☼	72	51 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*

Lab Sample ID: 180-80306-6 MSD — **Client Sample ID: W6-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 253474 — **Prep Batch: 253333**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1530	1310		ug/Kg	☼	86	46 - 122	10	23
PCB-1260	23		1530	1010		ug/Kg	☼	64	51 - 119	13	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*

Method: EPA 6010C - Metals (ICP)

Lab Sample ID: MB 180-252645/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 253875 — **Prep Batch: 252645**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.26	J	20	2.8	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Antimony	ND		1.0	0.34	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Arsenic	ND		1.0	0.28	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Barium	ND		20	1.1	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Beryllium	ND		0.40	0.023	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Cadmium	ND		0.50	0.036	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Calcium	ND		500	26	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Chromium	ND		0.50	0.12	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Cobalt	ND		5.0	0.29	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Copper	ND		2.5	0.17	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Iron	9.70	J	10	5.1	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Lead	ND		1.0	0.25	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Magnesium	ND		500	33	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Manganese	0.236	J	1.5	0.16	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Nickel	ND		4.0	0.25	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Potassium	ND		500	35	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Selenium	ND		1.0	0.52	mg/Kg		08/02/18 14:28	08/14/18 16:31	1

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-252645/1-A
Matrix: Solid
Analysis Batch: 253875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.11	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Sodium	ND		500	26	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Thallium	ND		2.0	0.21	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Vanadium	ND		5.0	0.70	mg/Kg		08/02/18 14:28	08/14/18 16:31	1
Zinc	ND		2.0	1.1	mg/Kg		08/02/18 14:28	08/14/18 16:31	1

Lab Sample ID: LCS 180-252645/2-A
Matrix: Solid
Analysis Batch: 253875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	199		mg/Kg		99	80 - 120
Antimony	50.0	49.2		mg/Kg		98	80 - 120
Arsenic	50.0	47.7		mg/Kg		95	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	4.82		mg/Kg		96	80 - 120
Cadmium	5.00	4.79		mg/Kg		96	80 - 120
Calcium	5000	4900		mg/Kg		98	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	48.7		mg/Kg		97	80 - 120
Copper	25.0	24.4		mg/Kg		98	80 - 120
Iron	100	99.5		mg/Kg		99	80 - 120
Lead	50.0	47.0		mg/Kg		94	80 - 120
Magnesium	5000	4830		mg/Kg		97	80 - 120
Manganese	50.0	47.3		mg/Kg		95	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Potassium	5000	4920		mg/Kg		98	80 - 120
Selenium	50.0	48.5		mg/Kg		97	80 - 120
Silver	5.00	4.86		mg/Kg		97	80 - 120
Sodium	5000	5040		mg/Kg		101	80 - 120
Thallium	50.0	46.1		mg/Kg		92	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	48.7		mg/Kg		97	80 - 120

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-254073/1-A
Matrix: Solid
Analysis Batch: 254261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 254073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/16/18 12:00	08/17/18 10:44	1

Lab Sample ID: LCS 180-254073/2-A
Matrix: Solid
Analysis Batch: 254261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 254073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.410	0.445		mg/Kg		109	80 - 120

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80306-1

Method: 2540G - SM 2540G

Lab Sample ID: 180-80306-11 DU
Matrix: Solid
Analysis Batch: 252630

Client Sample ID: W10-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.6			12.1		%				4	20
Percent Solids	88.4			87.9		%				0.6	20

Lab Sample ID: 180-80306-11 DU
Matrix: Solid
Analysis Batch: 252641

Client Sample ID: W10-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.9			14.0		%				6	20
Percent Solids	85.1			86.0		%				1	20

GC Semi VOA

Prep Batch: 253196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-1	W1-2	Total/NA	Solid	3541	
180-80306-3	W3-1	Total/NA	Solid	3541	
MB 180-253196/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-253196/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 253212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-1	W1-2	Total/NA	Solid	EPA 8082A	253295
180-80306-3	W3-1	Total/NA	Solid	EPA 8082A	253295
MB 180-253196/1-C	Method Blank	Total/NA	Solid	EPA 8082A	253295
LCS 180-253196/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	253295

Cleanup Batch: 253294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-1	W1-2	Total/NA	Solid	3665A	253196
180-80306-3	W3-1	Total/NA	Solid	3665A	253196
MB 180-253196/1-C	Method Blank	Total/NA	Solid	3665A	253196
LCS 180-253196/2-C	Lab Control Sample	Total/NA	Solid	3665A	253196

Cleanup Batch: 253295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-1	W1-2	Total/NA	Solid	3660B	253294
180-80306-3	W3-1	Total/NA	Solid	3660B	253294
MB 180-253196/1-C	Method Blank	Total/NA	Solid	3660B	253294
LCS 180-253196/2-C	Lab Control Sample	Total/NA	Solid	3660B	253294

Prep Batch: 253333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-2	W2-3	Total/NA	Solid	3541	
180-80306-4	W3-2	Total/NA	Solid	3541	
180-80306-5	W4-2	Total/NA	Solid	3541	
180-80306-6	W6-1	Total/NA	Solid	3541	
180-80306-7	W7-1	Total/NA	Solid	3541	
180-80306-8	W7-2	Total/NA	Solid	3541	
180-80306-9	W8-1	Total/NA	Solid	3541	
180-80306-10	W9-2	Total/NA	Solid	3541	
180-80306-11	W10-1	Total/NA	Solid	3541	
180-80306-12	W10-2	Total/NA	Solid	3541	
180-80306-13	W11-1	Total/NA	Solid	3541	
180-80306-14	W11-2	Total/NA	Solid	3541	
180-80306-15	W12-1	Total/NA	Solid	3541	
180-80306-16	W12-2	Total/NA	Solid	3541	
180-80306-17	W6-3	Total/NA	Solid	3541	
180-80306-18	DUP-1	Total/NA	Solid	3541	
180-80306-19	DUP-2	Total/NA	Solid	3541	
180-80306-20	DUP-3	Total/NA	Solid	3541	
MB 180-253333/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-253333/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-80306-2 MS	W2-3	Total/NA	Solid	3541	
180-80306-2 MSD	W2-3	Total/NA	Solid	3541	
180-80306-6 MS	W6-1	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 253333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-6 MSD	W6-1	Total/NA	Solid	3541	

Cleanup Batch: 253417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-2	W2-3	Total/NA	Solid	3665A	253333
180-80306-4	W3-2	Total/NA	Solid	3665A	253333
180-80306-5	W4-2	Total/NA	Solid	3665A	253333
180-80306-6	W6-1	Total/NA	Solid	3665A	253333
180-80306-7	W7-1	Total/NA	Solid	3665A	253333
180-80306-8	W7-2	Total/NA	Solid	3665A	253333
180-80306-9	W8-1	Total/NA	Solid	3665A	253333
180-80306-10	W9-2	Total/NA	Solid	3665A	253333
180-80306-11	W10-1	Total/NA	Solid	3665A	253333
180-80306-12	W10-2	Total/NA	Solid	3665A	253333
180-80306-13	W11-1	Total/NA	Solid	3665A	253333
180-80306-14	W11-2	Total/NA	Solid	3665A	253333
180-80306-15	W12-1	Total/NA	Solid	3665A	253333
180-80306-16	W12-2	Total/NA	Solid	3665A	253333
180-80306-17	W6-3	Total/NA	Solid	3665A	253333
180-80306-18	DUP-1	Total/NA	Solid	3665A	253333
180-80306-19	DUP-2	Total/NA	Solid	3665A	253333
180-80306-20	DUP-3	Total/NA	Solid	3665A	253333
MB 180-253333/1-C	Method Blank	Total/NA	Solid	3665A	253333
LCS 180-253333/2-C	Lab Control Sample	Total/NA	Solid	3665A	253333
180-80306-2 MS	W2-3	Total/NA	Solid	3665A	253333
180-80306-2 MSD	W2-3	Total/NA	Solid	3665A	253333
180-80306-6 MS	W6-1	Total/NA	Solid	3665A	253333
180-80306-6 MSD	W6-1	Total/NA	Solid	3665A	253333

Cleanup Batch: 253419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-2	W2-3	Total/NA	Solid	3660B	253417
180-80306-4	W3-2	Total/NA	Solid	3660B	253417
180-80306-5	W4-2	Total/NA	Solid	3660B	253417
180-80306-6	W6-1	Total/NA	Solid	3660B	253417
180-80306-7	W7-1	Total/NA	Solid	3660B	253417
180-80306-8	W7-2	Total/NA	Solid	3660B	253417
180-80306-9	W8-1	Total/NA	Solid	3660B	253417
180-80306-10	W9-2	Total/NA	Solid	3660B	253417
180-80306-11	W10-1	Total/NA	Solid	3660B	253417
180-80306-12	W10-2	Total/NA	Solid	3660B	253417
180-80306-13	W11-1	Total/NA	Solid	3660B	253417
180-80306-14	W11-2	Total/NA	Solid	3660B	253417
180-80306-15	W12-1	Total/NA	Solid	3660B	253417
180-80306-16	W12-2	Total/NA	Solid	3660B	253417
180-80306-17	W6-3	Total/NA	Solid	3660B	253417
180-80306-18	DUP-1	Total/NA	Solid	3660B	253417
180-80306-19	DUP-2	Total/NA	Solid	3660B	253417
180-80306-20	DUP-3	Total/NA	Solid	3660B	253417
MB 180-253333/1-C	Method Blank	Total/NA	Solid	3660B	253417
LCS 180-253333/2-C	Lab Control Sample	Total/NA	Solid	3660B	253417

GC Semi VOA (Continued)

Cleanup Batch: 253419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-2 MS	W2-3	Total/NA	Solid	3660B	253417
180-80306-2 MSD	W2-3	Total/NA	Solid	3660B	253417
180-80306-6 MS	W6-1	Total/NA	Solid	3660B	253417
180-80306-6 MSD	W6-1	Total/NA	Solid	3660B	253417

Analysis Batch: 253474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-2	W2-3	Total/NA	Solid	EPA 8082A	253419
180-80306-4	W3-2	Total/NA	Solid	EPA 8082A	253419
180-80306-5	W4-2	Total/NA	Solid	EPA 8082A	253419
180-80306-6	W6-1	Total/NA	Solid	EPA 8082A	253419
180-80306-7	W7-1	Total/NA	Solid	EPA 8082A	253419
180-80306-8	W7-2	Total/NA	Solid	EPA 8082A	253419
180-80306-9	W8-1	Total/NA	Solid	EPA 8082A	253419
180-80306-10	W9-2	Total/NA	Solid	EPA 8082A	253419
180-80306-11	W10-1	Total/NA	Solid	EPA 8082A	253419
180-80306-12	W10-2	Total/NA	Solid	EPA 8082A	253419
180-80306-13	W11-1	Total/NA	Solid	EPA 8082A	253419
180-80306-14	W11-2	Total/NA	Solid	EPA 8082A	253419
180-80306-15	W12-1	Total/NA	Solid	EPA 8082A	253419
180-80306-16	W12-2	Total/NA	Solid	EPA 8082A	253419
180-80306-17	W6-3	Total/NA	Solid	EPA 8082A	253419
180-80306-18	DUP-1	Total/NA	Solid	EPA 8082A	253419
180-80306-19	DUP-2	Total/NA	Solid	EPA 8082A	253419
180-80306-20	DUP-3	Total/NA	Solid	EPA 8082A	253419
MB 180-253333/1-C	Method Blank	Total/NA	Solid	EPA 8082A	253419
LCS 180-253333/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	253419
180-80306-2 MS	W2-3	Total/NA	Solid	EPA 8082A	253419
180-80306-2 MSD	W2-3	Total/NA	Solid	EPA 8082A	253419
180-80306-6 MS	W6-1	Total/NA	Solid	EPA 8082A	253419
180-80306-6 MSD	W6-1	Total/NA	Solid	EPA 8082A	253419

Metals

Prep Batch: 252645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-1	W1-2	Total/NA	Solid	3050B	
180-80306-3	W3-1	Total/NA	Solid	3050B	
180-80306-4	W3-2	Total/NA	Solid	3050B	
180-80306-11	W10-1	Total/NA	Solid	3050B	
180-80306-17	W6-3	Total/NA	Solid	3050B	
MB 180-252645/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-252645/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 253875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-1	W1-2	Total/NA	Solid	EPA 6010C	252645
180-80306-3	W3-1	Total/NA	Solid	EPA 6010C	252645
180-80306-4	W3-2	Total/NA	Solid	EPA 6010C	252645
180-80306-11	W10-1	Total/NA	Solid	EPA 6010C	252645

Metals (Continued)

Analysis Batch: 253875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-17	W6-3	Total/NA	Solid	EPA 6010C	252645
MB 180-252645/1-A	Method Blank	Total/NA	Solid	EPA 6010C	252645
LCS 180-252645/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010C	252645

Prep Batch: 254073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-1	W1-2	Total/NA	Solid	7471B	
180-80306-3	W3-1	Total/NA	Solid	7471B	
180-80306-4	W3-2	Total/NA	Solid	7471B	
180-80306-11	W10-1	Total/NA	Solid	7471B	
180-80306-17	W6-3	Total/NA	Solid	7471B	
MB 180-254073/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-254073/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 254261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-1	W1-2	Total/NA	Solid	EPA 7471B	254073
180-80306-3	W3-1	Total/NA	Solid	EPA 7471B	254073
180-80306-4	W3-2	Total/NA	Solid	EPA 7471B	254073
180-80306-11	W10-1	Total/NA	Solid	EPA 7471B	254073
180-80306-17	W6-3	Total/NA	Solid	EPA 7471B	254073
MB 180-254073/1-A	Method Blank	Total/NA	Solid	EPA 7471B	254073
LCS 180-254073/2-A	Lab Control Sample	Total/NA	Solid	EPA 7471B	254073

General Chemistry

Analysis Batch: 252630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-1	W1-2	Total/NA	Solid	2540G	
180-80306-2	W2-3	Total/NA	Solid	2540G	
180-80306-3	W3-1	Total/NA	Solid	2540G	
180-80306-4	W3-2	Total/NA	Solid	2540G	
180-80306-5	W4-2	Total/NA	Solid	2540G	
180-80306-6	W6-1	Total/NA	Solid	2540G	
180-80306-7	W7-1	Total/NA	Solid	2540G	
180-80306-8	W7-2	Total/NA	Solid	2540G	
180-80306-9	W8-1	Total/NA	Solid	2540G	
180-80306-10	W9-2	Total/NA	Solid	2540G	
180-80306-11	W10-1	Total/NA	Solid	2540G	
180-80306-11 DU	W10-1	Total/NA	Solid	2540G	

Analysis Batch: 252641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-12	W10-2	Total/NA	Solid	2540G	
180-80306-13	W11-1	Total/NA	Solid	2540G	
180-80306-14	W11-2	Total/NA	Solid	2540G	
180-80306-15	W12-1	Total/NA	Solid	2540G	
180-80306-16	W12-2	Total/NA	Solid	2540G	
180-80306-17	W6-3	Total/NA	Solid	2540G	
180-80306-18	DUP-1	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 252641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80306-19	DUP-2	Total/NA	Solid	2540G	
180-80306-20	DUP-3	Total/NA	Solid	2540G	
180-80306-11 DU	W10-1	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ~~Matthew Schallinger~~, George Wanjura, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: ~~Site~~ Western Slopes
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 2
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:			
City: Columbia	TAT Requested (days): ~~1 Day turnaround.~~ Standard			
State, Zip: MD 21044				
Phone:	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:			
Site: Former Sperry Remington Site - North	SSOW#:			

Analysis Requested

180-80306 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Field Filtered Sample (Yes or No)	8082A, PCBs	TAL Metals	Total Number of containers	Special Instructions/Note:
W1-3	7/27/18	1130	C	Solid	N	N	X	X		
W2-3		1120	C	Solid	N	Y	X			Perform MS/MSD1
W3-1		1055	C	Solid	N	N	X	X		
W3-2		1100	C	Solid	N	N	X	X		
W4-2		1050	C	Solid	N	N	X			
W6-1		1020	C	Solid	N	Y	X			Perform MS/MSD1
W7-1		1010	C	Solid	N	N	X			
W7-2		1015	C	Solid	N	N	X			
W8-1		1010	C	Solid	N	N	X			
W9-2		1005	C	Solid	N	N	X			
W10-1		0940	C	Water	N	N	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				8/1/18 900	TAL-IH
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

8/26/2018

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ~~Matthew Schellinger~~ George Wanjiru, Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: ~~1 of~~ Western Slopes
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 2

Company: Geosyntec Consultants, Inc.		Analysis Requested	Job #:
Address: 10211 Wincopin Circle, 4th Floor Columbia, MD 21044	Due Date Requested:		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Columbia	TAT Requested (days): ~~<1 Day turn~~around. Standard		
State, Zip: MD 21044			
Phone:	PO #: MN0832D		Other:
Email: akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM Phase 2	Project #:		
Site: Former Sperry Remington Site - North	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Filtered Sample (Y/N)	8082A, PCBs	TAL Metals											Special Instructions/Note:
W10-2	27/07/18	0945	C	Solid	N	N	X												
W11-1		0930	C	Solid	N	N	X												
W11-2		0935	C	Solid	N	N	X												
W12-1		0920	C	Solid	N	N	X												
W12-2		0915	C	Solid	N	N	X												
W6-3		1030	C	Solid	N	N	X	X											
DUP-1		-	C	Solid	N	N	X												
DUP-2		-	C	Solid	N	N	X												
DUP-3		-	C	Solid	N	N	X												
				Solid	N														
				Water	N														

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	7/31/2018/1900	Geosyntec		8/1/18 900	TA Pitt
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

8/26/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80306-1

Login Number: 80306
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	coc page 1 not relinquished
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80410-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/26/2018 11:41:27 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

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Job ID: 180-80410-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80410-1

Receipt
The samples were received on 8/3/2018 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.0º C and 4.6º C.

GC/MS VOA
Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 180-252802 recovered above the control limits for the following analyte: 1,4-dioxane. As the recovery was biased high in the LCS and 1,4-dioxane was not detected in the associated samples, the results were reported.

Method(s) 8260C: The recovery of surrogate 1,2-dichloroethane-d4 was 1% above the control limits in the laboratory control sample (LCS) for analytical batch 180-252802. As all sample surrogates were within the control limits, the results were reported.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-252802 was below criteria for the following analytes: chloromethane, dichlorodifluoromethane, and vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-252802 was above criteria for the following analytes: 1,4-dioxane, acetone, and trichlorofluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

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

GC Semi VOA
Method(s) 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: 0S1B 08022018 (180-80410-2). The surrogates were diluted out and elevated reporting limits (RLs) are provided.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253475 (CCV 180-253475/4) was above criteria for 1 peak for aroclor 1248 on column RTX-CLP1. The associated sample results for aroclor 1248 were reported from column RTX-CLP1 which met criteria.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253475 (CCVIS 180-253475/5) was above criteria for aroclor 1016 on column RTX-CLP1. As the CCV was high and aroclor 1016 was not detected in the associated sample, the results were reported.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253475 (CCVIS 180-253475/5) was above criteria for 1 peak for aroclor 1260 on column RTX-CLP1. This peak was not used in the quantitation of sample results for aroclor 1260.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253763 (CCVIS 180-253763/5) was below criteria for 2 peaks for aroclor 1260 on column RTX-CLP2. The associated sample results for aroclor 1260 were reported from column RTX-CLP1 which met criteria.

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.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80410-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80410-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
EPA 8260C	5035	Solid	Cyclohexane

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80410-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80410-1	0S1A 08022018	Solid	08/02/18 15:15	08/03/18 08:50
180-80410-2	0S1B 08022018	Solid	08/02/18 15:30	08/03/18 08:50
180-80410-3	0S1C 08022018	Solid	08/02/18 15:45	08/03/18 08:50

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80410-1

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
EPA 6010C	Metals (ICP)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3050B	Preparation, Metals	SW846	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
5035	Closed System Purge and Trap	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80410-1

Client Sample ID: 0S1A 08022018
Date Collected: 08/02/18 15:15
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252909	08/06/18 11:58	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 0S1A 08022018
Date Collected: 08/02/18 15:15
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-1
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3608 g	5 mL	252741	08/03/18 12:16	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	252802	08/04/18 16:42	PJJ	TAL PIT
	Instrument ID: CHHP10									
Total/NA	Prep	3541			15.0 g	20.0 mL	253320	08/09/18 14:25	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253412	08/10/18 10:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253414	08/10/18 10:57	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253457	08/10/18 22:46	CMR	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	253073	08/07/18 15:31	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254318	08/17/18 12:01	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.55 g	100.0 mL	254074	08/16/18 12:00	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 11:56	RSK	TAL PIT
	Instrument ID: K									

Client Sample ID: 0S1B 08022018
Date Collected: 08/02/18 15:30
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252909	08/06/18 11:58	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 0S1B 08022018
Date Collected: 08/02/18 15:30
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-2
Matrix: Solid
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3313 g	5 mL	252741	08/03/18 12:16	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	252802	08/04/18 17:08	PJJ	TAL PIT
	Instrument ID: CHHP10									
Total/NA	Prep	3541			15.0 g	20.0 mL	253320	08/09/18 14:25	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253412	08/10/18 10:56	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253414	08/10/18 10:57	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		40	1 mL	1.0 mL	253763	08/14/18 15:31	CMR	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80410-1

Client Sample ID: 0S1B 08022018

Date Collected: 08/02/18 15:30
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-2

Matrix: Solid
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.03 g	100 mL	253073	08/07/18 15:31	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254318	08/17/18 12:06	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100.0 mL	254074	08/16/18 12:00	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 11:58	RSK	TAL PIT
	Instrument ID: K									

Client Sample ID: 0S1C 08022018

Date Collected: 08/02/18 15:45
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252909	08/06/18 11:58	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 0S1C 08022018

Date Collected: 08/02/18 15:45
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-3

Matrix: Solid
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253337	08/09/18 16:30	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253420	08/10/18 11:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253421	08/10/18 11:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253475	08/11/18 07:55	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.02 g	100 mL	253073	08/07/18 15:31	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254318	08/17/18 12:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100.0 mL	254074	08/16/18 12:00	RSK	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254261	08/17/18 12:00	RSK	TAL PIT
	Instrument ID: K									

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80410-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

NAM = Nicole Marfisi

PJJ = Patrick Journet

RSK = Robert Kurtz

SAC = Shawn Clemente

Batch Type: Analysis

CMR = Carl Reagle

JMO = John Oravec

PJJ = Patrick Journet

RJG = Rob Good

RSK = Robert Kurtz

TAM = Tessa Mastalski

Client Sample ID: 0S1A 08022018
Date Collected: 08/02/18 15:15
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-1
Matrix: Solid
Percent Solids: 80.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14	J	23	3.6	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Benzene	ND		5.8	2.3	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Bromoform	ND		5.8	3.0	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Bromomethane	ND		5.8	5.2	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
2-Butanone (MEK)	ND		5.8	3.3	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Carbon disulfide	ND		5.8	3.5	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Carbon tetrachloride	ND		5.8	3.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Chlorobenzene	ND		5.8	1.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Chlorobromomethane	ND		5.8	2.2	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Chlorodibromomethane	ND		5.8	2.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Chloroethane	ND		5.8	3.0	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Chloroform	ND		5.8	2.4	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Chloromethane	ND		5.8	4.5	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
cis-1,2-Dichloroethene	ND		5.8	1.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
cis-1,3-Dichloropropene	ND		5.8	1.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Cyclohexane	ND		5.8	1.4	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,2-Dibromo-3-Chloropropane	ND		5.8	3.5	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,2-Dibromoethane	ND		5.8	3.2	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,2-Dichlorobenzene	ND		5.8	4.6	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,3-Dichlorobenzene	ND		5.8	1.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,4-Dichlorobenzene	ND		5.8	1.2	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Dichlorobromomethane	ND		5.8	2.7	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Dichlorodifluoromethane	ND		5.8	3.4	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,1-Dichloroethane	ND		5.8	2.1	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,2-Dichloroethane	ND		5.8	1.7	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,1-Dichloroethene	ND		5.8	3.3	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,2-Dichloroethene, Total	ND		12	4.6	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,2-Dichloropropane	ND		5.8	2.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,4-Dioxane	ND	*	1200	42	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Ethylbenzene	ND		5.8	2.5	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
2-Hexanone	ND		5.8	4.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Isopropylbenzene	ND		5.8	2.7	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Methyl acetate	ND		29	6.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Methylcyclohexane	ND		5.8	2.4	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Methylene Chloride	ND		5.8	2.7	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.8	2.1	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Methyl tert-butyl ether	ND		5.8	4.3	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
m-Xylene & p-Xylene	ND		5.8	2.2	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
o-Xylene	ND		5.8	2.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Styrene	ND		5.8	1.5	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,1,2,2-Tetrachloroethane	ND		5.8	3.4	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Tetrachloroethene	ND		5.8	2.3	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Toluene	ND		5.8	1.9	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
trans-1,2-Dichloroethene	ND		5.8	2.9	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
trans-1,3-Dichloropropene	ND		5.8	2.0	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,2,3-Trichlorobenzene	ND		5.8	2.4	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,2,4-Trichlorobenzene	ND		5.8	1.9	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,1,1-Trichloroethane	ND		5.8	2.9	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,1,2-Trichloroethane	ND		5.8	2.8	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1

Client Sample ID: 0S1A 08022018
Date Collected: 08/02/18 15:15
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-1
Matrix: Solid
Percent Solids: 80.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**3.3**	**J**	5.8	1.7	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Trichlorofluoromethane	ND		5.8	1.7	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.8	2.2	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Vinyl chloride	ND		5.8	4.2	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1
Xylenes, Total	ND		12	5.0	ug/Kg	☼	08/03/18 12:16	08/04/18 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 110*	*08/03/18 12:16*	*08/04/18 16:42*	*1*
Dibromofluoromethane (Surr)	*95*		*74 - 114*	*08/03/18 12:16*	*08/04/18 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*69 - 110*	*08/03/18 12:16*	*08/04/18 16:42*	*1*
Toluene-d8 (Surr)	*91*		*83 - 124*	*08/03/18 12:16*	*08/04/18 16:42*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.7	ug/Kg	☼	08/09/18 14:25	08/10/18 22:46	1
PCB-1221	ND		21	13	ug/Kg	☼	08/09/18 14:25	08/10/18 22:46	1
PCB-1232	ND		21	12	ug/Kg	☼	08/09/18 14:25	08/10/18 22:46	1
PCB-1242	ND		21	12	ug/Kg	☼	08/09/18 14:25	08/10/18 22:46	1
PCB-1248	**59**		21	16	ug/Kg	☼	08/09/18 14:25	08/10/18 22:46	1
PCB-1254	ND		21	14	ug/Kg	☼	08/09/18 14:25	08/10/18 22:46	1
PCB-1260	ND		21	5.9	ug/Kg	☼	08/09/18 14:25	08/10/18 22:46	1
PCB-1262	ND		21	14	ug/Kg	☼	08/09/18 14:25	08/10/18 22:46	1
PCB-1268	ND		21	10	ug/Kg	☼	08/09/18 14:25	08/10/18 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*08/09/18 14:25*	*08/10/18 22:46*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*08/09/18 14:25*	*08/10/18 22:46*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*08/09/18 14:25*	*08/10/18 22:46*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*08/09/18 14:25*	*08/10/18 22:46*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3400**		25	3.6	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Antimony	**0.80**	**J**	1.3	0.43	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Arsenic	**25**		1.3	0.35	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Barium	**370**		25	1.4	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Beryllium	**0.53**		0.51	0.029	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Cadmium	**0.44**	**J**	0.63	0.046	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Calcium	**4700**		630	33	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Chromium	**15**	**B**	0.63	0.15	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Cobalt	**3.6**	**J**	6.3	0.37	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Copper	**98**		3.2	0.21	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Iron	**16000**		13	6.4	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Lead	**610**		1.3	0.31	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Magnesium	**630**		630	42	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Manganese	**120**		1.9	0.21	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Nickel	**45**		5.1	0.31	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Potassium	**380**	**J**	630	44	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Selenium	**1.3**		1.3	0.65	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Silver	ND		0.63	0.13	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1

Client Sample ID: 0S1A 08022018

Lab Sample ID: 180-80410-1
Date Collected: 08/02/18 15:15
Matrix: Solid
Date Received: 08/03/18 08:50
Percent Solids: 80.7

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	220	J	630	33	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Thallium	0.29	J	2.5	0.26	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Vanadium	14		6.3	0.88	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1
Zinc	520		2.5	1.4	mg/Kg	☼	08/07/18 15:31	08/17/18 12:01	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.045	0.010	mg/Kg	☼	08/16/18 12:00	08/17/18 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.3		0.1	0.1	%			08/06/18 11:58	1
Percent Solids	80.7		0.1	0.1	%			08/06/18 11:58	1

Client Sample ID: 0S1B 08022018

Lab Sample ID: 180-80410-2
Date Collected: 08/02/18 15:30
Matrix: Solid
Date Received: 08/03/18 08:50
Percent Solids: 85.0

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	78		22	3.5	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Benzene	ND		5.5	2.2	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Bromoform	ND		5.5	2.9	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Bromomethane	ND		5.5	5.0	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
2-Butanone (MEK)	ND		5.5	3.2	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Carbon disulfide	ND		5.5	3.3	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Carbon tetrachloride	ND		5.5	3.7	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Chlorobenzene	ND		5.5	1.7	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Chlorobromomethane	ND		5.5	2.1	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Chlorodibromomethane	ND		5.5	2.7	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Chloroethane	ND		5.5	2.9	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Chloroform	ND		5.5	2.3	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Chloromethane	ND		5.5	4.2	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
cis-1,2-Dichloroethene	ND		5.5	1.7	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
cis-1,3-Dichloropropene	ND		5.5	1.8	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Cyclohexane	ND		5.5	1.3	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,2-Dibromo-3-Chloropropane	ND		5.5	3.4	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,2-Dibromoethane	ND		5.5	3.0	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,2-Dichlorobenzene	ND		5.5	4.4	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,3-Dichlorobenzene	ND		5.5	1.8	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,4-Dichlorobenzene	ND		5.5	1.1	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Dichlorobromomethane	ND		5.5	2.6	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Dichlorodifluoromethane	ND		5.5	3.2	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,1-Dichloroethane	ND		5.5	2.0	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,2-Dichloroethane	ND		5.5	1.6	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,1-Dichloroethene	ND		5.5	3.1	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,2-Dichloroethene, Total	ND		11	4.4	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,2-Dichloropropane	ND		5.5	2.7	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,4-Dioxane	ND	*	1100	40	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Ethylbenzene	ND		5.5	2.4	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1

Client Sample ID: 0S1B 08022018
Date Collected: 08/02/18 15:30
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-2
Matrix: Solid
Percent Solids: 85.0

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.5	4.6	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Isopropylbenzene	ND		5.5	2.6	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Methyl acetate	ND		28	6.5	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Methylcyclohexane	ND		5.5	2.3	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Methylene Chloride	ND		5.5	2.6	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.5	2.0	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Methyl tert-butyl ether	ND		5.5	4.1	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
m-Xylene & p-Xylene	ND		5.5	2.1	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
o-Xylene	ND		5.5	2.7	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Styrene	ND		5.5	1.5	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,1,2,2-Tetrachloroethane	ND		5.5	3.3	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Tetrachloroethene	ND		5.5	2.2	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Toluene	ND		5.5	1.9	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
trans-1,2-Dichloroethene	ND		5.5	2.8	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
trans-1,3-Dichloropropene	ND		5.5	1.9	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,2,3-Trichlorobenzene	ND		5.5	2.3	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,2,4-Trichlorobenzene	ND		5.5	1.8	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,1,1-Trichloroethane	ND		5.5	2.8	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,1,2-Trichloroethane	ND		5.5	2.7	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Trichloroethene	**2.5**	**J**	5.5	1.7	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Trichlorofluoromethane	ND		5.5	1.6	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5	2.1	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Vinyl chloride	ND		5.5	4.0	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1
Xylenes, Total	ND		11	4.7	ug/Kg	☼	08/03/18 12:16	08/04/18 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 110*	*08/03/18 12:16*	*08/04/18 17:08*	*1*
Dibromofluoromethane (Surr)	*92*		*74 - 114*	*08/03/18 12:16*	*08/04/18 17:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*69 - 110*	*08/03/18 12:16*	*08/04/18 17:08*	*1*
Toluene-d8 (Surr)	*84*		*83 - 124*	*08/03/18 12:16*	*08/04/18 17:08*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		780	250	ug/Kg	☼	08/09/18 14:25	08/14/18 15:31	40
PCB-1221	ND		780	510	ug/Kg	☼	08/09/18 14:25	08/14/18 15:31	40
PCB-1232	ND		780	460	ug/Kg	☼	08/09/18 14:25	08/14/18 15:31	40
PCB-1242	ND		780	470	ug/Kg	☼	08/09/18 14:25	08/14/18 15:31	40
PCB-1248	**120000**		780	620	ug/Kg	☼	08/09/18 14:25	08/14/18 15:31	40
PCB-1254	**59000**		780	540	ug/Kg	☼	08/09/18 14:25	08/14/18 15:31	40
PCB-1260	**4400**		780	220	ug/Kg	☼	08/09/18 14:25	08/14/18 15:31	40
PCB-1262	ND		780	550	ug/Kg	☼	08/09/18 14:25	08/14/18 15:31	40
PCB-1268	ND		780	380	ug/Kg	☼	08/09/18 14:25	08/14/18 15:31	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*08/09/18 14:25*	*08/14/18 15:31*	*40*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*08/09/18 14:25*	*08/14/18 15:31*	*40*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*08/09/18 14:25*	*08/14/18 15:31*	*40*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*08/09/18 14:25*	*08/14/18 15:31*	*40*

Client Sample ID: 0S1B 08022018

Lab Sample ID: 180-80410-2
Date Collected: 08/02/18 15:30
Matrix: Solid
Date Received: 08/03/18 08:50
Percent Solids: 85.0

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6600		23	3.3	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Antimony	2.2		1.1	0.39	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Arsenic	14		1.1	0.32	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Barium	240		23	1.2	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Beryllium	0.44	J	0.46	0.026	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Cadmium	0.81		0.57	0.042	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Calcium	10000		570	30	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Chromium	75	B	0.57	0.14	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Cobalt	8.5		5.7	0.34	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Copper	240		2.9	0.19	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Iron	37000		11	5.8	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Lead	340		1.1	0.28	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Magnesium	2000		570	38	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Manganese	450		1.7	0.19	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Nickel	340		4.6	0.28	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Potassium	670		570	40	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Selenium	1.1		1.1	0.59	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Silver	0.15	J	0.57	0.12	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Sodium	600		570	30	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Thallium	ND		2.3	0.24	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Vanadium	17		5.7	0.80	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1
Zinc	290		2.3	1.2	mg/Kg	☼	08/07/18 15:31	08/17/18 12:06	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.039	0.0087	mg/Kg	☼	08/16/18 12:00	08/17/18 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.0		0.1	0.1	%			08/06/18 11:58	1
Percent Solids	85.0		0.1	0.1	%			08/06/18 11:58	1

Client Sample ID: 0S1C 08022018

Lab Sample ID: 180-80410-3
Date Collected: 08/02/18 15:45
Matrix: Solid
Date Received: 08/03/18 08:50
Percent Solids: 87.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/09/18 16:30	08/11/18 07:55	1
PCB-1221	ND		19	12	ug/Kg	☼	08/09/18 16:30	08/11/18 07:55	1
PCB-1232	ND		19	11	ug/Kg	☼	08/09/18 16:30	08/11/18 07:55	1
PCB-1242	ND		19	11	ug/Kg	☼	08/09/18 16:30	08/11/18 07:55	1
PCB-1248	760		19	15	ug/Kg	☼	08/09/18 16:30	08/11/18 07:55	1
PCB-1254	220		19	13	ug/Kg	☼	08/09/18 16:30	08/11/18 07:55	1
PCB-1260	42		19	5.3	ug/Kg	☼	08/09/18 16:30	08/11/18 07:55	1
PCB-1262	ND		19	13	ug/Kg	☼	08/09/18 16:30	08/11/18 07:55	1
PCB-1268	ND		19	9.0	ug/Kg	☼	08/09/18 16:30	08/11/18 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/09/18 16:30*	*08/11/18 07:55*	*1*

Client Sample ID: 0S1C 08022018
Date Collected: 08/02/18 15:45
Date Received: 08/03/18 08:50

Lab Sample ID: 180-80410-3
Matrix: Solid
Percent Solids: 87.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*08/09/18 16:30*	*08/11/18 07:55*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*08/09/18 16:30*	*08/11/18 07:55*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*	*08/09/18 16:30*	*08/11/18 07:55*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8600**		22	3.2	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Antimony	ND		1.1	0.38	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Arsenic	**7.0**		1.1	0.31	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Barium	**94**		22	1.2	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Beryllium	**0.37**	**J**	0.45	0.026	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Cadmium	ND		0.56	0.041	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Calcium	**1800**		560	29	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Chromium	**38**	**B**	0.56	0.14	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Cobalt	**6.0**		5.6	0.33	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Copper	**23**		2.8	0.19	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Iron	**23000**		11	5.6	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Lead	**17**		1.1	0.28	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Magnesium	**2200**		560	37	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Manganese	**330**		1.7	0.18	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Nickel	**22**		4.5	0.28	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Potassium	**880**		560	39	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Selenium	ND		1.1	0.58	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Silver	ND		0.56	0.12	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Sodium	**530**	**J**	560	29	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Thallium	ND		2.2	0.23	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Vanadium	**14**		5.6	0.78	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1
Zinc	**69**		2.2	1.2	mg/Kg	☼	08/07/18 15:31	08/17/18 12:11	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.040	0.0089	mg/Kg	☼	08/16/18 12:00	08/17/18 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.3**		0.1	0.1	%			08/06/18 11:58	1
Percent Solids	**87.7**		0.1	0.1	%			08/06/18 11:58	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-252802/11
Matrix: Solid
Analysis Batch: 252802

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	3.2	ug/Kg			08/04/18 14:34	1
Benzene	ND		5.0	2.0	ug/Kg			08/04/18 14:34	1
Bromoform	ND		5.0	2.6	ug/Kg			08/04/18 14:34	1
Bromomethane	ND		5.0	4.5	ug/Kg			08/04/18 14:34	1
2-Butanone (MEK)	ND		5.0	2.9	ug/Kg			08/04/18 14:34	1
Carbon disulfide	ND		5.0	3.0	ug/Kg			08/04/18 14:34	1
Carbon tetrachloride	ND		5.0	3.3	ug/Kg			08/04/18 14:34	1
Chlorobenzene	ND		5.0	1.6	ug/Kg			08/04/18 14:34	1
Chlorobromomethane	ND		5.0	1.9	ug/Kg			08/04/18 14:34	1
Chlorodibromomethane	ND		5.0	2.4	ug/Kg			08/04/18 14:34	1
Chloroethane	ND		5.0	2.6	ug/Kg			08/04/18 14:34	1
Chloroform	ND		5.0	2.1	ug/Kg			08/04/18 14:34	1
Chloromethane	ND		5.0	3.9	ug/Kg			08/04/18 14:34	1
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/Kg			08/04/18 14:34	1
cis-1,3-Dichloropropene	ND		5.0	1.6	ug/Kg			08/04/18 14:34	1
Cyclohexane	ND		5.0	1.2	ug/Kg			08/04/18 14:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0	3.1	ug/Kg			08/04/18 14:34	1
1,2-Dibromoethane	ND		5.0	2.7	ug/Kg			08/04/18 14:34	1
1,2-Dichlorobenzene	ND		5.0	4.0	ug/Kg			08/04/18 14:34	1
1,3-Dichlorobenzene	ND		5.0	1.6	ug/Kg			08/04/18 14:34	1
1,4-Dichlorobenzene	ND		5.0	1.0	ug/Kg			08/04/18 14:34	1
Dichlorobromomethane	ND		5.0	2.4	ug/Kg			08/04/18 14:34	1
Dichlorodifluoromethane	ND		5.0	2.9	ug/Kg			08/04/18 14:34	1
1,1-Dichloroethane	ND		5.0	1.8	ug/Kg			08/04/18 14:34	1
1,2-Dichloroethane	ND		5.0	1.5	ug/Kg			08/04/18 14:34	1
1,1-Dichloroethene	ND		5.0	2.9	ug/Kg			08/04/18 14:34	1
1,2-Dichloroethene, Total	ND		10	4.0	ug/Kg			08/04/18 14:34	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			08/04/18 14:34	1
1,4-Dioxane	ND		1000	37	ug/Kg			08/04/18 14:34	1
Ethylbenzene	ND		5.0	2.2	ug/Kg			08/04/18 14:34	1
2-Hexanone	ND		5.0	4.2	ug/Kg			08/04/18 14:34	1
Isopropylbenzene	ND		5.0	2.3	ug/Kg			08/04/18 14:34	1
Methyl acetate	ND		25	5.9	ug/Kg			08/04/18 14:34	1
Methylcyclohexane	ND		5.0	2.1	ug/Kg			08/04/18 14:34	1
Methylene Chloride	ND		5.0	2.4	ug/Kg			08/04/18 14:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.9	ug/Kg			08/04/18 14:34	1
Methyl tert-butyl ether	ND		5.0	3.7	ug/Kg			08/04/18 14:34	1
m-Xylene & p-Xylene	ND		5.0	1.9	ug/Kg			08/04/18 14:34	1
o-Xylene	ND		5.0	2.4	ug/Kg			08/04/18 14:34	1
Styrene	ND		5.0	1.3	ug/Kg			08/04/18 14:34	1
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/Kg			08/04/18 14:34	1
Tetrachloroethene	ND		5.0	2.0	ug/Kg			08/04/18 14:34	1
Toluene	ND		5.0	1.7	ug/Kg			08/04/18 14:34	1
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/Kg			08/04/18 14:34	1
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/Kg			08/04/18 14:34	1
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/Kg			08/04/18 14:34	1
1,2,4-Trichlorobenzene	ND		5.0	1.6	ug/Kg			08/04/18 14:34	1
1,1,1-Trichloroethane	ND		5.0	2.5	ug/Kg			08/04/18 14:34	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-252802/11
Matrix: Solid
Analysis Batch: 252802

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		5.0	2.4	ug/Kg			08/04/18 14:34	1
Trichloroethene	ND		5.0	1.5	ug/Kg			08/04/18 14:34	1
Trichlorofluoromethane	ND		5.0	1.5	ug/Kg			08/04/18 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.9	ug/Kg			08/04/18 14:34	1
Vinyl chloride	ND		5.0	3.7	ug/Kg			08/04/18 14:34	1
Xylenes, Total	ND		10	4.3	ug/Kg			08/04/18 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 110*		*08/04/18 14:34*	*1*
Dibromofluoromethane (Surr)	*95*		*74 - 114*		*08/04/18 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*69 - 110*		*08/04/18 14:34*	*1*
Toluene-d8 (Surr)	*84*		*83 - 124*		*08/04/18 14:34*	*1*

Lab Sample ID: LCS 180-252802/9
Matrix: Solid
Analysis Batch: 252802

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	55.9		ug/Kg		140	36 - 150
Benzene	40.0	35.3		ug/Kg		88	78 - 118
Bromoform	40.0	43.5		ug/Kg		109	56 - 150
Bromomethane	40.0	32.2		ug/Kg		81	34 - 150
2-Butanone (MEK)	40.0	49.0		ug/Kg		123	30 - 150
Carbon disulfide	40.0	37.4		ug/Kg		94	66 - 128
Carbon tetrachloride	40.0	36.6		ug/Kg		91	60 - 137
Chlorobenzene	40.0	34.1		ug/Kg		85	78 - 118
Chlorobromomethane	40.0	39.8		ug/Kg		99	72 - 121
Chlorodibromomethane	40.0	38.1		ug/Kg		95	58 - 140
Chloroethane	40.0	29.9		ug/Kg		75	37 - 150
Chloroform	40.0	36.4		ug/Kg		91	68 - 124
Chloromethane	40.0	26.2		ug/Kg		66	46 - 150
cis-1,2-Dichloroethene	40.0	37.2		ug/Kg		93	71 - 120
cis-1,3-Dichloropropene	40.0	35.8		ug/Kg		90	70 - 131
Cyclohexane	40.0	32.5		ug/Kg		81	70 - 133
1,2-Dibromo-3-Chloropropane	40.0	48.1		ug/Kg		120	54 - 129
1,2-Dibromoethane	40.0	40.6		ug/Kg		101	78 - 118
1,2-Dichlorobenzene	40.0	34.2		ug/Kg		86	78 - 118
1,3-Dichlorobenzene	40.0	33.5		ug/Kg		84	78 - 118
1,4-Dichlorobenzene	40.0	33.7		ug/Kg		84	78 - 118
Dichlorobromomethane	40.0	37.7		ug/Kg		94	66 - 136
Dichlorodifluoromethane	40.0	27.6		ug/Kg		69	16 - 150
1,1-Dichloroethane	40.0	35.0		ug/Kg		88	67 - 129
1,2-Dichloroethane	40.0	40.8		ug/Kg		102	67 - 123
1,1-Dichloroethene	40.0	40.5		ug/Kg		101	59 - 128
1,2-Dichloroethene, Total	80.0	72.8		ug/Kg		91	71 - 121
1,2-Dichloropropane	40.0	34.2		ug/Kg		86	80 - 121
1,4-Dioxane	800	1160	*	ug/Kg		145	51 - 138
Ethylbenzene	40.0	34.1		ug/Kg		85	78 - 118

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-252802/9
Matrix: Solid
Analysis Batch: 252802

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	40.0	51.7		ug/Kg		129	36 - 150
Isopropylbenzene	40.0	34.6		ug/Kg		86	76 - 123
Methyl acetate	80.0	96.6		ug/Kg		121	64 - 140
Methylcyclohexane	40.0	34.8		ug/Kg		87	75 - 124
Methylene Chloride	40.0	38.7		ug/Kg		97	68 - 120
4-Methyl-2-pentanone (MIBK)	40.0	42.8		ug/Kg		107	62 - 145
Methyl tert-butyl ether	40.0	42.2		ug/Kg		106	73 - 121
m-Xylene & p-Xylene	40.0	34.2		ug/Kg		86	78 - 118
o-Xylene	40.0	34.5		ug/Kg		86	78 - 118
Styrene	40.0	35.5		ug/Kg		89	79 - 119
1,1,2,2-Tetrachloroethane	40.0	41.6		ug/Kg		104	71 - 125
Tetrachloroethene	40.0	34.1		ug/Kg		85	78 - 118
Toluene	40.0	33.4		ug/Kg		84	79 - 121
trans-1,2-Dichloroethene	40.0	35.6		ug/Kg		89	71 - 123
trans-1,3-Dichloropropene	40.0	38.0		ug/Kg		95	62 - 133
1,2,3-Trichlorobenzene	40.0	36.3		ug/Kg		91	69 - 131
1,2,4-Trichlorobenzene	40.0	36.0		ug/Kg		90	65 - 135
1,1,1-Trichloroethane	40.0	37.1		ug/Kg		93	69 - 135
1,1,2-Trichloroethane	40.0	37.5		ug/Kg		94	78 - 118
Trichloroethene	40.0	35.4		ug/Kg		88	76 - 120
Trichlorofluoromethane	40.0	45.4		ug/Kg		114	25 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	39.3		ug/Kg		98	61 - 137
Vinyl chloride	40.0	27.8		ug/Kg		70	53 - 148
Xylenes, Total	80.0	68.7		ug/Kg		86	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 110*
Dibromofluoromethane (Surr)	*101*		*74 - 114*
1,2-Dichloroethane-d4 (Surr)	*111*	*X*	*69 - 110*
Toluene-d8 (Surr)	*90*		*83 - 124*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-253320/1-A
Matrix: Solid
Analysis Batch: 253457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/09/18 14:25	08/10/18 17:11	1
PCB-1221	ND		17	11	ug/Kg		08/09/18 14:25	08/10/18 17:11	1
PCB-1232	ND		17	9.9	ug/Kg		08/09/18 14:25	08/10/18 17:11	1
PCB-1242	ND		17	10	ug/Kg		08/09/18 14:25	08/10/18 17:11	1
PCB-1248	ND		17	13	ug/Kg		08/09/18 14:25	08/10/18 17:11	1
PCB-1254	ND		17	11	ug/Kg		08/09/18 14:25	08/10/18 17:11	1
PCB-1260	ND		17	4.7	ug/Kg		08/09/18 14:25	08/10/18 17:11	1
PCB-1262	ND		17	12	ug/Kg		08/09/18 14:25	08/10/18 17:11	1
PCB-1268	ND		17	8.1	ug/Kg		08/09/18 14:25	08/10/18 17:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	105		33 - 137	08/09/18 14:25	08/10/18 17:11	1
DCB Decachlorobiphenyl (Surr)	101		33 - 137	08/09/18 14:25	08/10/18 17:11	1
Tetrachloro-m-xylene (Surr)	110		44 - 114	08/09/18 14:25	08/10/18 17:11	1
Tetrachloro-m-xylene (Surr)	104		44 - 114	08/09/18 14:25	08/10/18 17:11	1

Lab Sample ID: LCS 180-253320/2-A
Matrix: Solid
Analysis Batch: 253457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253320

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1260		ug/Kg		95	46 - 122		
PCB-1260			1330	1190		ug/Kg		89	51 - 119		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	95		33 - 137
DCB Decachlorobiphenyl (Surr)	90		33 - 137
Tetrachloro-m-xylene (Surr)	93		44 - 114
Tetrachloro-m-xylene (Surr)	85		44 - 114

Lab Sample ID: MB 180-253337/1-C
Matrix: Solid
Analysis Batch: 253475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/09/18 16:30	08/11/18 07:36	1
PCB-1221	ND		17	11	ug/Kg		08/09/18 16:30	08/11/18 07:36	1
PCB-1232	ND		17	9.9	ug/Kg		08/09/18 16:30	08/11/18 07:36	1
PCB-1242	ND		17	10	ug/Kg		08/09/18 16:30	08/11/18 07:36	1
PCB-1248	ND		17	13	ug/Kg		08/09/18 16:30	08/11/18 07:36	1
PCB-1254	ND		17	11	ug/Kg		08/09/18 16:30	08/11/18 07:36	1
PCB-1260	ND		17	4.7	ug/Kg		08/09/18 16:30	08/11/18 07:36	1
PCB-1262	ND		17	12	ug/Kg		08/09/18 16:30	08/11/18 07:36	1
PCB-1268	ND		17	8.1	ug/Kg		08/09/18 16:30	08/11/18 07:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	104		33 - 137	08/09/18 16:30	08/11/18 07:36	1
DCB Decachlorobiphenyl (Surr)	94		33 - 137	08/09/18 16:30	08/11/18 07:36	1
Tetrachloro-m-xylene (Surr)	93		44 - 114	08/09/18 16:30	08/11/18 07:36	1
Tetrachloro-m-xylene (Surr)	100		44 - 114	08/09/18 16:30	08/11/18 07:36	1

Lab Sample ID: LCS 180-253337/2-C
Matrix: Solid
Analysis Batch: 253475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253337

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1290		ug/Kg		96	46 - 122		
PCB-1260			1330	1250		ug/Kg		94	51 - 119		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	95		33 - 137
DCB Decachlorobiphenyl (Surr)	90		33 - 137
Tetrachloro-m-xylene (Surr)	88		44 - 114
Tetrachloro-m-xylene (Surr)	93		44 - 114

Method: EPA 6010C - Metals (ICP)

Lab Sample ID: MB 180-253073/1-A
Matrix: Solid
Analysis Batch: 254318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	2.8	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Antimony	ND		1.0	0.34	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Arsenic	ND		1.0	0.28	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Barium	ND		20	1.1	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Beryllium	ND		0.40	0.023	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Cadmium	ND		0.50	0.036	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Calcium	ND		500	26	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Chromium	0.129	J	0.50	0.12	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Cobalt	ND		5.0	0.29	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Copper	ND		2.5	0.17	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Iron	ND		10	5.1	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Lead	ND		1.0	0.25	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Magnesium	ND		500	33	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Manganese	ND		1.5	0.16	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Nickel	ND		4.0	0.25	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Potassium	ND		500	35	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Selenium	ND		1.0	0.52	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Silver	ND		0.50	0.11	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Sodium	ND		500	26	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Thallium	ND		2.0	0.21	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Vanadium	ND		5.0	0.70	mg/Kg		08/07/18 15:31	08/17/18 09:38	1
Zinc	ND		2.0	1.1	mg/Kg		08/07/18 15:31	08/17/18 09:38	1

Lab Sample ID: LCS 180-253073/2-A
Matrix: Solid
Analysis Batch: 254318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	200		mg/Kg		100	80 - 120
Antimony	50.0	49.6		mg/Kg		99	80 - 120
Arsenic	50.0	49.3		mg/Kg		99	80 - 120
Barium	200	200		mg/Kg		100	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	5.11		mg/Kg		102	80 - 120
Calcium	5000	5040		mg/Kg		101	80 - 120
Chromium	20.0	19.9		mg/Kg		99	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	25.0	25.4		mg/Kg		102	80 - 120
Iron	100	101		mg/Kg		101	80 - 120
Lead	50.0	48.4		mg/Kg		97	80 - 120
Magnesium	5000	4970		mg/Kg		99	80 - 120
Manganese	50.0	49.8		mg/Kg		100	80 - 120
Nickel	50.0	49.5		mg/Kg		99	80 - 120
Potassium	5000	4840		mg/Kg		97	80 - 120
Selenium	50.0	50.4		mg/Kg		101	80 - 120
Silver	5.00	5.04		mg/Kg		101	80 - 120
Sodium	5000	5050		mg/Kg		101	80 - 120
Thallium	50.0	47.6		mg/Kg		95	80 - 120

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-253073/2-A
Matrix: Solid
Analysis Batch: 254318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	50.0	49.4		mg/Kg		99	80 - 120
Zinc	50.0	49.0		mg/Kg		98	80 - 120

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-254074/1-A
Matrix: Solid
Analysis Batch: 254261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 254074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.032	0.0073	mg/Kg		08/16/18 12:00	08/17/18 11:40	1

Lab Sample ID: LCS 180-254074/2-A
Matrix: Solid
Analysis Batch: 254261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 254074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.410	0.446		mg/Kg		109	80 - 120

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80410-1

GC/MS VOA

Prep Batch: 252741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	5035	
180-80410-2	0S1B 08022018	Total/NA	Solid	5035	

Analysis Batch: 252802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	EPA 8260C	252741
180-80410-2	0S1B 08022018	Total/NA	Solid	EPA 8260C	252741
MB 180-252802/11	Method Blank	Total/NA	Solid	EPA 8260C	
LCS 180-252802/9	Lab Control Sample	Total/NA	Solid	EPA 8260C	

GC Semi VOA

Prep Batch: 253320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	3541	
180-80410-2	0S1B 08022018	Total/NA	Solid	3541	
MB 180-253320/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-253320/2-A	Lab Control Sample	Total/NA	Solid	3541	

Prep Batch: 253337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-3	0S1C 08022018	Total/NA	Solid	3541	
MB 180-253337/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-253337/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 253412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	3665A	253320
180-80410-2	0S1B 08022018	Total/NA	Solid	3665A	253320

Cleanup Batch: 253414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	3660B	253412
180-80410-2	0S1B 08022018	Total/NA	Solid	3660B	253412

Cleanup Batch: 253420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-3	0S1C 08022018	Total/NA	Solid	3665A	253337
MB 180-253337/1-C	Method Blank	Total/NA	Solid	3665A	253337
LCS 180-253337/2-C	Lab Control Sample	Total/NA	Solid	3665A	253337

Cleanup Batch: 253421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-3	0S1C 08022018	Total/NA	Solid	3660B	253420
MB 180-253337/1-C	Method Blank	Total/NA	Solid	3660B	253420
LCS 180-253337/2-C	Lab Control Sample	Total/NA	Solid	3660B	253420

Analysis Batch: 253457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	EPA 8082A	253414

GC Semi VOA (Continued)

Analysis Batch: 253457 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-253320/1-A	Method Blank	Total/NA	Solid	EPA 8082A	253320
LCS 180-253320/2-A	Lab Control Sample	Total/NA	Solid	EPA 8082A	253320

Analysis Batch: 253475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-3	0S1C 08022018	Total/NA	Solid	EPA 8082A	253421
MB 180-253337/1-C	Method Blank	Total/NA	Solid	EPA 8082A	253421
LCS 180-253337/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	253421

Analysis Batch: 253763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-2	0S1B 08022018	Total/NA	Solid	EPA 8082A	253414

Metals

Prep Batch: 253073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	3050B	
180-80410-2	0S1B 08022018	Total/NA	Solid	3050B	
180-80410-3	0S1C 08022018	Total/NA	Solid	3050B	
MB 180-253073/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-253073/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 254074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	7471B	
180-80410-2	0S1B 08022018	Total/NA	Solid	7471B	
180-80410-3	0S1C 08022018	Total/NA	Solid	7471B	
MB 180-254074/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-254074/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 254261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	EPA 7471B	254074
180-80410-2	0S1B 08022018	Total/NA	Solid	EPA 7471B	254074
180-80410-3	0S1C 08022018	Total/NA	Solid	EPA 7471B	254074
MB 180-254074/1-A	Method Blank	Total/NA	Solid	EPA 7471B	254074
LCS 180-254074/2-A	Lab Control Sample	Total/NA	Solid	EPA 7471B	254074

Analysis Batch: 254318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	EPA 6010C	253073
180-80410-2	0S1B 08022018	Total/NA	Solid	EPA 6010C	253073
180-80410-3	0S1C 08022018	Total/NA	Solid	EPA 6010C	253073
MB 180-253073/1-A	Method Blank	Total/NA	Solid	EPA 6010C	253073
LCS 180-253073/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010C	253073

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80410-1

General Chemistry

Analysis Batch: 252909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80410-1	0S1A 08022018	Total/NA	Solid	2540G	
180-80410-2	0S1B 08022018	Total/NA	Solid	2540G	
180-80410-3	0S1C 08022018	Total/NA	Solid	2540G	

Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

testAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: Oil Skimmer 1
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days): Standard Turns			
State, Zip: MD, 21044				
Phone: (202) 550-7724	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TAL metals ~~+ Cyanide~~	8082A PCBs	8260C VOA select list	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
OS1A 08022018	08/02/2018	1515	C/G	Solid	N	N	X	X	X	7	
OS1B 08022018	↓	1530	C/G	Solid	N	N	X	X	X	7	
OS1C 08022018	↓	1545	G	Solid	N	N	X	X		3	
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

180-80410 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	8/2/2018 1900	Geosyntec		8/3/18 850	TM
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

8/26/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80410-1

Login Number: 80410
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80462-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/26/2018 2:23:36 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

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Job ID: 180-80462-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80462-1

Receipt
The samples were received on 8/4/2018 11:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 4.3º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted due to the abundance of target analytes: E-4-2 (180-80462-7) and SSHS-B1320-SUB-2-4 (180-80462-8), E-N-8-2 (180-80462-10) and its matrix spikes, E-S-9-4 (180-80462-14), E-S-1-1 (180-80462-15), E-S-8-1 (180-80462-19), and E-S-8-2 (180-80462-20). Elevated reporting limits (RLs) are provided. Sample E-S-1-1 (180-80462-15) had the surrogates diluted out.

Method(s) 8082A: Samples E-S-9-4 (180-80462-14) had the recovery of surrogate decachlorobiphenyl above the control limits on both columns. The recoveries of surrogate tetrachloro-m-xylene were within the control limits.

Method(s) 8082A: The matrix spike/matrix spike duplicate (MS/MSD) recoveries of sample E-N-8-2 (180-80462-10) were above the control limits for aroclor 1016. The RPD between the spikes and the recovery of the laboratory control sample (LCS) were within the control limits.

Method(s) 8082A: The continuing calibration verifications (CCVs) analyzed in batch 180-253755 were below criteria for 2 peaks for aroclor 1254 (CCV 180-253755/1) on column RTX-CLP2; above criteria for 3 peaks for aroclor 1248 (CCV 180-253755/4) on column RTX-CLP1 and above criteria for 2 peaks on column RTX-CLP2; and above criteria for 2 peaks for aroclor 1016 (CCVIS 180-253755/5) on column RTX-CLP1 and above criteria for 1 peak on column RTX-CLP2. Results for aroclor 1254 were reported from column RTX-CLP1 which met criteria. Results for aroclor1248 were reported from column RTX-CLP2 using the 3 peaks that were within criteria. Aroclor 1016 was not detected in the associated samples.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253877 (CCV 180-253877/1) was below criteria for 2 peaks for aroclor 1254 on column RTX-CLP2. The associated sample results for aroclor 1254 were reported from column RTX-CLP1 which met criteria.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253877 (CCVIS 180-253877/26) was above criteria for aroclor 1016 on both columns. As the CCV was high and aroclor 1016 was not detected in the associated samples, the results were reported.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-253877 (CCVIS 180-253877/26) was above criteria for 1 peak for aroclor 1260 on column RTX-CLP2. The associated sample results for aroclor 1260 were reported from column RTX-CLP1 which met criteria.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254047 (CCV 180-254077/4) was above criteria for 1 peak for aroclor 1248 on column RTX-CLP1. The associated sample results for aroclor 1248 were reported from column RTX-CLP2 which met criteria.

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

Metals
Method(s) 6010C: The following sample was diluted to bring the concentration of iron within the linear range of the instrument: SSHS-B1320-SUB-2-4 (180-80462-8). Elevated reporting limits (RLs) are provided. Arsenic, cadmium, lead, antimony, and thallium were also reported from dilution due to inter-element corrections associated with iron.

Method(s) 6010C: The matrix spike/matrix spike duplicate (MS/MSD) of sample SSHS-B1282-SUB-0-2 (180-80462-1) had several recoveries and RPDs between the spikes outside of the control limits. The recoveries of the laboratory control sample were within the control limits.

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

Job ID: 180-80462-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

General Chemistry

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80462-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80462-1	SSHS-B1282-SUB-0-2	Solid	08/03/18 11:25	08/04/18 11:30
180-80462-2	SSHS-B1260-SUB-0-2	Solid	08/03/18 11:10	08/04/18 11:30
180-80462-3	E-2-2	Solid	08/03/18 11:15	08/04/18 11:30
180-80462-4	E-3-1	Solid	08/03/18 11:20	08/04/18 11:30
180-80462-5	E-3-2	Solid	08/03/18 11:30	08/04/18 11:30
180-80462-6	SSHS-B1261-SUB-0-2	Solid	08/03/18 11:35	08/04/18 11:30
180-80462-7	E-4-2	Solid	08/03/18 11:40	08/04/18 11:30
180-80462-8	SSHS-B1320-SUB-2-4	Solid	08/03/18 11:45	08/04/18 11:30
180-80462-9	E-S-7-1	Solid	08/03/18 12:35	08/04/18 11:30
180-80462-10	E-N-8-2	Solid	08/03/18 12:05	08/04/18 11:30
180-80462-11	E-S-9-1	Solid	08/03/18 12:10	08/04/18 11:30
180-80462-12	E-S-9-2	Solid	08/03/18 12:20	08/04/18 11:30
180-80462-13	SSHS-B1346-SUB-4-6	Solid	08/03/18 12:25	08/04/18 11:30
180-80462-14	E-S-9-4	Solid	08/03/18 12:30	08/04/18 11:30
180-80462-15	E-S-1-1	Solid	08/03/18 11:50	08/04/18 11:30
180-80462-16	E-S-1-2	Solid	08/03/18 12:40	08/04/18 11:30
180-80462-17	E-S-1-3	Solid	08/03/18 12:45	08/04/18 11:30
180-80462-18	E-S-1-4	Solid	08/03/18 12:50	08/04/18 11:30
180-80462-19	E-S-8-1	Solid	08/03/18 11:55	08/04/18 11:30
180-80462-20	E-S-8-2	Solid	08/03/18 12:00	08/04/18 11:30
180-80462-21	DUP-1 08032018	Solid	08/03/18 00:00	08/04/18 11:30
180-80462-22	DUP-2 08032018	Solid	08/03/18 00:00	08/04/18 11:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
EPA 6010C	Metals (ICP)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3050B	Preparation, Metals	SW846	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: SSHS-B1282-SUB-0-2
Date Collected: 08/03/18 11:25
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252920	08/06/18 12:49	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1282-SUB-0-2
Date Collected: 08/03/18 11:25
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-1
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253679	08/13/18 14:58	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253783	08/14/18 12:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253785	08/14/18 12:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253755	08/14/18 15:51	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.95 g	100 mL	253070	08/07/18 14:57	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254253	08/17/18 09:54	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.63 g	100 mL	254438	08/20/18 13:57	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 16:54	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: SSHS-B1260-SUB-0-2
Date Collected: 08/03/18 11:10
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252920	08/06/18 12:49	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1260-SUB-0-2
Date Collected: 08/03/18 11:10
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-2
Matrix: Solid
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253679	08/13/18 14:58	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253783	08/14/18 12:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253785	08/14/18 12:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253755	08/14/18 16:56	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.01 g	100 mL	253070	08/07/18 14:57	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254253	08/17/18 10:21	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.65 g	100 mL	254438	08/20/18 13:57	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 16:57	RJR	TAL PIT
	Instrument ID: HGZ									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: E-2-2
Date Collected: 08/03/18 11:15
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-2-2
Date Collected: 08/03/18 11:15
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-3
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253679	08/13/18 14:58	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253783	08/14/18 12:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253785	08/14/18 12:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253755	08/14/18 17:17	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: E-3-1
Date Collected: 08/03/18 11:20
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-3-1
Date Collected: 08/03/18 11:20
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-4
Matrix: Solid
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253679	08/13/18 14:58	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253783	08/14/18 12:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253785	08/14/18 12:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253755	08/14/18 17:39	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: E-3-2
Date Collected: 08/03/18 11:30
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: E-3-2

Date Collected: 08/03/18 11:30
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-5

Matrix: Solid
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253679	08/13/18 14:58	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253783	08/14/18 12:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253785	08/14/18 12:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253755	08/14/18 18:01	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1261-SUB-0-2

Date Collected: 08/03/18 11:35
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1261-SUB-0-2

Date Collected: 08/03/18 11:35
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-6

Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253679	08/13/18 14:58	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253783	08/14/18 12:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253785	08/14/18 12:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253755	08/14/18 18:22	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.02 g	100 mL	253070	08/07/18 14:57	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254253	08/17/18 10:26	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.63 g	100 mL	254438	08/20/18 13:57	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 17:00	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: E-4-2

Date Collected: 08/03/18 11:40
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: E-4-2

Lab Sample ID: 180-80462-7
Date Collected: 08/03/18 11:40
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253679	08/13/18 14:58	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253783	08/14/18 12:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253785	08/14/18 12:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			253877	08/15/18 20:38	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B1320-SUB-2-4

Lab Sample ID: 180-80462-8
Date Collected: 08/03/18 11:45
Matrix: Solid
Date Received: 08/04/18 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1320-SUB-2-4

Lab Sample ID: 180-80462-8
Date Collected: 08/03/18 11:45
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253679	08/13/18 14:58	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253783	08/14/18 12:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253785	08/14/18 12:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			253877	08/15/18 21:00	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.97 g	100 mL	253070	08/07/18 14:57	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254253	08/17/18 10:31	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	3050B			0.97 g	100 mL	253070	08/07/18 14:57	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		2			254253	08/17/18 12:00	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.58 g	100 mL	254438	08/20/18 13:57	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 17:01	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: E-S-7-1

Lab Sample ID: 180-80462-9
Date Collected: 08/03/18 12:35
Matrix: Solid
Date Received: 08/04/18 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: E-S-7-1
Date Collected: 08/03/18 12:35
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-9
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253679	08/13/18 14:58	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253783	08/14/18 12:03	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253785	08/14/18 12:04	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			253755	08/14/18 19:28	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: E-N-8-2
Date Collected: 08/03/18 12:05
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-N-8-2
Date Collected: 08/03/18 12:05
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-10
Matrix: Solid
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			254173	08/17/18 11:46	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: E-S-9-1
Date Collected: 08/03/18 12:10
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-9-1
Date Collected: 08/03/18 12:10
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-11
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254047	08/16/18 16:46	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: E-S-9-2
Date Collected: 08/03/18 12:20
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-9-2
Date Collected: 08/03/18 12:20
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-12
Matrix: Solid
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254047	08/16/18 17:05	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B1346-SUB-4-6
Date Collected: 08/03/18 12:25
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1346-SUB-4-6
Date Collected: 08/03/18 12:25
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-13
Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254047	08/16/18 17:23	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			0.98 g	100 mL	253070	08/07/18 14:57	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254253	08/17/18 10:47	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.55 g	100 mL	254438	08/20/18 13:57	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 17:01	RJR	TAL PIT
	Instrument ID: HGZ									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: E-S-9-4
Date Collected: 08/03/18 12:30
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-9-4
Date Collected: 08/03/18 12:30
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-14
Matrix: Solid
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			254173	08/17/18 12:43	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: E-S-1-1
Date Collected: 08/03/18 11:50
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-1-1
Date Collected: 08/03/18 11:50
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-15
Matrix: Solid
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		50			254173	08/17/18 13:01	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: E-S-1-2
Date Collected: 08/03/18 12:40
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: E-S-1-2
Date Collected: 08/03/18 12:40
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-16
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254047	08/16/18 18:19	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: E-S-1-3
Date Collected: 08/03/18 12:45
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-1-3
Date Collected: 08/03/18 12:45
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-17
Matrix: Solid
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254047	08/16/18 18:38	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: E-S-1-4
Date Collected: 08/03/18 12:50
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-1-4
Date Collected: 08/03/18 12:50
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-18
Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254047	08/16/18 18:57	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: E-S-8-1
Date Collected: 08/03/18 11:55
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-8-1
Date Collected: 08/03/18 11:55
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-19
Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			254173	08/17/18 13:20	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: E-S-8-2
Date Collected: 08/03/18 12:00
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-S-8-2
Date Collected: 08/03/18 12:00
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-20
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			254173	08/17/18 13:39	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: DUP-1 08032018
Date Collected: 08/03/18 00:00
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Client Sample ID: DUP-1 08032018

Date Collected: 08/03/18 00:00
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-21

Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254047	08/16/18 19:53	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			0.97 g	100 mL	253070	08/07/18 14:57	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254253	08/17/18 11:02	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.62 g	100 mL	254438	08/20/18 13:57	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 17:02	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: DUP-2 08032018

Date Collected: 08/03/18 00:00
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			252940	08/06/18 13:30	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-2 08032018

Date Collected: 08/03/18 00:00
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-22

Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	253825	08/14/18 14:40	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253956	08/15/18 11:38	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253958	08/15/18 11:40	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254047	08/16/18 20:12	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.02 g	100 mL	253070	08/07/18 14:57	NAM	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254253	08/17/18 11:07	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.59 g	100 mL	254438	08/20/18 13:57	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 17:03	RJR	TAL PIT
	Instrument ID: HGZ									

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80462-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

SAC = Shawn Clemente

Batch Type: Analysis

JMO = John Oravec

RJR = Ron Rosenbaum

TAM = Tessa Mastalski

Client Sample ID: SSHS-B1282-SUB-0-2

Date Collected: 08/03/18 11:25
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-1

Matrix: Solid
Percent Solids: 88.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/13/18 14:58	08/14/18 15:51	1
PCB-1221	ND		19	12	ug/Kg	☼	08/13/18 14:58	08/14/18 15:51	1
PCB-1232	ND		19	11	ug/Kg	☼	08/13/18 14:58	08/14/18 15:51	1
PCB-1242	ND		19	11	ug/Kg	☼	08/13/18 14:58	08/14/18 15:51	1
PCB-1248	**830**		19	15	ug/Kg	☼	08/13/18 14:58	08/14/18 15:51	1
PCB-1254	**610**		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 15:51	1
PCB-1260	**120**		19	5.3	ug/Kg	☼	08/13/18 14:58	08/14/18 15:51	1
PCB-1262	ND		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 15:51	1
PCB-1268	ND		19	9.1	ug/Kg	☼	08/13/18 14:58	08/14/18 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*08/13/18 14:58*	*08/14/18 15:51*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*08/13/18 14:58*	*08/14/18 15:51*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*08/13/18 14:58*	*08/14/18 15:51*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*08/13/18 14:58*	*08/14/18 15:51*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6800**		24	3.4	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Antimony	**1.6**		1.2	0.40	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Arsenic	**9.2**		1.2	0.33	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Barium	**140**		24	1.3	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Beryllium	**0.33**	**J**	0.48	0.027	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Cadmium	ND	F1	0.59	0.043	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Calcium	**23000**	**F1**	590	31	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Chromium	**24**		0.59	0.15	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Cobalt	**7.3**		5.9	0.35	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Copper	**270**		3.0	0.20	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Iron	**40000**		12	6.0	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Lead	**260**		1.2	0.29	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Magnesium	**2900**		590	39	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Manganese	**530**		1.8	0.19	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Nickel	**35**		4.8	0.30	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Potassium	**690**		590	41	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Selenium	**0.94**	**J**	1.2	0.61	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Silver	ND		0.59	0.13	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Sodium	**280**	**J**	590	31	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Thallium	ND		2.4	0.25	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Vanadium	**21**		5.9	0.83	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1
Zinc	**180**	**F1**	2.4	1.3	mg/Kg	☼	08/07/18 14:57	08/17/18 09:54	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.037**		0.035	0.0079	mg/Kg	☼	08/20/18 13:57	08/21/18 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.4**		0.1	0.1	%			08/06/18 12:49	1
Percent Solids	**88.6**		0.1	0.1	%			08/06/18 12:49	1

Client Sample ID: SSHS-B1260-SUB-0-2

Date Collected: 08/03/18 11:10
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-2

Matrix: Solid
Percent Solids: 87.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/13/18 14:58	08/14/18 16:56	1
PCB-1221	ND		19	12	ug/Kg	☼	08/13/18 14:58	08/14/18 16:56	1
PCB-1232	ND		19	11	ug/Kg	☼	08/13/18 14:58	08/14/18 16:56	1
PCB-1242	ND		19	11	ug/Kg	☼	08/13/18 14:58	08/14/18 16:56	1
PCB-1248	**33**		19	15	ug/Kg	☼	08/13/18 14:58	08/14/18 16:56	1
PCB-1254	**56**		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 16:56	1
PCB-1260	**18**	**J**	19	5.4	ug/Kg	☼	08/13/18 14:58	08/14/18 16:56	1
PCB-1262	ND		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 16:56	1
PCB-1268	ND		19	9.2	ug/Kg	☼	08/13/18 14:58	08/14/18 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/13/18 14:58*	*08/14/18 16:56*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*08/13/18 14:58*	*08/14/18 16:56*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*44 - 114*	*08/13/18 14:58*	*08/14/18 16:56*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*	*08/13/18 14:58*	*08/14/18 16:56*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7400**		23	3.2	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Antimony	ND		1.1	0.39	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Arsenic	**5.3**		1.1	0.31	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Barium	**68**		23	1.2	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Beryllium	**0.36**	**J**	0.46	0.026	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Cadmium	ND		0.57	0.041	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Calcium	**7500**		570	30	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Chromium	**10**		0.57	0.14	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Cobalt	**6.4**		5.7	0.33	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Copper	**21**		2.8	0.19	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Iron	**16000**		11	5.7	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Lead	**20**		1.1	0.28	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Magnesium	**2700**		570	37	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Manganese	**650**		1.7	0.18	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Nickel	**18**		4.6	0.28	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Potassium	**720**		570	40	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Selenium	ND		1.1	0.59	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Silver	ND		0.57	0.12	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Sodium	**54**	**J**	570	30	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Thallium	**0.32**	**J**	2.3	0.24	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Vanadium	**11**		5.7	0.79	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1
Zinc	**71**		2.3	1.2	mg/Kg	☼	08/07/18 14:57	08/17/18 10:21	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**	**J**	0.035	0.0078	mg/Kg	☼	08/20/18 13:57	08/21/18 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.0**		0.1	0.1	%			08/06/18 12:49	1
Percent Solids	**87.0**		0.1	0.1	%			08/06/18 12:49	1

Client Sample ID: E-2-2

Date Collected: 08/03/18 11:15
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-3
Matrix: Solid
Percent Solids: 85.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/13/18 14:58	08/14/18 17:17	1
PCB-1221	ND		19	12	ug/Kg	☼	08/13/18 14:58	08/14/18 17:17	1
PCB-1232	ND		19	11	ug/Kg	☼	08/13/18 14:58	08/14/18 17:17	1
PCB-1242	ND		19	11	ug/Kg	☼	08/13/18 14:58	08/14/18 17:17	1
PCB-1248	**200**		19	15	ug/Kg	☼	08/13/18 14:58	08/14/18 17:17	1
PCB-1254	**250**		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 17:17	1
PCB-1260	**64**		19	5.5	ug/Kg	☼	08/13/18 14:58	08/14/18 17:17	1
PCB-1262	ND		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 17:17	1
PCB-1268	ND		19	9.3	ug/Kg	☼	08/13/18 14:58	08/14/18 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*08/13/18 14:58*	*08/14/18 17:17*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*08/13/18 14:58*	*08/14/18 17:17*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*08/13/18 14:58*	*08/14/18 17:17*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*08/13/18 14:58*	*08/14/18 17:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.3**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**85.7**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-3-1

Date Collected: 08/03/18 11:20
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-4
Matrix: Solid
Percent Solids: 89.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	08/13/18 14:58	08/14/18 17:39	1
PCB-1221	ND		18	12	ug/Kg	☼	08/13/18 14:58	08/14/18 17:39	1
PCB-1232	ND		18	11	ug/Kg	☼	08/13/18 14:58	08/14/18 17:39	1
PCB-1242	ND		18	11	ug/Kg	☼	08/13/18 14:58	08/14/18 17:39	1
PCB-1248	**65**		18	14	ug/Kg	☼	08/13/18 14:58	08/14/18 17:39	1
PCB-1254	**99**		18	12	ug/Kg	☼	08/13/18 14:58	08/14/18 17:39	1
PCB-1260	**27**		18	5.2	ug/Kg	☼	08/13/18 14:58	08/14/18 17:39	1
PCB-1262	ND		18	13	ug/Kg	☼	08/13/18 14:58	08/14/18 17:39	1
PCB-1268	ND		18	8.8	ug/Kg	☼	08/13/18 14:58	08/14/18 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*08/13/18 14:58*	*08/14/18 17:39*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*33 - 137*	*08/13/18 14:58*	*08/14/18 17:39*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*08/13/18 14:58*	*08/14/18 17:39*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*08/13/18 14:58*	*08/14/18 17:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**89.6**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-3-2

Lab Sample ID: 180-80462-5
Date Collected: 08/03/18 11:30
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 89.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	6.0	ug/Kg	☼	08/13/18 14:58	08/14/18 18:01	1
PCB-1221	ND		18	12	ug/Kg	☼	08/13/18 14:58	08/14/18 18:01	1
PCB-1232	ND		18	11	ug/Kg	☼	08/13/18 14:58	08/14/18 18:01	1
PCB-1242	ND		18	11	ug/Kg	☼	08/13/18 14:58	08/14/18 18:01	1
PCB-1248	**150**		18	15	ug/Kg	☼	08/13/18 14:58	08/14/18 18:01	1
PCB-1254	**120**		18	13	ug/Kg	☼	08/13/18 14:58	08/14/18 18:01	1
PCB-1260	**27**		18	5.2	ug/Kg	☼	08/13/18 14:58	08/14/18 18:01	1
PCB-1262	ND		18	13	ug/Kg	☼	08/13/18 14:58	08/14/18 18:01	1
PCB-1268	ND		18	8.9	ug/Kg	☼	08/13/18 14:58	08/14/18 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*08/13/18 14:58*	*08/14/18 18:01*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*08/13/18 14:58*	*08/14/18 18:01*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*08/13/18 14:58*	*08/14/18 18:01*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*08/13/18 14:58*	*08/14/18 18:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**89.1**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: SSHS-B1261-SUB-0-2

Lab Sample ID: 180-80462-6
Date Collected: 08/03/18 11:35
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 88.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/13/18 14:58	08/14/18 18:22	1
PCB-1221	ND		19	12	ug/Kg	☼	08/13/18 14:58	08/14/18 18:22	1
PCB-1232	ND		19	11	ug/Kg	☼	08/13/18 14:58	08/14/18 18:22	1
PCB-1242	ND		19	11	ug/Kg	☼	08/13/18 14:58	08/14/18 18:22	1
PCB-1248	**1900**		19	15	ug/Kg	☼	08/13/18 14:58	08/14/18 18:22	1
PCB-1254	**850**		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 18:22	1
PCB-1260	**180**		19	5.3	ug/Kg	☼	08/13/18 14:58	08/14/18 18:22	1
PCB-1262	ND		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 18:22	1
PCB-1268	ND		19	9.1	ug/Kg	☼	08/13/18 14:58	08/14/18 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*08/13/18 14:58*	*08/14/18 18:22*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*08/13/18 14:58*	*08/14/18 18:22*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*08/13/18 14:58*	*08/14/18 18:22*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*08/13/18 14:58*	*08/14/18 18:22*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6000**		22	3.2	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Antimony	ND		1.1	0.38	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Arsenic	**6.4**		1.1	0.31	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Barium	**40**		22	1.2	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Beryllium	**0.26**	**J**	0.44	0.025	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Cadmium	ND		0.55	0.040	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1

Client Sample ID: SSHS-B1261-SUB-0-2

Lab Sample ID: 180-80462-6
Date Collected: 08/03/18 11:35
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 88.5

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**6800**		550	29	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Chromium	**8.2**		0.55	0.14	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Cobalt	**6.2**		5.5	0.32	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Copper	**31**		2.8	0.19	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Iron	**18000**		11	5.6	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Lead	**16**		1.1	0.27	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Magnesium	**3000**		550	36	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Manganese	**340**		1.7	0.18	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Nickel	**16**		4.4	0.28	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Potassium	**570**		550	39	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Selenium	ND		1.1	0.57	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Silver	ND		0.55	0.12	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Sodium	**61**	**J**	550	29	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Thallium	ND		2.2	0.23	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Vanadium	**14**		5.5	0.77	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1
Zinc	**55**		2.2	1.2	mg/Kg	☼	08/07/18 14:57	08/17/18 10:26	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.036	0.0080	mg/Kg	☼	08/20/18 13:57	08/21/18 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**88.5**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-4-2

Lab Sample ID: 180-80462-7
Date Collected: 08/03/18 11:40
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 81.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		200	66	ug/Kg	☼	08/13/18 14:58	08/15/18 20:38	10
PCB-1221	ND		200	130	ug/Kg	☼	08/13/18 14:58	08/15/18 20:38	10
PCB-1232	ND		200	120	ug/Kg	☼	08/13/18 14:58	08/15/18 20:38	10
PCB-1242	ND		200	120	ug/Kg	☼	08/13/18 14:58	08/15/18 20:38	10
PCB-1248	**36000**		200	160	ug/Kg	☼	08/13/18 14:58	08/15/18 20:38	10
PCB-1254	**8300**		200	140	ug/Kg	☼	08/13/18 14:58	08/15/18 20:38	10
PCB-1260	**1600**		200	57	ug/Kg	☼	08/13/18 14:58	08/15/18 20:38	10
PCB-1262	ND		200	140	ug/Kg	☼	08/13/18 14:58	08/15/18 20:38	10
PCB-1268	ND		200	98	ug/Kg	☼	08/13/18 14:58	08/15/18 20:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/13/18 14:58*	*08/15/18 20:38*	*10*
DCB Decachlorobiphenyl (Surr)	*58*	*p*	*33 - 137*	*08/13/18 14:58*	*08/15/18 20:38*	*10*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*08/13/18 14:58*	*08/15/18 20:38*	*10*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*08/13/18 14:58*	*08/15/18 20:38*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.5**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-4-2

Lab Sample ID: 180-80462-7
Date Collected: 08/03/18 11:40
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 81.5

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**81.5**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: SSHS-B1320-SUB-2-4

Lab Sample ID: 180-80462-8
Date Collected: 08/03/18 11:45
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 84.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	62	ug/Kg	☼	08/13/18 14:58	08/15/18 21:00	10
PCB-1221	ND		190	120	ug/Kg	☼	08/13/18 14:58	08/15/18 21:00	10
PCB-1232	ND		190	110	ug/Kg	☼	08/13/18 14:58	08/15/18 21:00	10
PCB-1242	ND		190	120	ug/Kg	☼	08/13/18 14:58	08/15/18 21:00	10
PCB-1248	**18000**		190	150	ug/Kg	☼	08/13/18 14:58	08/15/18 21:00	10
PCB-1254	**2400**		190	130	ug/Kg	☼	08/13/18 14:58	08/15/18 21:00	10
PCB-1260	**600**		190	55	ug/Kg	☼	08/13/18 14:58	08/15/18 21:00	10
PCB-1262	ND		190	130	ug/Kg	☼	08/13/18 14:58	08/15/18 21:00	10
PCB-1268	ND		190	93	ug/Kg	☼	08/13/18 14:58	08/15/18 21:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/13/18 14:58*	*08/15/18 21:00*	*10*
DCB Decachlorobiphenyl (Surr)	*45*	*p*	*33 - 137*	*08/13/18 14:58*	*08/15/18 21:00*	*10*
Tetrachloro-m-xylene (Surr)	*94*		*44 - 114*	*08/13/18 14:58*	*08/15/18 21:00*	*10*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*08/13/18 14:58*	*08/15/18 21:00*	*10*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4800**		24	3.5	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Antimony	ND		2.4	0.83	mg/Kg	☼	08/07/18 14:57	08/17/18 12:00	2
Arsenic	**14**		2.4	0.67	mg/Kg	☼	08/07/18 14:57	08/17/18 12:00	2
Barium	**120**		24	1.3	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Beryllium	**0.38**	**J**	0.49	0.028	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Cadmium	ND		1.2	0.089	mg/Kg	☼	08/07/18 14:57	08/17/18 12:00	2
Calcium	**5200**		610	32	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Chromium	**15**		0.61	0.15	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Cobalt	**11**		6.1	0.36	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Copper	**85**		3.1	0.20	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Iron	**72000**		24	12	mg/Kg	☼	08/07/18 14:57	08/17/18 12:00	2
Lead	**170**		2.4	0.60	mg/Kg	☼	08/07/18 14:57	08/17/18 12:00	2
Magnesium	**1700**		610	40	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Manganese	**880**		1.8	0.20	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Nickel	**58**		4.9	0.30	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Potassium	**650**		610	42	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Selenium	ND		1.2	0.63	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Silver	ND		0.61	0.13	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Sodium	**540**	**J**	610	32	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Thallium	ND		4.9	0.51	mg/Kg	☼	08/07/18 14:57	08/17/18 12:00	2
Vanadium	**24**		6.1	0.85	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1
Zinc	**84**		2.4	1.3	mg/Kg	☼	08/07/18 14:57	08/17/18 10:31	1

Client Sample ID: SSHS-B1320-SUB-2-4

Lab Sample ID: 180-80462-8
Date Collected: 08/03/18 11:45
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 84.5

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.040	0.0090	mg/Kg	☼	08/20/18 13:57	08/21/18 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.5**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**84.5**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-7-1

Lab Sample ID: 180-80462-9
Date Collected: 08/03/18 12:35
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 86.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	08/13/18 14:58	08/14/18 19:28	1
PCB-1221	ND		19	12	ug/Kg	☼	08/13/18 14:58	08/14/18 19:28	1
PCB-1232	ND		19	11	ug/Kg	☼	08/13/18 14:58	08/14/18 19:28	1
PCB-1242	ND		19	12	ug/Kg	☼	08/13/18 14:58	08/14/18 19:28	1
PCB-1248	**2300**		19	15	ug/Kg	☼	08/13/18 14:58	08/14/18 19:28	1
PCB-1254	**1500**		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 19:28	1
PCB-1260	**430**		19	5.5	ug/Kg	☼	08/13/18 14:58	08/14/18 19:28	1
PCB-1262	ND		19	13	ug/Kg	☼	08/13/18 14:58	08/14/18 19:28	1
PCB-1268	ND		19	9.3	ug/Kg	☼	08/13/18 14:58	08/14/18 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*08/13/18 14:58*	*08/14/18 19:28*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/13/18 14:58*	*08/14/18 19:28*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*	*08/13/18 14:58*	*08/14/18 19:28*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*08/13/18 14:58*	*08/14/18 19:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**86.7**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-N-8-2

Lab Sample ID: 180-80462-10
Date Collected: 08/03/18 12:05
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 88.4

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1	190	61	ug/Kg	☼	08/14/18 14:40	08/17/18 11:46	10
PCB-1221	ND		190	120	ug/Kg	☼	08/14/18 14:40	08/17/18 11:46	10
PCB-1232	ND		190	110	ug/Kg	☼	08/14/18 14:40	08/17/18 11:46	10
PCB-1242	ND		190	110	ug/Kg	☼	08/14/18 14:40	08/17/18 11:46	10
PCB-1248	**14000**		190	150	ug/Kg	☼	08/14/18 14:40	08/17/18 11:46	10
PCB-1254	**4500**		190	130	ug/Kg	☼	08/14/18 14:40	08/17/18 11:46	10
PCB-1260	**760**		190	53	ug/Kg	☼	08/14/18 14:40	08/17/18 11:46	10
PCB-1262	ND		190	130	ug/Kg	☼	08/14/18 14:40	08/17/18 11:46	10
PCB-1268	ND		190	91	ug/Kg	☼	08/14/18 14:40	08/17/18 11:46	10

Client Sample ID: E-N-8-2

Date Collected: 08/03/18 12:05
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-10

Matrix: Solid
Percent Solids: 88.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*111*		*33 - 137*	*08/14/18 14:40*	*08/17/18 11:46*	*10*
DCB Decachlorobiphenyl (Surr)	*106*		*33 - 137*	*08/14/18 14:40*	*08/17/18 11:46*	*10*
Tetrachloro-m-xylene (Surr)	*102*		*44 - 114*	*08/14/18 14:40*	*08/17/18 11:46*	*10*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*	*08/14/18 14:40*	*08/17/18 11:46*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**88.4**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-9-1

Date Collected: 08/03/18 12:10
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-11

Matrix: Solid
Percent Solids: 88.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	08/14/18 14:40	08/16/18 16:46	1
PCB-1221	ND		19	12	ug/Kg	☼	08/14/18 14:40	08/16/18 16:46	1
PCB-1232	ND		19	11	ug/Kg	☼	08/14/18 14:40	08/16/18 16:46	1
PCB-1242	ND		19	11	ug/Kg	☼	08/14/18 14:40	08/16/18 16:46	1
PCB-1248	**4800**		19	15	ug/Kg	☼	08/14/18 14:40	08/16/18 16:46	1
PCB-1254	**2000**		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 16:46	1
PCB-1260	**340**	**p**	19	5.3	ug/Kg	☼	08/14/18 14:40	08/16/18 16:46	1
PCB-1262	ND		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 16:46	1
PCB-1268	ND		19	9.0	ug/Kg	☼	08/14/18 14:40	08/16/18 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*08/14/18 14:40*	*08/16/18 16:46*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*08/14/18 14:40*	*08/16/18 16:46*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*08/14/18 14:40*	*08/16/18 16:46*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*08/14/18 14:40*	*08/16/18 16:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.4**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**88.6**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-9-2

Date Collected: 08/03/18 12:20
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-12

Matrix: Solid
Percent Solids: 88.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	08/14/18 14:40	08/16/18 17:05	1
PCB-1221	ND		19	12	ug/Kg	☼	08/14/18 14:40	08/16/18 17:05	1
PCB-1232	ND		19	11	ug/Kg	☼	08/14/18 14:40	08/16/18 17:05	1
PCB-1242	ND		19	11	ug/Kg	☼	08/14/18 14:40	08/16/18 17:05	1
PCB-1248	**3000**		19	15	ug/Kg	☼	08/14/18 14:40	08/16/18 17:05	1
PCB-1254	**1000**		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 17:05	1
PCB-1260	**200**		19	5.3	ug/Kg	☼	08/14/18 14:40	08/16/18 17:05	1
PCB-1262	ND		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 17:05	1

Client Sample ID: E-S-9-2

Date Collected: 08/03/18 12:20
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-12

Matrix: Solid
Percent Solids: 88.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		19	9.0	ug/Kg	☼	08/14/18 14:40	08/16/18 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/14/18 14:40*	*08/16/18 17:05*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*08/14/18 14:40*	*08/16/18 17:05*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*	*08/14/18 14:40*	*08/16/18 17:05*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*08/14/18 14:40*	*08/16/18 17:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.0**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**88.0**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: SSHS-B1346-SUB-4-6

Date Collected: 08/03/18 12:25
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-13

Matrix: Solid
Percent Solids: 88.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/14/18 14:40	08/16/18 17:23	1
PCB-1221	ND		19	12	ug/Kg	☼	08/14/18 14:40	08/16/18 17:23	1
PCB-1232	ND		19	11	ug/Kg	☼	08/14/18 14:40	08/16/18 17:23	1
PCB-1242	ND		19	11	ug/Kg	☼	08/14/18 14:40	08/16/18 17:23	1
PCB-1248	**1300**		19	15	ug/Kg	☼	08/14/18 14:40	08/16/18 17:23	1
PCB-1254	**530**		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 17:23	1
PCB-1260	**130**		19	5.3	ug/Kg	☼	08/14/18 14:40	08/16/18 17:23	1
PCB-1262	ND		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 17:23	1
PCB-1268	ND		19	9.1	ug/Kg	☼	08/14/18 14:40	08/16/18 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/14/18 14:40*	*08/16/18 17:23*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*08/14/18 14:40*	*08/16/18 17:23*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*08/14/18 14:40*	*08/16/18 17:23*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*08/14/18 14:40*	*08/16/18 17:23*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8000**		23	3.3	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Antimony	ND		1.2	0.39	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Arsenic	**8.1**		1.2	0.32	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Barium	**150**		23	1.2	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Beryllium	**0.40**	**J**	0.46	0.026	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Cadmium	**0.11**	**J**	0.58	0.042	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Calcium	**16000**		580	30	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Chromium	**15**		0.58	0.14	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Cobalt	**6.8**		5.8	0.34	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Copper	**57**		2.9	0.19	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Iron	**19000**		12	5.8	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Lead	**40**		1.2	0.29	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Magnesium	**3500**		580	38	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Manganese	**510**		1.7	0.19	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1

Client Sample ID: SSHS-B1346-SUB-4-6

Lab Sample ID: 180-80462-13
Date Collected: 08/03/18 12:25
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 88.3

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**41**		4.6	0.29	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Potassium	**850**		580	40	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Selenium	ND		1.2	0.60	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Silver	ND		0.58	0.12	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Sodium	**430**	**J**	580	30	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Thallium	**0.33**	**J**	2.3	0.24	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Vanadium	**16**		5.8	0.81	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1
Zinc	**140**		2.3	1.2	mg/Kg	☼	08/07/18 14:57	08/17/18 10:47	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**	**J**	0.041	0.0091	mg/Kg	☼	08/20/18 13:57	08/21/18 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**88.3**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-9-4

Lab Sample ID: 180-80462-14
Date Collected: 08/03/18 12:30
Matrix: Solid
Date Received: 08/04/18 11:30
Percent Solids: 86.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	62	ug/Kg	☼	08/14/18 14:40	08/17/18 12:43	10
PCB-1221	ND		190	120	ug/Kg	☼	08/14/18 14:40	08/17/18 12:43	10
PCB-1232	ND		190	110	ug/Kg	☼	08/14/18 14:40	08/17/18 12:43	10
PCB-1242	ND		190	110	ug/Kg	☼	08/14/18 14:40	08/17/18 12:43	10
PCB-1248	**9100**		190	150	ug/Kg	☼	08/14/18 14:40	08/17/18 12:43	10
PCB-1254	**3000**		190	130	ug/Kg	☼	08/14/18 14:40	08/17/18 12:43	10
PCB-1260	**640**		190	55	ug/Kg	☼	08/14/18 14:40	08/17/18 12:43	10
PCB-1262	ND		190	130	ug/Kg	☼	08/14/18 14:40	08/17/18 12:43	10
PCB-1268	ND		190	93	ug/Kg	☼	08/14/18 14:40	08/17/18 12:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*416*	*X*	*33 - 137*	*08/14/18 14:40*	*08/17/18 12:43*	*10*
DCB Decachlorobiphenyl (Surr)	*408*	*X*	*33 - 137*	*08/14/18 14:40*	*08/17/18 12:43*	*10*
Tetrachloro-m-xylene (Surr)	*102*		*44 - 114*	*08/14/18 14:40*	*08/17/18 12:43*	*10*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*	*08/14/18 14:40*	*08/17/18 12:43*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.7**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**86.3**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-1-1

Date Collected: 08/03/18 11:50
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-15
Matrix: Solid
Percent Solids: 87.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		940	310	ug/Kg	☼	08/14/18 14:40	08/17/18 13:01	50
PCB-1221	ND		940	610	ug/Kg	☼	08/14/18 14:40	08/17/18 13:01	50
PCB-1232	ND		940	560	ug/Kg	☼	08/14/18 14:40	08/17/18 13:01	50
PCB-1242	ND		940	570	ug/Kg	☼	08/14/18 14:40	08/17/18 13:01	50
PCB-1248	**200000**		940	750	ug/Kg	☼	08/14/18 14:40	08/17/18 13:01	50
PCB-1254	**51000**		940	650	ug/Kg	☼	08/14/18 14:40	08/17/18 13:01	50
PCB-1260	**7200**		940	270	ug/Kg	☼	08/14/18 14:40	08/17/18 13:01	50
PCB-1262	ND		940	660	ug/Kg	☼	08/14/18 14:40	08/17/18 13:01	50
PCB-1268	ND		940	460	ug/Kg	☼	08/14/18 14:40	08/17/18 13:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*08/14/18 14:40*	*08/17/18 13:01*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*08/14/18 14:40*	*08/17/18 13:01*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*08/14/18 14:40*	*08/17/18 13:01*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*08/14/18 14:40*	*08/17/18 13:01*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.3**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**87.7**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-1-2

Date Collected: 08/03/18 12:40
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-16
Matrix: Solid
Percent Solids: 87.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.0	ug/Kg	☼	08/14/18 14:40	08/16/18 18:19	1
PCB-1221	ND		19	12	ug/Kg	☼	08/14/18 14:40	08/16/18 18:19	1
PCB-1232	ND		19	11	ug/Kg	☼	08/14/18 14:40	08/16/18 18:19	1
PCB-1242	ND		19	11	ug/Kg	☼	08/14/18 14:40	08/16/18 18:19	1
PCB-1248	**590**		19	15	ug/Kg	☼	08/14/18 14:40	08/16/18 18:19	1
PCB-1254	**400**		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 18:19	1
PCB-1260	**130**		19	5.3	ug/Kg	☼	08/14/18 14:40	08/16/18 18:19	1
PCB-1262	ND		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 18:19	1
PCB-1268	ND		19	9.0	ug/Kg	☼	08/14/18 14:40	08/16/18 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*	*08/14/18 14:40*	*08/16/18 18:19*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*08/14/18 14:40*	*08/16/18 18:19*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*	*08/14/18 14:40*	*08/16/18 18:19*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*08/14/18 14:40*	*08/16/18 18:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**87.5**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-1-3

Date Collected: 08/03/18 12:45
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-17
Matrix: Solid
Percent Solids: 76.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.9	ug/Kg	☼	08/14/18 14:40	08/16/18 18:38	1
PCB-1221	ND		21	14	ug/Kg	☼	08/14/18 14:40	08/16/18 18:38	1
PCB-1232	ND		21	13	ug/Kg	☼	08/14/18 14:40	08/16/18 18:38	1
PCB-1242	ND		21	13	ug/Kg	☼	08/14/18 14:40	08/16/18 18:38	1
PCB-1248	**130**		21	17	ug/Kg	☼	08/14/18 14:40	08/16/18 18:38	1
PCB-1254	**170**		21	15	ug/Kg	☼	08/14/18 14:40	08/16/18 18:38	1
PCB-1260	**82**		21	6.1	ug/Kg	☼	08/14/18 14:40	08/16/18 18:38	1
PCB-1262	ND		21	15	ug/Kg	☼	08/14/18 14:40	08/16/18 18:38	1
PCB-1268	ND		21	10	ug/Kg	☼	08/14/18 14:40	08/16/18 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*08/14/18 14:40*	*08/16/18 18:38*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*08/14/18 14:40*	*08/16/18 18:38*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*08/14/18 14:40*	*08/16/18 18:38*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*08/14/18 14:40*	*08/16/18 18:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.9**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**76.1**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-1-4

Date Collected: 08/03/18 12:50
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-18
Matrix: Solid
Percent Solids: 84.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/14/18 14:40	08/16/18 18:57	1
PCB-1221	ND		20	13	ug/Kg	☼	08/14/18 14:40	08/16/18 18:57	1
PCB-1232	ND		20	12	ug/Kg	☼	08/14/18 14:40	08/16/18 18:57	1
PCB-1242	ND		20	12	ug/Kg	☼	08/14/18 14:40	08/16/18 18:57	1
PCB-1248	**240**		20	16	ug/Kg	☼	08/14/18 14:40	08/16/18 18:57	1
PCB-1254	**110**		20	13	ug/Kg	☼	08/14/18 14:40	08/16/18 18:57	1
PCB-1260	**34**		20	5.6	ug/Kg	☼	08/14/18 14:40	08/16/18 18:57	1
PCB-1262	ND		20	14	ug/Kg	☼	08/14/18 14:40	08/16/18 18:57	1
PCB-1268	ND		20	9.6	ug/Kg	☼	08/14/18 14:40	08/16/18 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*08/14/18 14:40*	*08/16/18 18:57*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*08/14/18 14:40*	*08/16/18 18:57*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*08/14/18 14:40*	*08/16/18 18:57*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*08/14/18 14:40*	*08/16/18 18:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.3**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**84.7**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-8-1

Date Collected: 08/03/18 11:55
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-19
Matrix: Solid
Percent Solids: 84.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	62	ug/Kg	☼	08/14/18 14:40	08/17/18 13:20	10
PCB-1221	ND		190	120	ug/Kg	☼	08/14/18 14:40	08/17/18 13:20	10
PCB-1232	ND		190	110	ug/Kg	☼	08/14/18 14:40	08/17/18 13:20	10
PCB-1242	ND		190	110	ug/Kg	☼	08/14/18 14:40	08/17/18 13:20	10
PCB-1248	**13000**		190	150	ug/Kg	☼	08/14/18 14:40	08/17/18 13:20	10
PCB-1254	**3800**		190	130	ug/Kg	☼	08/14/18 14:40	08/17/18 13:20	10
PCB-1260	**610**		190	54	ug/Kg	☼	08/14/18 14:40	08/17/18 13:20	10
PCB-1262	ND		190	130	ug/Kg	☼	08/14/18 14:40	08/17/18 13:20	10
PCB-1268	ND		190	93	ug/Kg	☼	08/14/18 14:40	08/17/18 13:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*111*		*33 - 137*	*08/14/18 14:40*	*08/17/18 13:20*	*10*
DCB Decachlorobiphenyl (Surr)	*109*		*33 - 137*	*08/14/18 14:40*	*08/17/18 13:20*	*10*
Tetrachloro-m-xylene (Surr)	*101*		*44 - 114*	*08/14/18 14:40*	*08/17/18 13:20*	*10*
Tetrachloro-m-xylene (Surr)	*94*		*44 - 114*	*08/14/18 14:40*	*08/17/18 13:20*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.2**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**84.8**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: E-S-8-2

Date Collected: 08/03/18 12:00
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-20
Matrix: Solid
Percent Solids: 92.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	57	ug/Kg	☼	08/14/18 14:40	08/17/18 13:39	10
PCB-1221	ND		180	110	ug/Kg	☼	08/14/18 14:40	08/17/18 13:39	10
PCB-1232	ND		180	100	ug/Kg	☼	08/14/18 14:40	08/17/18 13:39	10
PCB-1242	ND		180	110	ug/Kg	☼	08/14/18 14:40	08/17/18 13:39	10
PCB-1248	**9900**		180	140	ug/Kg	☼	08/14/18 14:40	08/17/18 13:39	10
PCB-1254	**2800**		180	120	ug/Kg	☼	08/14/18 14:40	08/17/18 13:39	10
PCB-1260	**470**		180	50	ug/Kg	☼	08/14/18 14:40	08/17/18 13:39	10
PCB-1262	ND		180	120	ug/Kg	☼	08/14/18 14:40	08/17/18 13:39	10
PCB-1268	ND		180	86	ug/Kg	☼	08/14/18 14:40	08/17/18 13:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*	*08/14/18 14:40*	*08/17/18 13:39*	*10*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*08/14/18 14:40*	*08/17/18 13:39*	*10*
Tetrachloro-m-xylene (Surr)	*102*		*44 - 114*	*08/14/18 14:40*	*08/17/18 13:39*	*10*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*08/14/18 14:40*	*08/17/18 13:39*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**92.1**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: DUP-1 08032018

Date Collected: 08/03/18 00:00
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-21

Matrix: Solid
Percent Solids: 85.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	08/14/18 14:40	08/16/18 19:53	1
PCB-1221	ND		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 19:53	1
PCB-1232	ND		19	11	ug/Kg	☼	08/14/18 14:40	08/16/18 19:53	1
PCB-1242	ND		19	12	ug/Kg	☼	08/14/18 14:40	08/16/18 19:53	1
PCB-1248	**2600**		19	15	ug/Kg	☼	08/14/18 14:40	08/16/18 19:53	1
PCB-1254	**710**		19	13	ug/Kg	☼	08/14/18 14:40	08/16/18 19:53	1
PCB-1260	**130**		19	5.5	ug/Kg	☼	08/14/18 14:40	08/16/18 19:53	1
PCB-1262	ND		19	14	ug/Kg	☼	08/14/18 14:40	08/16/18 19:53	1
PCB-1268	ND		19	9.4	ug/Kg	☼	08/14/18 14:40	08/16/18 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*33 - 137*	*08/14/18 14:40*	*08/16/18 19:53*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*33 - 137*	*08/14/18 14:40*	*08/16/18 19:53*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*44 - 114*	*08/14/18 14:40*	*08/16/18 19:53*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/14/18 14:40*	*08/16/18 19:53*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7900**		24	3.4	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Antimony	**2.4**		1.2	0.41	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Arsenic	**8.7**		1.2	0.33	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Barium	**180**		24	1.3	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Beryllium	**0.36**	**J**	0.48	0.028	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Cadmium	ND		0.60	0.044	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Calcium	**13000**		600	31	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Chromium	**24**		0.60	0.15	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Cobalt	**7.8**		6.0	0.35	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Copper	**160**		3.0	0.20	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Iron	**40000**		12	6.1	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Lead	**370**		1.2	0.30	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Magnesium	**3000**		600	40	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Manganese	**520**		1.8	0.20	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Nickel	**34**		4.8	0.30	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Potassium	**850**		600	42	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Selenium	**1.0**	**J**	1.2	0.62	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Silver	ND		0.60	0.13	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Sodium	**470**	**J**	600	31	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Thallium	ND		2.4	0.25	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Vanadium	**21**		6.0	0.84	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1
Zinc	**180**		2.4	1.3	mg/Kg	☼	08/07/18 14:57	08/17/18 11:02	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.095**		0.037	0.0083	mg/Kg	☼	08/20/18 13:57	08/21/18 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.3**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**85.7**		0.1	0.1	%			08/06/18 13:30	1

Client Sample ID: DUP-2 08032018
Date Collected: 08/03/18 00:00
Date Received: 08/04/18 11:30

Lab Sample ID: 180-80462-22
Matrix: Solid
Percent Solids: 88.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	08/14/18 14:40	08/16/18 20:12	1
PCB-1221	ND		18	12	ug/Kg	☼	08/14/18 14:40	08/16/18 20:12	1
PCB-1232	ND		18	11	ug/Kg	☼	08/14/18 14:40	08/16/18 20:12	1
PCB-1242	ND		18	11	ug/Kg	☼	08/14/18 14:40	08/16/18 20:12	1
PCB-1248	**630**		18	14	ug/Kg	☼	08/14/18 14:40	08/16/18 20:12	1
PCB-1254	**260**		18	12	ug/Kg	☼	08/14/18 14:40	08/16/18 20:12	1
PCB-1260	**54**		18	5.2	ug/Kg	☼	08/14/18 14:40	08/16/18 20:12	1
PCB-1262	ND		18	13	ug/Kg	☼	08/14/18 14:40	08/16/18 20:12	1
PCB-1268	ND		18	8.8	ug/Kg	☼	08/14/18 14:40	08/16/18 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*08/14/18 14:40*	*08/16/18 20:12*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*08/14/18 14:40*	*08/16/18 20:12*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*44 - 114*	*08/14/18 14:40*	*08/16/18 20:12*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*08/14/18 14:40*	*08/16/18 20:12*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6900**		22	3.1	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Antimony	ND		1.1	0.38	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Arsenic	**11**		1.1	0.31	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Barium	**59**		22	1.2	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Beryllium	**0.40**	**J**	0.44	0.025	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Cadmium	ND		0.55	0.040	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Calcium	**9700**		550	29	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Chromium	**10**		0.55	0.14	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Cobalt	**7.0**		5.5	0.32	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Copper	**43**		2.8	0.18	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Iron	**22000**		11	5.6	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Lead	**33**		1.1	0.27	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Magnesium	**4000**		550	36	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Manganese	**440**		1.7	0.18	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Nickel	**20**		4.4	0.27	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Potassium	**710**		550	38	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Selenium	ND		1.1	0.57	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Silver	ND		0.55	0.12	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Sodium	**100**	**J**	550	29	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Thallium	ND		2.2	0.23	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Vanadium	**18**		5.5	0.77	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1
Zinc	**72**		2.2	1.2	mg/Kg	☼	08/07/18 14:57	08/17/18 11:07	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**	**J**	0.038	0.0085	mg/Kg	☼	08/20/18 13:57	08/21/18 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			08/06/18 13:30	1
Percent Solids	**88.7**		0.1	0.1	%			08/06/18 13:30	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-253679/1-C
Matrix: Solid
Analysis Batch: 253755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/13/18 14:58	08/14/18 12:57	1
PCB-1221	ND		17	11	ug/Kg		08/13/18 14:58	08/14/18 12:57	1
PCB-1232	ND		17	9.9	ug/Kg		08/13/18 14:58	08/14/18 12:57	1
PCB-1242	ND		17	10	ug/Kg		08/13/18 14:58	08/14/18 12:57	1
PCB-1248	ND		17	13	ug/Kg		08/13/18 14:58	08/14/18 12:57	1
PCB-1254	ND		17	11	ug/Kg		08/13/18 14:58	08/14/18 12:57	1
PCB-1260	ND		17	4.7	ug/Kg		08/13/18 14:58	08/14/18 12:57	1
PCB-1262	ND		17	12	ug/Kg		08/13/18 14:58	08/14/18 12:57	1
PCB-1268	ND		17	8.1	ug/Kg		08/13/18 14:58	08/14/18 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*105*		*33 - 137*	*08/13/18 14:58*	*08/14/18 12:57*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*08/13/18 14:58*	*08/14/18 12:57*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*	*08/13/18 14:58*	*08/14/18 12:57*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*44 - 114*	*08/13/18 14:58*	*08/14/18 12:57*	*1*

Lab Sample ID: LCS 180-253679/2-C
Matrix: Solid
Analysis Batch: 253755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253679

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1240		ug/Kg		93	46 - 122		
PCB-1260			1330	1130		ug/Kg		85	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*94*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*

Lab Sample ID: 180-80462-1 MS
Matrix: Solid
Analysis Batch: 253755

Client Sample ID: SSHS-B1282-SUB-0-2
Prep Type: Total/NA
Prep Batch: 253679

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1500	1640		ug/Kg	☼	109	46 - 122		
PCB-1260	120		1500	1280		ug/Kg	☼	78	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-80462-1 MSD
Matrix: Solid
Analysis Batch: 253755

Client Sample ID: SSHS-B1282-SUB-0-2
Prep Type: Total/NA
Prep Batch: 253679

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1500	1690		ug/Kg	☼	112	46 - 122	3	23
PCB-1260	120		1500	1480		ug/Kg	☼	91	51 - 119	14	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*93*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*

Lab Sample ID: MB 180-253825/1-A
Matrix: Solid
Analysis Batch: 254047

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/14/18 14:40	08/16/18 15:31	1
PCB-1221	ND		17	11	ug/Kg		08/14/18 14:40	08/16/18 15:31	1
PCB-1232	ND		17	9.9	ug/Kg		08/14/18 14:40	08/16/18 15:31	1
PCB-1242	ND		17	10	ug/Kg		08/14/18 14:40	08/16/18 15:31	1
PCB-1248	ND		17	13	ug/Kg		08/14/18 14:40	08/16/18 15:31	1
PCB-1254	ND		17	11	ug/Kg		08/14/18 14:40	08/16/18 15:31	1
PCB-1260	ND		17	4.7	ug/Kg		08/14/18 14:40	08/16/18 15:31	1
PCB-1262	ND		17	12	ug/Kg		08/14/18 14:40	08/16/18 15:31	1
PCB-1268	ND		17	8.1	ug/Kg		08/14/18 14:40	08/16/18 15:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*33 - 137*	*08/14/18 14:40*	*08/16/18 15:31*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/14/18 14:40*	*08/16/18 15:31*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*08/14/18 14:40*	*08/16/18 15:31*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*	*08/14/18 14:40*	*08/16/18 15:31*	*1*

Lab Sample ID: LCS 180-253825/2-A
Matrix: Solid
Analysis Batch: 254173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253825

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1210		ug/Kg		91	46 - 122		
PCB-1260			1330	1160		ug/Kg		87	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-80462-10 MS
Matrix: Solid
Analysis Batch: 254173

Client Sample ID: E-N-8-2
Prep Type: Total/NA
Prep Batch: 253825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND	F1	1510	4500	F1	ug/Kg	☼	298	46 - 122
PCB-1260	760		1510	2250		ug/Kg	☼	99	51 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*100*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*

Lab Sample ID: 180-80462-10 MSD
Matrix: Solid
Analysis Batch: 254173

Client Sample ID: E-N-8-2
Prep Type: Total/NA
Prep Batch: 253825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1	1510	4730	F1	ug/Kg	☼	313	46 - 122	5	23
PCB-1260	760		1510	2460		ug/Kg	☼	113	51 - 119	9	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*110*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*107*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*105*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*

Method: EPA 6010C - Metals (ICP)

Lab Sample ID: MB 180-253070/1-A
Matrix: Solid
Analysis Batch: 254253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	2.8	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Antimony	ND		1.0	0.34	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Arsenic	ND		1.0	0.28	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Barium	ND		20	1.1	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Beryllium	ND		0.40	0.023	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Cadmium	ND		0.50	0.036	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Calcium	ND		500	26	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Chromium	ND		0.50	0.12	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Cobalt	ND		5.0	0.29	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Copper	ND		2.5	0.17	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Iron	ND		10	5.1	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Lead	ND		1.0	0.25	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Magnesium	ND		500	33	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Manganese	ND		1.5	0.16	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Nickel	ND		4.0	0.25	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Potassium	ND		500	35	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Selenium	ND		1.0	0.52	mg/Kg		08/07/18 14:57	08/17/18 09:44	1

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-253070/1-A
Matrix: Solid
Analysis Batch: 254253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.11	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Sodium	ND		500	26	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Thallium	ND		2.0	0.21	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Vanadium	ND		5.0	0.70	mg/Kg		08/07/18 14:57	08/17/18 09:44	1
Zinc	ND		2.0	1.1	mg/Kg		08/07/18 14:57	08/17/18 09:44	1

Lab Sample ID: LCS 180-253070/2-A
Matrix: Solid
Analysis Batch: 254253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	209		mg/Kg		105	80 - 120
Antimony	50.0	51.5		mg/Kg		103	80 - 120
Arsenic	50.0	50.7		mg/Kg		101	80 - 120
Barium	200	204		mg/Kg		102	80 - 120
Beryllium	5.00	5.18		mg/Kg		104	80 - 120
Cadmium	5.00	5.06		mg/Kg		101	80 - 120
Calcium	5000	5090		mg/Kg		102	80 - 120
Chromium	20.0	20.3		mg/Kg		102	80 - 120
Cobalt	50.0	51.7		mg/Kg		103	80 - 120
Copper	25.0	25.2		mg/Kg		101	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	50.0	49.5		mg/Kg		99	80 - 120
Magnesium	5000	5020		mg/Kg		100	80 - 120
Manganese	50.0	50.4		mg/Kg		101	80 - 120
Nickel	50.0	51.3		mg/Kg		103	80 - 120
Potassium	5000	4970		mg/Kg		99	80 - 120
Selenium	50.0	50.8		mg/Kg		102	80 - 120
Silver	5.00	5.00		mg/Kg		100	80 - 120
Sodium	5000	5080		mg/Kg		102	80 - 120
Thallium	50.0	48.5		mg/Kg		97	80 - 120
Vanadium	50.0	51.4		mg/Kg		103	80 - 120
Zinc	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: 180-80462-1 MS
Matrix: Solid
Analysis Batch: 254253

Client Sample ID: SSHS-B1282-SUB-0-2
Prep Type: Total/NA
Prep Batch: 253070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	6800		235	8780	4	mg/Kg	☼	834	75 - 125
Antimony	1.6		58.8	47.4		mg/Kg	☼	78	75 - 125
Arsenic	9.2		58.8	59.6		mg/Kg	☼	86	75 - 125
Barium	140		235	367		mg/Kg	☼	95	75 - 125
Beryllium	0.33	J	5.88	5.42		mg/Kg	☼	87	75 - 125
Cadmium	ND	F1	5.88	4.21	F1	mg/Kg	☼	72	75 - 125
Calcium	23000	F1	5880	32400	F1	mg/Kg	☼	155	75 - 125
Chromium	24		23.5	44.2		mg/Kg	☼	84	75 - 125
Cobalt	7.3		58.8	60.2		mg/Kg	☼	90	75 - 125
Copper	270		29.4	189	4	mg/Kg	☼	-281	75 - 125

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-80462-1 MS — **Client Sample ID: SSHS-B1282-SUB-0-2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 254253 — **Prep Batch: 253070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	40000		118	36100	4	mg/Kg	☼	-3205	75 - 125
Lead	260		58.8	315	4	mg/Kg	☼	99	75 - 125
Magnesium	2900		5880	7900		mg/Kg	☼	85	75 - 125
Manganese	530		58.8	749	4	mg/Kg	☼	376	75 - 125
Nickel	35		58.8	87.9		mg/Kg	☼	89	75 - 125
Potassium	690		5880	6070		mg/Kg	☼	92	75 - 125
Selenium	0.94	J	58.8	49.3		mg/Kg	☼	82	75 - 125
Silver	ND		5.88	5.15		mg/Kg	☼	88	75 - 125
Sodium	280	J	5880	5610		mg/Kg	☼	91	75 - 125
Thallium	ND		58.8	47.7		mg/Kg	☼	81	75 - 125
Vanadium	21		58.8	70.6		mg/Kg	☼	85	75 - 125
Zinc	180	F1	58.8	222		mg/Kg	☼	78	75 - 125

Lab Sample ID: 180-80462-1 MSD — **Client Sample ID: SSHS-B1282-SUB-0-2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 254253 — **Prep Batch: 253070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	6800		221	6140	4	mg/Kg	☼	-305	75 - 125	35	20
Antimony	1.6		55.3	48.0		mg/Kg	☼	84	75 - 125	1	20
Arsenic	9.2		55.3	58.2		mg/Kg	☼	89	75 - 125	2	20
Barium	140		221	351		mg/Kg	☼	94	75 - 125	4	20
Beryllium	0.33	J	5.53	5.19		mg/Kg	☼	88	75 - 125	4	20
Cadmium	ND	F1	5.53	4.24		mg/Kg	☼	77	75 - 125	1	20
Calcium	23000	F1	5530	34000	4	mg/Kg	☼	194	75 - 125	5	20
Chromium	24		22.1	44.5		mg/Kg	☼	91	75 - 125	1	20
Cobalt	7.3		55.3	59.1		mg/Kg	☼	94	75 - 125	2	20
Copper	270		27.7	134	4	mg/Kg	☼	-497	75 - 125	34	20
Iron	40000		111	33600	4	mg/Kg	☼	-5609	75 - 125	7	20
Lead	260		55.3	248	4	mg/Kg	☼	-17	75 - 125	24	20
Magnesium	2900		5530	7470		mg/Kg	☼	83	75 - 125	6	20
Manganese	530		55.3	566	4	mg/Kg	☼	69	75 - 125	28	20
Nickel	35		55.3	78.9		mg/Kg	☼	79	75 - 125	11	20
Potassium	690		5530	5530		mg/Kg	☼	88	75 - 125	9	20
Selenium	0.94	J	55.3	48.6		mg/Kg	☼	86	75 - 125	1	20
Silver	ND		5.53	5.04		mg/Kg	☼	91	75 - 125	2	20
Sodium	280	J	5530	5370		mg/Kg	☼	92	75 - 125	4	20
Thallium	ND		55.3	46.2		mg/Kg	☼	84	75 - 125	3	20
Vanadium	21		55.3	73.0		mg/Kg	☼	95	75 - 125	3	20
Zinc	180	F1	55.3	199	F1	mg/Kg	☼	41	75 - 125	11	20

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-254438/1-A
Matrix: Solid
Analysis Batch: 254600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 254438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/20/18 13:57	08/21/18 16:52	1

Lab Sample ID: LCS 180-254438/2-A
Matrix: Solid
Analysis Batch: 254600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 254438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.470		mg/Kg		113	80 - 120

Lab Sample ID: 180-80462-1 MS
Matrix: Solid
Analysis Batch: 254600

Client Sample ID: SSHS-B1282-SUB-0-2
Prep Type: Total/NA
Prep Batch: 254438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.037		0.157	0.210		mg/Kg	☼	111	80 - 120

Lab Sample ID: 180-80462-1 MSD
Matrix: Solid
Analysis Batch: 254600

Client Sample ID: SSHS-B1282-SUB-0-2
Prep Type: Total/NA
Prep Batch: 254438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.037		0.182	0.246		mg/Kg	☼	115	80 - 120	16	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-80462-3 DU
Matrix: Solid
Analysis Batch: 252940

Client Sample ID: E-2-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.3		16.6		%		15	20
Percent Solids	85.7		83.4		%		3	20

Lab Sample ID: 180-80462-13 DU
Matrix: Solid
Analysis Batch: 252940

Client Sample ID: SSHS-B1346-SUB-4-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.7		10.0		%		16	20
Percent Solids	88.3		90.0		%		2	20

GC Semi VOA

Prep Batch: 253679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1	SSHS-B1282-SUB-0-2	Total/NA	Solid	3541	
180-80462-2	SSHS-B1260-SUB-0-2	Total/NA	Solid	3541	
180-80462-3	E-2-2	Total/NA	Solid	3541	
180-80462-4	E-3-1	Total/NA	Solid	3541	
180-80462-5	E-3-2	Total/NA	Solid	3541	
180-80462-6	SSHS-B1261-SUB-0-2	Total/NA	Solid	3541	
180-80462-7	E-4-2	Total/NA	Solid	3541	
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	3541	
180-80462-9	E-S-7-1	Total/NA	Solid	3541	
MB 180-253679/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-253679/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-80462-1 MS	SSHS-B1282-SUB-0-2	Total/NA	Solid	3541	
180-80462-1 MSD	SSHS-B1282-SUB-0-2	Total/NA	Solid	3541	

Analysis Batch: 253755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1	SSHS-B1282-SUB-0-2	Total/NA	Solid	EPA 8082A	253785
180-80462-2	SSHS-B1260-SUB-0-2	Total/NA	Solid	EPA 8082A	253785
180-80462-3	E-2-2	Total/NA	Solid	EPA 8082A	253785
180-80462-4	E-3-1	Total/NA	Solid	EPA 8082A	253785
180-80462-5	E-3-2	Total/NA	Solid	EPA 8082A	253785
180-80462-6	SSHS-B1261-SUB-0-2	Total/NA	Solid	EPA 8082A	253785
180-80462-9	E-S-7-1	Total/NA	Solid	EPA 8082A	253785
MB 180-253679/1-C	Method Blank	Total/NA	Solid	EPA 8082A	253785
LCS 180-253679/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	253785
180-80462-1 MS	SSHS-B1282-SUB-0-2	Total/NA	Solid	EPA 8082A	253785
180-80462-1 MSD	SSHS-B1282-SUB-0-2	Total/NA	Solid	EPA 8082A	253785

Cleanup Batch: 253783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1	SSHS-B1282-SUB-0-2	Total/NA	Solid	3665A	253679
180-80462-2	SSHS-B1260-SUB-0-2	Total/NA	Solid	3665A	253679
180-80462-3	E-2-2	Total/NA	Solid	3665A	253679
180-80462-4	E-3-1	Total/NA	Solid	3665A	253679
180-80462-5	E-3-2	Total/NA	Solid	3665A	253679
180-80462-6	SSHS-B1261-SUB-0-2	Total/NA	Solid	3665A	253679
180-80462-7	E-4-2	Total/NA	Solid	3665A	253679
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	3665A	253679
180-80462-9	E-S-7-1	Total/NA	Solid	3665A	253679
MB 180-253679/1-C	Method Blank	Total/NA	Solid	3665A	253679
LCS 180-253679/2-C	Lab Control Sample	Total/NA	Solid	3665A	253679
180-80462-1 MS	SSHS-B1282-SUB-0-2	Total/NA	Solid	3665A	253679
180-80462-1 MSD	SSHS-B1282-SUB-0-2	Total/NA	Solid	3665A	253679

Cleanup Batch: 253785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1	SSHS-B1282-SUB-0-2	Total/NA	Solid	3660B	253783
180-80462-2	SSHS-B1260-SUB-0-2	Total/NA	Solid	3660B	253783
180-80462-3	E-2-2	Total/NA	Solid	3660B	253783
180-80462-4	E-3-1	Total/NA	Solid	3660B	253783
180-80462-5	E-3-2	Total/NA	Solid	3660B	253783

GC Semi VOA (Continued)

Cleanup Batch: 253785 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-6	SSHS-B1261-SUB-0-2	Total/NA	Solid	3660B	253783
180-80462-7	E-4-2	Total/NA	Solid	3660B	253783
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	3660B	253783
180-80462-9	E-S-7-1	Total/NA	Solid	3660B	253783
MB 180-253679/1-C	Method Blank	Total/NA	Solid	3660B	253783
LCS 180-253679/2-C	Lab Control Sample	Total/NA	Solid	3660B	253783
180-80462-1 MS	SSHS-B1282-SUB-0-2	Total/NA	Solid	3660B	253783
180-80462-1 MSD	SSHS-B1282-SUB-0-2	Total/NA	Solid	3660B	253783

Prep Batch: 253825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-10	E-N-8-2	Total/NA	Solid	3541	
180-80462-11	E-S-9-1	Total/NA	Solid	3541	
180-80462-12	E-S-9-2	Total/NA	Solid	3541	
180-80462-13	SSHS-B1346-SUB-4-6	Total/NA	Solid	3541	
180-80462-14	E-S-9-4	Total/NA	Solid	3541	
180-80462-15	E-S-1-1	Total/NA	Solid	3541	
180-80462-16	E-S-1-2	Total/NA	Solid	3541	
180-80462-17	E-S-1-3	Total/NA	Solid	3541	
180-80462-18	E-S-1-4	Total/NA	Solid	3541	
180-80462-19	E-S-8-1	Total/NA	Solid	3541	
180-80462-20	E-S-8-2	Total/NA	Solid	3541	
180-80462-21	DUP-1 08032018	Total/NA	Solid	3541	
180-80462-22	DUP-2 08032018	Total/NA	Solid	3541	
MB 180-253825/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-253825/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-80462-10 MS	E-N-8-2	Total/NA	Solid	3541	
180-80462-10 MSD	E-N-8-2	Total/NA	Solid	3541	

Analysis Batch: 253877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-7	E-4-2	Total/NA	Solid	EPA 8082A	253785
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	EPA 8082A	253785

Cleanup Batch: 253956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-10	E-N-8-2	Total/NA	Solid	3665A	253825
180-80462-11	E-S-9-1	Total/NA	Solid	3665A	253825
180-80462-12	E-S-9-2	Total/NA	Solid	3665A	253825
180-80462-13	SSHS-B1346-SUB-4-6	Total/NA	Solid	3665A	253825
180-80462-14	E-S-9-4	Total/NA	Solid	3665A	253825
180-80462-15	E-S-1-1	Total/NA	Solid	3665A	253825
180-80462-16	E-S-1-2	Total/NA	Solid	3665A	253825
180-80462-17	E-S-1-3	Total/NA	Solid	3665A	253825
180-80462-18	E-S-1-4	Total/NA	Solid	3665A	253825
180-80462-19	E-S-8-1	Total/NA	Solid	3665A	253825
180-80462-20	E-S-8-2	Total/NA	Solid	3665A	253825
180-80462-21	DUP-1 08032018	Total/NA	Solid	3665A	253825
180-80462-22	DUP-2 08032018	Total/NA	Solid	3665A	253825
180-80462-10 MS	E-N-8-2	Total/NA	Solid	3665A	253825
180-80462-10 MSD	E-N-8-2	Total/NA	Solid	3665A	253825

Cleanup Batch: 253958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-10	E-N-8-2	Total/NA	Solid	3660B	253956
180-80462-11	E-S-9-1	Total/NA	Solid	3660B	253956
180-80462-12	E-S-9-2	Total/NA	Solid	3660B	253956
180-80462-13	SSHS-B1346-SUB-4-6	Total/NA	Solid	3660B	253956
180-80462-14	E-S-9-4	Total/NA	Solid	3660B	253956
180-80462-15	E-S-1-1	Total/NA	Solid	3660B	253956
180-80462-16	E-S-1-2	Total/NA	Solid	3660B	253956
180-80462-17	E-S-1-3	Total/NA	Solid	3660B	253956
180-80462-18	E-S-1-4	Total/NA	Solid	3660B	253956
180-80462-19	E-S-8-1	Total/NA	Solid	3660B	253956
180-80462-20	E-S-8-2	Total/NA	Solid	3660B	253956
180-80462-21	DUP-1 08032018	Total/NA	Solid	3660B	253956
180-80462-22	DUP-2 08032018	Total/NA	Solid	3660B	253956
180-80462-10 MS	E-N-8-2	Total/NA	Solid	3660B	253956
180-80462-10 MSD	E-N-8-2	Total/NA	Solid	3660B	253956

Analysis Batch: 254047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-11	E-S-9-1	Total/NA	Solid	EPA 8082A	253958
180-80462-12	E-S-9-2	Total/NA	Solid	EPA 8082A	253958
180-80462-13	SSHS-B1346-SUB-4-6	Total/NA	Solid	EPA 8082A	253958
180-80462-16	E-S-1-2	Total/NA	Solid	EPA 8082A	253958
180-80462-17	E-S-1-3	Total/NA	Solid	EPA 8082A	253958
180-80462-18	E-S-1-4	Total/NA	Solid	EPA 8082A	253958
180-80462-21	DUP-1 08032018	Total/NA	Solid	EPA 8082A	253958
180-80462-22	DUP-2 08032018	Total/NA	Solid	EPA 8082A	253958
MB 180-253825/1-A	Method Blank	Total/NA	Solid	EPA 8082A	253825

Analysis Batch: 254173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-10	E-N-8-2	Total/NA	Solid	EPA 8082A	253958
180-80462-14	E-S-9-4	Total/NA	Solid	EPA 8082A	253958
180-80462-15	E-S-1-1	Total/NA	Solid	EPA 8082A	253958
180-80462-19	E-S-8-1	Total/NA	Solid	EPA 8082A	253958
180-80462-20	E-S-8-2	Total/NA	Solid	EPA 8082A	253958
LCS 180-253825/2-A	Lab Control Sample	Total/NA	Solid	EPA 8082A	253825
180-80462-10 MS	E-N-8-2	Total/NA	Solid	EPA 8082A	253958
180-80462-10 MSD	E-N-8-2	Total/NA	Solid	EPA 8082A	253958

Metals

Prep Batch: 253070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1	SSHS-B1282-SUB-0-2	Total/NA	Solid	3050B	
180-80462-2	SSHS-B1260-SUB-0-2	Total/NA	Solid	3050B	
180-80462-6	SSHS-B1261-SUB-0-2	Total/NA	Solid	3050B	
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	3050B	
180-80462-13	SSHS-B1346-SUB-4-6	Total/NA	Solid	3050B	
180-80462-21	DUP-1 08032018	Total/NA	Solid	3050B	
180-80462-22	DUP-2 08032018	Total/NA	Solid	3050B	
MB 180-253070/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-253070/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-80462-1 MS	SSHS-B1282-SUB-0-2	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 253070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1 MSD	SSHS-B1282-SUB-0-2	Total/NA	Solid	3050B	

Analysis Batch: 254253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1	SSHS-B1282-SUB-0-2	Total/NA	Solid	EPA 6010C	253070
180-80462-2	SSHS-B1260-SUB-0-2	Total/NA	Solid	EPA 6010C	253070
180-80462-6	SSHS-B1261-SUB-0-2	Total/NA	Solid	EPA 6010C	253070
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	EPA 6010C	253070
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	EPA 6010C	253070
180-80462-13	SSHS-B1346-SUB-4-6	Total/NA	Solid	EPA 6010C	253070
180-80462-21	DUP-1 08032018	Total/NA	Solid	EPA 6010C	253070
180-80462-22	DUP-2 08032018	Total/NA	Solid	EPA 6010C	253070
MB 180-253070/1-A	Method Blank	Total/NA	Solid	EPA 6010C	253070
LCS 180-253070/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010C	253070
180-80462-1 MS	SSHS-B1282-SUB-0-2	Total/NA	Solid	EPA 6010C	253070
180-80462-1 MSD	SSHS-B1282-SUB-0-2	Total/NA	Solid	EPA 6010C	253070

Prep Batch: 254438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1	SSHS-B1282-SUB-0-2	Total/NA	Solid	7471B	
180-80462-2	SSHS-B1260-SUB-0-2	Total/NA	Solid	7471B	
180-80462-6	SSHS-B1261-SUB-0-2	Total/NA	Solid	7471B	
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	7471B	
180-80462-13	SSHS-B1346-SUB-4-6	Total/NA	Solid	7471B	
180-80462-21	DUP-1 08032018	Total/NA	Solid	7471B	
180-80462-22	DUP-2 08032018	Total/NA	Solid	7471B	
MB 180-254438/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-254438/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-80462-1 MS	SSHS-B1282-SUB-0-2	Total/NA	Solid	7471B	
180-80462-1 MSD	SSHS-B1282-SUB-0-2	Total/NA	Solid	7471B	

Analysis Batch: 254600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1	SSHS-B1282-SUB-0-2	Total/NA	Solid	EPA 7471B	254438
180-80462-2	SSHS-B1260-SUB-0-2	Total/NA	Solid	EPA 7471B	254438
180-80462-6	SSHS-B1261-SUB-0-2	Total/NA	Solid	EPA 7471B	254438
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	EPA 7471B	254438
180-80462-13	SSHS-B1346-SUB-4-6	Total/NA	Solid	EPA 7471B	254438
180-80462-21	DUP-1 08032018	Total/NA	Solid	EPA 7471B	254438
180-80462-22	DUP-2 08032018	Total/NA	Solid	EPA 7471B	254438
MB 180-254438/1-A	Method Blank	Total/NA	Solid	EPA 7471B	254438
LCS 180-254438/2-A	Lab Control Sample	Total/NA	Solid	EPA 7471B	254438
180-80462-1 MS	SSHS-B1282-SUB-0-2	Total/NA	Solid	EPA 7471B	254438
180-80462-1 MSD	SSHS-B1282-SUB-0-2	Total/NA	Solid	EPA 7471B	254438

General Chemistry

Analysis Batch: 252920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-1	SSHS-B1282-SUB-0-2	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 252920 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-2	SSHS-B1260-SUB-0-2	Total/NA	Solid	2540G	

Analysis Batch: 252940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80462-3	E-2-2	Total/NA	Solid	2540G	
180-80462-4	E-3-1	Total/NA	Solid	2540G	
180-80462-5	E-3-2	Total/NA	Solid	2540G	
180-80462-6	SSHS-B1261-SUB-0-2	Total/NA	Solid	2540G	
180-80462-7	E-4-2	Total/NA	Solid	2540G	
180-80462-8	SSHS-B1320-SUB-2-4	Total/NA	Solid	2540G	
180-80462-9	E-S-7-1	Total/NA	Solid	2540G	
180-80462-10	E-N-8-2	Total/NA	Solid	2540G	
180-80462-11	E-S-9-1	Total/NA	Solid	2540G	
180-80462-12	E-S-9-2	Total/NA	Solid	2540G	
180-80462-13	SSHS-B1346-SUB-4-6	Total/NA	Solid	2540G	
180-80462-14	E-S-9-4	Total/NA	Solid	2540G	
180-80462-15	E-S-1-1	Total/NA	Solid	2540G	
180-80462-16	E-S-1-2	Total/NA	Solid	2540G	
180-80462-17	E-S-1-3	Total/NA	Solid	2540G	
180-80462-18	E-S-1-4	Total/NA	Solid	2540G	
180-80462-19	E-S-8-1	Total/NA	Solid	2540G	
180-80462-20	E-S-8-2	Total/NA	Solid	2540G	
180-80462-21	DUP-1 08032018	Total/NA	Solid	2540G	
180-80462-22	DUP-2 08032018	Total/NA	Solid	2540G	
180-80462-3 DU	E-2-2	Total/NA	Solid	2540G	
180-80462-13 DU	SSHS-B1346-SUB-4-6	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Marisa Zellmer + Ashwin Ranna + George Wanjiru	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: Eastern Wall Samples 8/3
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 3
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days): Standard turnaround			
State, Zip: MD, 21044				
Phone: (202) 550-7724	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #:			
Site:	SSOW#:			

Analysis Requested

As directed by sampler, all samples to be analyzed for PCBs TS 8/4/18

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	TAL Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
SSHS-B1282-SUB-0-2	08/03/2018	1125	C	Solid	N	Y	X	X	6	
SSHS-B1260-SUB-0-2		1110	C	Solid	N	N	X	X	3	
e-2-2		1115	C	Solid	N	N	X		2	
e-3-1		1120	C	Solid	N	N	X		2	
e-3-2		1130	C	Solid	N	N	X		2	
~~e-4-1~~		~~1135~~	~~C~~	~~Solid~~	~~N~~	~~N~~	~~X~~			
SSHS-B1261-SUB-0-2		1135	C	Solid	N	N	X	X	3	
e-4-2		1140	C	Solid	N	N	X		2	
SSHS-B1320-SUB-2-4		1145	C	Solid	N	N	X	X	3	
e-S-7-1		1235	C	Solid	N	N	X		2	
e-N-8-2		1205	C	Solid	N	N	X		2	

← DOMS/MSD copy Ashwin Ranna DNS 8/6/18

180-80462 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo.
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	8/3/2018 / 1800	Geosyntec	[signature]	8-4-18	TAPITI
				11:30	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna Marisa Zellmer George Wanjma	Lab PM: Dunlap, David A	Carrier Tracking No(s):
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	
Company: Geosyntec Consultants, Inc.			
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:		
City: Columbia, MD	TAT Requested (days): Standard Turnaround		
State, Zip: MD, 21044			
Phone: (202) 550-7724	PO #: MN0832D		
Email: akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #:		
Site:	SSOW#:		

COC No: Eastern Wall Samples 8/3
Page: Page 2 of 3
Job #:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	TAL Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	X	
e-S-9-1	08/03/2018	1210 AR ~~1155~~	C	Solid	N	N	X		2	
e-S-9-2		1220 AR ~~1200~~	C	Solid	N	N	X		2	
SaSHS-B1346-SUB-4-6		1225 AR	C	Solid	N	N	X	X	3	
~~e-S-9-3~~				Solid	N					
e-S-9-4		1230	C	Solid	N	N	X		2	
e-S-1-1		1150	C	Solid	N	N	X		2	
e-S-1-2		1240	C	Solid	N	N	X		2	
e-S-1-3		1245	C	Solid	N	N	X		2	
e-S-1-4		1250	C	Solid	N	N	X		2	
e-S-8-1		1155	C	Solid	N	N	X		2	
e-S-8-2		1200	C	Solid	N	N	X		2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	08/03/2018 1800	Geosyntec	[signature]	8-4-18 11:30	TAP, ST

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Marisa Zellmer George Kamau Wanjira Ashwin	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: Eastern wall Samples 8/3
Client Contact: Aron Krasnopoler	Phone: 4126524759	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 3
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days): Standard Turnaround			
State, Zip: MD, 21044				
Phone: (202) 550-7724	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	TAL Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
DUP-1 08032018	08/03/2018	–	C	Solid	N	N	X	X	3	
DUP-2 08032018	08/03/2018	–	C	Solid	N	N	X	X ← analyze metals as per Ashwin Ranna Date 8/6/18	2	
				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	08/03/2018 1800	Geosyntec	[illegible]	8-4-18	TAPit
				11:30	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80462-1

Login Number: 80462
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80512-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/26/2018 3:33:15 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

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Job ID: 180-80512-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80512-1

Receipt
The samples were received on 8/7/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254050 (CCV 180-254050/4) was below criteria for 1 peak for aroclor 1248 on column RTX-CLP1. This peak was not used in the quantitation of sample results for aroclor 1248.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254050 (CCVIS 180-254050/5) was above criteria for 1 peak for aroclor 1016 on both columns. As the CCV was high and aroclor 1016 was not detected in the associated samples, the results were reported.

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

Metals
Method(s) 6010C: Sample E-7-1 (180-80512-3) was analyzed at a dilution for cadmium as the undiluted result was less than the negative reporting limit.

Method(s) 6010C: The matrix spike/matrix spike duplicate (MS/MSD) of sample E-6-1 (180-80512-2) had several recoveries and RPDs between the spikes outside of the control limits. The recoveries of the laboratory control sample were within the control limits.

Method(s) 7471B: The matrix spike duplicate (MSD) of sample E-6-1 (180-80512-2) had the recovery of mercury above the control limits. The RPD between the spikes and the recovery of the laboratory control sample were within the control limits.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80512-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80512-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80512-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80512-1	E-5-1	Solid	08/06/18 09:25	08/07/18 09:00
180-80512-2	E-6-1	Solid	08/06/18 09:30	08/07/18 09:00
180-80512-3	E-7-1	Solid	08/06/18 09:35	08/07/18 09:00
180-80512-4	N-E-0	Solid	08/06/18 09:15	08/07/18 09:00
180-80512-5	N-E-1	Solid	08/06/18 09:20	08/07/18 09:00
180-80512-6	DUP-1	Solid	08/06/18 00:00	08/07/18 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80512-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
EPA 6010C	Metals (ICP)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3050B	Preparation, Metals	SW846	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80512-1

Client Sample ID: E-5-1
Date Collected: 08/06/18 09:25
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253167	08/08/18 12:39	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-5-1
Date Collected: 08/06/18 09:25
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-1
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.98 g	100 mL	253279	08/09/18 10:57	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254317	08/17/18 15:13	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.60 g	100 mL	254441	08/20/18 14:02	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 16:39	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: E-6-1
Date Collected: 08/06/18 09:30
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253195	08/08/18 16:21	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: E-6-1
Date Collected: 08/06/18 09:30
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-2
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.99 g	100 mL	253279	08/09/18 10:57	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254317	08/17/18 15:18	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.61 g	100 mL	254441	08/20/18 14:02	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 16:39	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: E-7-1
Date Collected: 08/06/18 09:35
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253195	08/08/18 16:21	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80512-1

Client Sample ID: E-7-1

Lab Sample ID: 180-80512-3
Date Collected: 08/06/18 09:35
Matrix: Solid
Date Received: 08/07/18 09:00
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.05 g	100 mL	253279	08/09/18 10:57	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254317	08/17/18 16:00	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	3050B			1.05 g	100 mL	253279	08/09/18 10:57	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		2			254401	08/20/18 09:21	RJG	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.58 g	100 mL	254441	08/20/18 14:02	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 16:42	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: N-E-0

Lab Sample ID: 180-80512-4
Date Collected: 08/06/18 09:15
Matrix: Solid
Date Received: 08/07/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253195	08/08/18 16:21	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: N-E-0

Lab Sample ID: 180-80512-4
Date Collected: 08/06/18 09:15
Matrix: Solid
Date Received: 08/07/18 09:00
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253823	08/14/18 13:57	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253951	08/15/18 11:35	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253955	08/15/18 11:37	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254050	08/16/18 17:08	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.04 g	100 mL	253279	08/09/18 10:57	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254317	08/17/18 16:06	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.61 g	100 mL	254441	08/20/18 14:02	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 16:43	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: N-E-1

Lab Sample ID: 180-80512-5
Date Collected: 08/06/18 09:20
Matrix: Solid
Date Received: 08/07/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253199	08/08/18 16:52	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80512-1

Client Sample ID: N-E-1

Date Collected: 08/06/18 09:20
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-5

Matrix: Solid
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	253823	08/14/18 13:57	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253951	08/15/18 11:35	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253955	08/15/18 11:37	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254050	08/16/18 17:29	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.04 g	100 mL	253279	08/09/18 10:57	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254317	08/17/18 16:11	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.60 g	100 mL	254441	08/20/18 14:02	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 16:44	RJR	TAL PIT
	Instrument ID: HGZ									

Client Sample ID: DUP-1

Date Collected: 08/06/18 00:00
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253199	08/08/18 16:52	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-1

Date Collected: 08/06/18 00:00
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-6

Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.97 g	100 mL	253279	08/09/18 10:57	KA	TAL PIT
Total/NA	Analysis	EPA 6010C		1			254317	08/17/18 16:16	RJR	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.76 g	100 mL	254441	08/20/18 14:02	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1			254600	08/21/18 16:45	RJR	TAL PIT
	Instrument ID: HGZ									

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80512-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

KA = Kayla Kalamasz

RJR = Ron Rosenbaum

SAC = Shawn Clemente

Batch Type: Analysis

JMO = John Oravec

RJG = Rob Good

RJR = Ron Rosenbaum

TAM = Tessa Mastalski

Client Sample ID: E-5-1

Date Collected: 08/06/18 09:25
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-1

Matrix: Solid
Percent Solids: 84.9

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		24	3.4	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Antimony	8.9		1.2	0.41	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Arsenic	12		1.2	0.33	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Barium	190		24	1.3	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Beryllium	0.56		0.48	0.028	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Cadmium	ND		0.60	0.044	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Calcium	6000		600	31	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Chromium	30		0.60	0.15	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Cobalt	10		6.0	0.35	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Copper	340		3.0	0.20	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Iron	32000		12	6.1	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Lead	240		1.2	0.30	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Magnesium	3200		600	40	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Manganese	680		1.8	0.20	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Nickel	120		4.8	0.30	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Potassium	1100		600	42	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Selenium	ND		1.2	0.62	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Silver	ND		0.60	0.13	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Sodium	110	J	600	31	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Thallium	ND		2.4	0.25	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Vanadium	20		6.0	0.84	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1
Zinc	280		2.4	1.3	mg/Kg	☼	08/09/18 10:57	08/17/18 15:13	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.039	0.0087	mg/Kg	☼	08/20/18 14:02	08/21/18 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.1		0.1	0.1	%			08/08/18 12:39	1
Percent Solids	84.9		0.1	0.1	%			08/08/18 12:39	1

Client Sample ID: E-6-1

Date Collected: 08/06/18 09:30
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-2

Matrix: Solid
Percent Solids: 90.5

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7700		22	3.2	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Antimony	3.9	F1	1.1	0.38	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Arsenic	9.5		1.1	0.31	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Barium	190		22	1.2	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Beryllium	0.45		0.45	0.026	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Cadmium	ND	F1	0.56	0.041	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Calcium	16000	F1	560	29	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Chromium	38	F1 F2	0.56	0.14	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Cobalt	8.1		5.6	0.33	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Copper	510	F2	2.8	0.19	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Iron	33000		11	5.6	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Lead	500		1.1	0.28	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1

Client Sample ID: E-6-1

Date Collected: 08/06/18 09:30
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-2

Matrix: Solid
Percent Solids: 90.5

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1600		560	37	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Manganese	520	F2	1.7	0.18	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Nickel	140	F1 F2	4.5	0.28	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Potassium	820		560	39	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Selenium	0.99	J	1.1	0.58	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Silver	0.12	J	0.56	0.12	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Sodium	170	J	560	29	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Thallium	ND		2.2	0.23	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Vanadium	20		5.6	0.78	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1
Zinc	210	F1	2.2	1.2	mg/Kg	☼	08/09/18 10:57	08/17/18 15:18	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.078	F1	0.036	0.0080	mg/Kg	☼	08/20/18 14:02	08/21/18 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.1	%			08/08/18 16:21	1
Percent Solids	90.5		0.1	0.1	%			08/08/18 16:21	1

Client Sample ID: E-7-1

Date Collected: 08/06/18 09:35
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-3

Matrix: Solid
Percent Solids: 84.9

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8900		22	3.2	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Antimony	2.3		1.1	0.38	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Arsenic	16		1.1	0.31	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Barium	180		22	1.2	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Beryllium	1.2		0.45	0.026	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Cadmium	ND		1.1	0.082	mg/Kg	☼	08/09/18 10:57	08/20/18 09:21	2
Calcium	2100		560	29	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Chromium	37		0.56	0.14	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Cobalt	13		5.6	0.33	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Copper	1900		2.8	0.19	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Iron	45000		11	5.7	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Lead	340		1.1	0.28	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Magnesium	2000		560	37	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Manganese	650		1.7	0.18	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Nickel	290		4.5	0.28	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Potassium	880		560	39	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Selenium	1.0	J	1.1	0.58	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Silver	0.23	J	0.56	0.12	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Sodium	150	J	560	29	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Thallium	ND		2.2	0.23	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Vanadium	20		5.6	0.78	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1
Zinc	200		2.2	1.2	mg/Kg	☼	08/09/18 10:57	08/17/18 16:00	1

Client Sample ID: E-7-1

Lab Sample ID: 180-80512-3
Date Collected: 08/06/18 09:35
Matrix: Solid
Date Received: 08/07/18 09:00
Percent Solids: 84.9

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.040	0.0090	mg/Kg	☼	08/20/18 14:02	08/21/18 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.1		0.1	0.1	%			08/08/18 16:21	1
Percent Solids	84.9		0.1	0.1	%			08/08/18 16:21	1

Client Sample ID: N-E-0

Lab Sample ID: 180-80512-4
Date Collected: 08/06/18 09:15
Matrix: Solid
Date Received: 08/07/18 09:00
Percent Solids: 83.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.5	ug/Kg	☼	08/14/18 13:57	08/16/18 17:08	1
PCB-1221	ND		20	13	ug/Kg	☼	08/14/18 13:57	08/16/18 17:08	1
PCB-1232	ND		20	12	ug/Kg	☼	08/14/18 13:57	08/16/18 17:08	1
PCB-1242	ND		20	12	ug/Kg	☼	08/14/18 13:57	08/16/18 17:08	1
PCB-1248	160		20	16	ug/Kg	☼	08/14/18 13:57	08/16/18 17:08	1
PCB-1254	110		20	14	ug/Kg	☼	08/14/18 13:57	08/16/18 17:08	1
PCB-1260	32		20	5.7	ug/Kg	☼	08/14/18 13:57	08/16/18 17:08	1
PCB-1262	ND		20	14	ug/Kg	☼	08/14/18 13:57	08/16/18 17:08	1
PCB-1268	ND		20	9.7	ug/Kg	☼	08/14/18 13:57	08/16/18 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*08/14/18 13:57*	*08/16/18 17:08*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*08/14/18 13:57*	*08/16/18 17:08*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*08/14/18 13:57*	*08/16/18 17:08*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*08/14/18 13:57*	*08/16/18 17:08*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		23	3.3	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Antimony	1.5		1.2	0.39	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Arsenic	6.9		1.2	0.32	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Barium	780		23	1.2	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Beryllium	0.40	J	0.46	0.026	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Cadmium	ND		0.58	0.042	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Calcium	18000		580	30	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Chromium	22		0.58	0.14	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Cobalt	8.8		5.8	0.34	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Copper	340		2.9	0.19	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Iron	38000		12	5.8	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Lead	290		1.2	0.28	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Magnesium	2000		580	38	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Manganese	540		1.7	0.19	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Nickel	160		4.6	0.29	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Potassium	800		580	40	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Selenium	0.65	J	1.2	0.59	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Silver	ND		0.58	0.12	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Sodium	520	J	580	30	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1

Client Sample ID: N-E-0

Date Collected: 08/06/18 09:15
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-4
Matrix: Solid
Percent Solids: 83.6

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		2.3	0.24	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Vanadium	**21**		5.8	0.80	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1
Zinc	**140**		2.3	1.2	mg/Kg	☼	08/09/18 10:57	08/17/18 16:06	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**	**J**	0.039	0.0087	mg/Kg	☼	08/20/18 14:02	08/21/18 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.4**		0.1	0.1	%			08/08/18 16:21	1
Percent Solids	**83.6**		0.1	0.1	%			08/08/18 16:21	1

Client Sample ID: N-E-1

Date Collected: 08/06/18 09:20
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-5
Matrix: Solid
Percent Solids: 85.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/14/18 13:57	08/16/18 17:29	1
PCB-1221	ND		19	12	ug/Kg	☼	08/14/18 13:57	08/16/18 17:29	1
PCB-1232	ND		19	11	ug/Kg	☼	08/14/18 13:57	08/16/18 17:29	1
PCB-1242	ND		19	11	ug/Kg	☼	08/14/18 13:57	08/16/18 17:29	1
PCB-1248	**340**		19	15	ug/Kg	☼	08/14/18 13:57	08/16/18 17:29	1
PCB-1254	**180**		19	13	ug/Kg	☼	08/14/18 13:57	08/16/18 17:29	1
PCB-1260	**48**		19	5.4	ug/Kg	☼	08/14/18 13:57	08/16/18 17:29	1
PCB-1262	ND		19	13	ug/Kg	☼	08/14/18 13:57	08/16/18 17:29	1
PCB-1268	ND		19	9.2	ug/Kg	☼	08/14/18 13:57	08/16/18 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*08/14/18 13:57*	*08/16/18 17:29*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*08/14/18 13:57*	*08/16/18 17:29*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*08/14/18 13:57*	*08/16/18 17:29*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*08/14/18 13:57*	*08/16/18 17:29*	*1*

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9800**		23	3.2	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Antimony	**2.2**		1.1	0.38	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Arsenic	**6.9**		1.1	0.31	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Barium	**290**		23	1.2	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Beryllium	**0.41**	**J**	0.45	0.026	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Cadmium	ND		0.56	0.041	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Calcium	**2400**		560	29	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Chromium	**23**		0.56	0.14	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Cobalt	**8.0**		5.6	0.33	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Copper	**280**		2.8	0.19	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Iron	**24000**		11	5.7	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Lead	**270**		1.1	0.28	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Magnesium	**2300**		560	37	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Manganese	**520**		1.7	0.18	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1

Client Sample ID: N-E-1

Date Collected: 08/06/18 09:20
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-5
Matrix: Solid
Percent Solids: 85.2

Method: EPA 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	150		4.5	0.28	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Potassium	850		560	39	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Selenium	ND		1.1	0.58	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Silver	ND		0.56	0.12	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Sodium	480	J	560	29	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Thallium	0.26	J	2.3	0.24	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Vanadium	16		5.6	0.79	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1
Zinc	130		2.3	1.2	mg/Kg	☼	08/09/18 10:57	08/17/18 16:11	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.039	0.0087	mg/Kg	☼	08/20/18 14:02	08/21/18 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.8		0.1	0.1	%			08/08/18 16:52	1
Percent Solids	85.2		0.1	0.1	%			08/08/18 16:52	1

Client Sample ID: DUP-1

Date Collected: 08/06/18 00:00
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-6
Matrix: Solid
Percent Solids: 84.8

Method: EPA 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		24	3.5	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Antimony	2.5		1.2	0.41	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Arsenic	9.4		1.2	0.34	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Barium	160		24	1.3	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Beryllium	0.56		0.49	0.028	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Cadmium	ND		0.61	0.044	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Calcium	8700		610	32	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Chromium	25		0.61	0.15	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Cobalt	9.5		6.1	0.36	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Copper	220		3.0	0.20	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Iron	26000		12	6.1	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Lead	610		1.2	0.30	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Magnesium	3200		610	40	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Manganese	540		1.8	0.20	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Nickel	110		4.9	0.30	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Potassium	1000		610	42	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Selenium	ND		1.2	0.63	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Silver	ND		0.61	0.13	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Sodium	96	J	610	32	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Thallium	ND		2.4	0.25	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Vanadium	17		6.1	0.85	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1
Zinc	160		2.4	1.3	mg/Kg	☼	08/09/18 10:57	08/17/18 16:16	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.031	0.0069	mg/Kg	☼	08/20/18 14:02	08/21/18 16:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80512-1

Client Sample ID: DUP-1
Date Collected: 08/06/18 00:00
Date Received: 08/07/18 09:00

Lab Sample ID: 180-80512-6
Matrix: Solid
Percent Solids: 84.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.2		0.1	0.1	%			08/08/18 16:52	1
Percent Solids	84.8		0.1	0.1	%			08/08/18 16:52	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-253823/1-A
Matrix: Solid
Analysis Batch: 254050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/14/18 13:57	08/16/18 11:27	1
PCB-1221	ND		17	11	ug/Kg		08/14/18 13:57	08/16/18 11:27	1
PCB-1232	ND		17	9.9	ug/Kg		08/14/18 13:57	08/16/18 11:27	1
PCB-1242	ND		17	10	ug/Kg		08/14/18 13:57	08/16/18 11:27	1
PCB-1248	ND		17	13	ug/Kg		08/14/18 13:57	08/16/18 11:27	1
PCB-1254	ND		17	11	ug/Kg		08/14/18 13:57	08/16/18 11:27	1
PCB-1260	ND		17	4.7	ug/Kg		08/14/18 13:57	08/16/18 11:27	1
PCB-1262	ND		17	12	ug/Kg		08/14/18 13:57	08/16/18 11:27	1
PCB-1268	ND		17	8.1	ug/Kg		08/14/18 13:57	08/16/18 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/14/18 13:57*	*08/16/18 11:27*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*	*08/14/18 13:57*	*08/16/18 11:27*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*	*08/14/18 13:57*	*08/16/18 11:27*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*08/14/18 13:57*	*08/16/18 11:27*	*1*

Lab Sample ID: LCS 180-253823/2-A
Matrix: Solid
Analysis Batch: 254050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253823

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1160		ug/Kg		87	46 - 122		
PCB-1260			1330	1170		ug/Kg		87	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*

Method: EPA 6010C - Metals (ICP)

Lab Sample ID: MB 180-253279/1-A
Matrix: Solid
Analysis Batch: 254317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	2.8	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Antimony	ND		1.0	0.34	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Arsenic	ND		1.0	0.28	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Barium	ND		20	1.1	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Beryllium	ND		0.40	0.023	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Cadmium	ND		0.50	0.036	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Calcium	ND		500	26	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Chromium	ND		0.50	0.12	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Cobalt	ND		5.0	0.29	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Copper	ND		2.5	0.17	mg/Kg		08/09/18 10:57	08/17/18 15:03	1

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-253279/1-A
Matrix: Solid
Analysis Batch: 254317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		10	5.1	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Lead	ND		1.0	0.25	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Magnesium	ND		500	33	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Manganese	ND		1.5	0.16	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Nickel	ND		4.0	0.25	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Potassium	ND		500	35	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Selenium	ND		1.0	0.52	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Silver	ND		0.50	0.11	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Sodium	ND		500	26	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Thallium	ND		2.0	0.21	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Vanadium	ND		5.0	0.70	mg/Kg		08/09/18 10:57	08/17/18 15:03	1
Zinc	ND		2.0	1.1	mg/Kg		08/09/18 10:57	08/17/18 15:03	1

Lab Sample ID: LCS 180-253279/2-A
Matrix: Solid
Analysis Batch: 254317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	198		mg/Kg		99	80 - 120
Antimony	50.0	49.1		mg/Kg		98	80 - 120
Arsenic	50.0	47.6		mg/Kg		95	80 - 120
Barium	200	195		mg/Kg		98	80 - 120
Beryllium	5.00	5.01		mg/Kg		100	80 - 120
Cadmium	5.00	4.78		mg/Kg		96	80 - 120
Calcium	5000	4860		mg/Kg		97	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	49.1		mg/Kg		98	80 - 120
Copper	25.0	24.2		mg/Kg		97	80 - 120
Iron	100	99.9		mg/Kg		100	80 - 120
Lead	50.0	46.4		mg/Kg		93	80 - 120
Magnesium	5000	4770		mg/Kg		95	80 - 120
Manganese	50.0	47.9		mg/Kg		96	80 - 120
Nickel	50.0	48.5		mg/Kg		97	80 - 120
Potassium	5000	4840		mg/Kg		97	80 - 120
Selenium	50.0	47.6		mg/Kg		95	80 - 120
Silver	5.00	4.68		mg/Kg		94	80 - 120
Sodium	5000	4960		mg/Kg		99	80 - 120
Thallium	50.0	45.2		mg/Kg		90	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	48.2		mg/Kg		96	80 - 120

Lab Sample ID: 180-80512-2 MS
Matrix: Solid
Analysis Batch: 254317

Client Sample ID: E-6-1
Prep Type: Total/NA
Prep Batch: 253279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	7700		221	12800	4	mg/Kg	☼	2292	75 - 125
Antimony	3.9	F1	55.2	42.0	F1	mg/Kg	☼	69	75 - 125
Arsenic	9.5		55.2	57.7		mg/Kg	☼	87	75 - 125

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-80512-2 MS
Matrix: Solid
Analysis Batch: 254317

Client Sample ID: E-6-1
Prep Type: Total/NA
Prep Batch: 253279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	190		221	365		mg/Kg	☼	81	75 - 125
Beryllium	0.45		5.52	5.46		mg/Kg	☼	91	75 - 125
Cadmium	ND	F1	5.52	4.09	F1	mg/Kg	☼	74	75 - 125
Calcium	16000	F1	5520	9150	F1	mg/Kg	☼	-122	75 - 125
Chromium	38	F1 F2	22.1	49.5	F1	mg/Kg	☼	54	75 - 125
Cobalt	8.1		55.2	61.0		mg/Kg	☼	96	75 - 125
Copper	510	F2	27.6	365	4	mg/Kg	☼	-522	75 - 125
Iron	33000		110	31000	4	mg/Kg	☼	-1881	75 - 125
Lead	500		55.2	520	4	mg/Kg	☼	38	75 - 125
Magnesium	1600		5520	6920		mg/Kg	☼	96	75 - 125
Manganese	520	F2	55.2	551	4	mg/Kg	☼	49	75 - 125
Nickel	140	F1 F2	55.2	164	F1	mg/Kg	☼	44	75 - 125
Potassium	820		5520	6460		mg/Kg	☼	102	75 - 125
Selenium	0.99	J	55.2	46.3		mg/Kg	☼	82	75 - 125
Silver	0.12	J	5.52	4.82		mg/Kg	☼	87	75 - 125
Sodium	170	J	5520	5140		mg/Kg	☼	90	75 - 125
Thallium	ND		55.2	46.2		mg/Kg	☼	84	75 - 125
Vanadium	20		55.2	70.5		mg/Kg	☼	92	75 - 125
Zinc	210	F1	55.2	227	F1	mg/Kg	☼	30	75 - 125

Lab Sample ID: 180-80512-2 MSD
Matrix: Solid
Analysis Batch: 254317

Client Sample ID: E-6-1
Prep Type: Total/NA
Prep Batch: 253279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	7700		233	11700	4	mg/Kg	☼	1693	75 - 125	9	20
Antimony	3.9	F1	58.1	48.5		mg/Kg	☼	77	75 - 125	14	20
Arsenic	9.5		58.1	63.5		mg/Kg	☼	93	75 - 125	10	20
Barium	190		233	408		mg/Kg	☼	95	75 - 125	11	20
Beryllium	0.45		5.81	5.81		mg/Kg	☼	92	75 - 125	6	20
Cadmium	ND	F1	5.81	4.39		mg/Kg	☼	75	75 - 125	7	20
Calcium	16000	F1	5810	11000	F1	mg/Kg	☼	-85	75 - 125	18	20
Chromium	38	F1 F2	23.3	62.1	F2	mg/Kg	☼	105	75 - 125	22	20
Cobalt	8.1		58.1	65.4		mg/Kg	☼	98	75 - 125	7	20
Copper	510	F2	29.1	662	4 F2	mg/Kg	☼	528	75 - 125	58	20
Iron	33000		116	34700	4	mg/Kg	☼	1438	75 - 125	11	20
Lead	500		58.1	498	4	mg/Kg	☼	-2	75 - 125	4	20
Magnesium	1600		5810	7100		mg/Kg	☼	94	75 - 125	2	20
Manganese	520	F2	58.1	799	4 F2	mg/Kg	☼	474	75 - 125	37	20
Nickel	140	F1 F2	58.1	217	F1 F2	mg/Kg	☼	133	75 - 125	28	20
Potassium	820		5810	6420		mg/Kg	☼	96	75 - 125	1	20
Selenium	0.99	J	58.1	50.5		mg/Kg	☼	85	75 - 125	9	20
Silver	0.12	J	5.81	5.16		mg/Kg	☼	89	75 - 125	7	20
Sodium	170	J	5810	5450		mg/Kg	☼	91	75 - 125	6	20
Thallium	ND		58.1	49.4		mg/Kg	☼	85	75 - 125	7	20
Vanadium	20		58.1	74.0		mg/Kg	☼	93	75 - 125	5	20
Zinc	210	F1	58.1	249	F1	mg/Kg	☼	65	75 - 125	9	20

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-254441/1-A
Matrix: Solid
Analysis Batch: 254600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 254441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/20/18 14:02	08/21/18 16:37	1

Lab Sample ID: LCS 180-254441/2-A
Matrix: Solid
Analysis Batch: 254600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 254441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.410	0.467		mg/Kg		114	80 - 120

Lab Sample ID: 180-80512-2 MS
Matrix: Solid
Analysis Batch: 254600

Client Sample ID: E-6-1
Prep Type: Total/NA
Prep Batch: 254441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.078	F1	0.175	0.254		mg/Kg	☼	100	80 - 120

Lab Sample ID: 180-80512-2 MSD
Matrix: Solid
Analysis Batch: 254600

Client Sample ID: E-6-1
Prep Type: Total/NA
Prep Batch: 254441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.078	F1	0.160	0.276	F1	mg/Kg	☼	124	80 - 120	9	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-80512-5 DU
Matrix: Solid
Analysis Batch: 253199

Client Sample ID: N-E-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.8		15.1		%		2	20
Percent Solids	85.2		84.9		%		0.4	20

GC Semi VOA

Prep Batch: 253823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-4	N-E-0	Total/NA	Solid	3541	
180-80512-5	N-E-1	Total/NA	Solid	3541	
MB 180-253823/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-253823/2-A	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 253951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-4	N-E-0	Total/NA	Solid	3665A	253823
180-80512-5	N-E-1	Total/NA	Solid	3665A	253823

Cleanup Batch: 253955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-4	N-E-0	Total/NA	Solid	3660B	253951
180-80512-5	N-E-1	Total/NA	Solid	3660B	253951

Analysis Batch: 254050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-4	N-E-0	Total/NA	Solid	EPA 8082A	253955
180-80512-5	N-E-1	Total/NA	Solid	EPA 8082A	253955
MB 180-253823/1-A	Method Blank	Total/NA	Solid	EPA 8082A	253823
LCS 180-253823/2-A	Lab Control Sample	Total/NA	Solid	EPA 8082A	253823

Metals

Prep Batch: 253279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-1	E-5-1	Total/NA	Solid	3050B	
180-80512-2	E-6-1	Total/NA	Solid	3050B	
180-80512-3	E-7-1	Total/NA	Solid	3050B	
180-80512-4	N-E-0	Total/NA	Solid	3050B	
180-80512-5	N-E-1	Total/NA	Solid	3050B	
180-80512-6	DUP-1	Total/NA	Solid	3050B	
MB 180-253279/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-253279/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-80512-2 MS	E-6-1	Total/NA	Solid	3050B	
180-80512-2 MSD	E-6-1	Total/NA	Solid	3050B	

Analysis Batch: 254317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-1	E-5-1	Total/NA	Solid	EPA 6010C	253279
180-80512-2	E-6-1	Total/NA	Solid	EPA 6010C	253279
180-80512-3	E-7-1	Total/NA	Solid	EPA 6010C	253279
180-80512-4	N-E-0	Total/NA	Solid	EPA 6010C	253279
180-80512-5	N-E-1	Total/NA	Solid	EPA 6010C	253279
180-80512-6	DUP-1	Total/NA	Solid	EPA 6010C	253279
MB 180-253279/1-A	Method Blank	Total/NA	Solid	EPA 6010C	253279
LCS 180-253279/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010C	253279
180-80512-2 MS	E-6-1	Total/NA	Solid	EPA 6010C	253279
180-80512-2 MSD	E-6-1	Total/NA	Solid	EPA 6010C	253279

Metals (Continued)

Analysis Batch: 254401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-3	E-7-1	Total/NA	Solid	EPA 6010C	253279

Prep Batch: 254441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-1	E-5-1	Total/NA	Solid	7471B	
180-80512-2	E-6-1	Total/NA	Solid	7471B	
180-80512-3	E-7-1	Total/NA	Solid	7471B	
180-80512-4	N-E-0	Total/NA	Solid	7471B	
180-80512-5	N-E-1	Total/NA	Solid	7471B	
180-80512-6	DUP-1	Total/NA	Solid	7471B	
MB 180-254441/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-254441/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-80512-2 MS	E-6-1	Total/NA	Solid	7471B	
180-80512-2 MSD	E-6-1	Total/NA	Solid	7471B	

Analysis Batch: 254600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-1	E-5-1	Total/NA	Solid	EPA 7471B	254441
180-80512-2	E-6-1	Total/NA	Solid	EPA 7471B	254441
180-80512-3	E-7-1	Total/NA	Solid	EPA 7471B	254441
180-80512-4	N-E-0	Total/NA	Solid	EPA 7471B	254441
180-80512-5	N-E-1	Total/NA	Solid	EPA 7471B	254441
180-80512-6	DUP-1	Total/NA	Solid	EPA 7471B	254441
MB 180-254441/1-A	Method Blank	Total/NA	Solid	EPA 7471B	254441
LCS 180-254441/2-A	Lab Control Sample	Total/NA	Solid	EPA 7471B	254441
180-80512-2 MS	E-6-1	Total/NA	Solid	EPA 7471B	254441
180-80512-2 MSD	E-6-1	Total/NA	Solid	EPA 7471B	254441

General Chemistry

Analysis Batch: 253167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-1	E-5-1	Total/NA	Solid	2540G	

Analysis Batch: 253195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-2	E-6-1	Total/NA	Solid	2540G	
180-80512-3	E-7-1	Total/NA	Solid	2540G	
180-80512-4	N-E-0	Total/NA	Solid	2540G	

Analysis Batch: 253199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80512-5	N-E-1	Total/NA	Solid	2540G	
180-80512-6	DUP-1	Total/NA	Solid	2540G	
180-80512-5 DU	N-E-1	Total/NA	Solid	2540G	

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna, George Wang, Marisa Zellmer	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: North/East Sidewall
Client Contact: Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.		Analysis Requested		Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			Preservation Codes:
City: Columbia, MD	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MD, 21044	PO #: MN0832D			
Phone: (202) 550-7724	WO #:			Other:
Email: akrasnopoler@geosyntec.com	Project #:			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site: EHS				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TAL metals + Cyanide (no Cyanide as per Ashwin Ranna)	8082A PCB's	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
E-5-1	8/6/2018	0925	C	Solid	N	N	X		3	
E-6-1		0930	C	Solid	N	Y	X		6	Perform MS/MSD
E-7-1		0935	C	Solid	N	N	X		3	
N-E-0		0915	C	Solid	N	N	X	X	3	
N-E-1		0920	C	Solid	N	N	X	X	3	
DUP-1		—	C	Solid	N	N	X		3	
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

180-80512 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sa
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	08/06/2018 1845	Geosyntec		8-7-18	TA Pitt
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:00	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80512-1

Login Number: 80512
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80546-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/26/2018 3:54:34 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

Table of Contents

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Job ID: 180-80546-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80546-1

Comments
Notation was made to the chain of custody regarding the analyses of samples.

Receipt
The samples were received on 8/8/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254176 (CCV 180-254176/1) was below criteria for 2 peaks for aroclor 1254 on column RTX-CLP2. The associated sample results for aroclor 1254 were reported from column RTX-CLP1 which met criteria.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254176 (CCV 180-254176/4) was below criteria for 1 peak for aroclor 1248 on column RTX-CLP1. This peak was not used in the quantitation of sample results for aroclor 1248.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80546-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80546-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80546-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80546-1	PW-1	Solid	08/07/18 16:30	08/08/18 09:00
180-80546-2	PE-1	Solid	08/07/18 16:35	08/08/18 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80546-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80546-1

Client Sample ID: PW-1
Date Collected: 08/07/18 16:30
Date Received: 08/08/18 09:00

Lab Sample ID: 180-80546-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253199	08/08/18 16:52	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PW-1
Date Collected: 08/07/18 16:30
Date Received: 08/08/18 09:00

Lab Sample ID: 180-80546-1
Matrix: Solid
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253838	08/14/18 15:50	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253960	08/15/18 11:42	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253961	08/15/18 11:43	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1	1 uL	1.0 mL	254176	08/17/18 07:55	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PE-1
Date Collected: 08/07/18 16:35
Date Received: 08/08/18 09:00

Lab Sample ID: 180-80546-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253199	08/08/18 16:52	TAM	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PE-1
Date Collected: 08/07/18 16:35
Date Received: 08/08/18 09:00

Lab Sample ID: 180-80546-2
Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253838	08/14/18 15:50	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	253960	08/15/18 11:42	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	253961	08/15/18 11:43	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254176	08/17/18 08:17	JMO	TAL PIT
	Instrument ID: CHGC16									

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80546-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

SAC = Shawn Clemente

Batch Type: Analysis

JMO = John Oravec

TAM = Tessa Mastalski

Client Sample ID: PW-1

Lab Sample ID: 180-80546-1
Date Collected: 08/07/18 16:30
Matrix: Solid
Date Received: 08/08/18 09:00
Percent Solids: 82.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	08/14/18 15:50	08/17/18 07:55	1
PCB-1221	ND		20	13	ug/Kg	☼	08/14/18 15:50	08/17/18 07:55	1
PCB-1232	ND		20	12	ug/Kg	☼	08/14/18 15:50	08/17/18 07:55	1
PCB-1242	ND		20	12	ug/Kg	☼	08/14/18 15:50	08/17/18 07:55	1
PCB-1248	**610**		20	16	ug/Kg	☼	08/14/18 15:50	08/17/18 07:55	1
PCB-1254	**210**		20	14	ug/Kg	☼	08/14/18 15:50	08/17/18 07:55	1
PCB-1260	**43**		20	5.7	ug/Kg	☼	08/14/18 15:50	08/17/18 07:55	1
PCB-1262	ND		20	14	ug/Kg	☼	08/14/18 15:50	08/17/18 07:55	1
PCB-1268	ND		20	9.8	ug/Kg	☼	08/14/18 15:50	08/17/18 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*08/14/18 15:50*	*08/17/18 07:55*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*08/14/18 15:50*	*08/17/18 07:55*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/14/18 15:50*	*08/17/18 07:55*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*08/14/18 15:50*	*08/17/18 07:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.4**		0.1	0.1	%			08/08/18 16:52	1
Percent Solids	**82.6**		0.1	0.1	%			08/08/18 16:52	1

Client Sample ID: PE-1

Lab Sample ID: 180-80546-2
Date Collected: 08/07/18 16:35
Matrix: Solid
Date Received: 08/08/18 09:00
Percent Solids: 85.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.3	ug/Kg	☼	08/14/18 15:50	08/17/18 08:17	1
PCB-1221	ND		19	12	ug/Kg	☼	08/14/18 15:50	08/17/18 08:17	1
PCB-1232	ND		19	11	ug/Kg	☼	08/14/18 15:50	08/17/18 08:17	1
PCB-1242	ND		19	12	ug/Kg	☼	08/14/18 15:50	08/17/18 08:17	1
PCB-1248	**170**		19	15	ug/Kg	☼	08/14/18 15:50	08/17/18 08:17	1
PCB-1254	**47**		19	13	ug/Kg	☼	08/14/18 15:50	08/17/18 08:17	1
PCB-1260	**11**	**J**	19	5.5	ug/Kg	☼	08/14/18 15:50	08/17/18 08:17	1
PCB-1262	ND		19	14	ug/Kg	☼	08/14/18 15:50	08/17/18 08:17	1
PCB-1268	ND		19	9.4	ug/Kg	☼	08/14/18 15:50	08/17/18 08:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*33 - 137*	*08/14/18 15:50*	*08/17/18 08:17*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*33 - 137*	*08/14/18 15:50*	*08/17/18 08:17*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*08/14/18 15:50*	*08/17/18 08:17*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*08/14/18 15:50*	*08/17/18 08:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.1**		0.1	0.1	%			08/08/18 16:52	1
Percent Solids	**85.9**		0.1	0.1	%			08/08/18 16:52	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-253838/1-C
Matrix: Solid
Analysis Batch: 254176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/14/18 15:50	08/17/18 07:33	1
PCB-1221	ND		17	11	ug/Kg		08/14/18 15:50	08/17/18 07:33	1
PCB-1232	ND		17	9.9	ug/Kg		08/14/18 15:50	08/17/18 07:33	1
PCB-1242	ND		17	10	ug/Kg		08/14/18 15:50	08/17/18 07:33	1
PCB-1248	ND		17	13	ug/Kg		08/14/18 15:50	08/17/18 07:33	1
PCB-1254	ND		17	11	ug/Kg		08/14/18 15:50	08/17/18 07:33	1
PCB-1260	ND		17	4.7	ug/Kg		08/14/18 15:50	08/17/18 07:33	1
PCB-1262	ND		17	12	ug/Kg		08/14/18 15:50	08/17/18 07:33	1
PCB-1268	ND		17	8.1	ug/Kg		08/14/18 15:50	08/17/18 07:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*08/14/18 15:50*	*08/17/18 07:33*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*33 - 137*	*08/14/18 15:50*	*08/17/18 07:33*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*44 - 114*	*08/14/18 15:50*	*08/17/18 07:33*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*08/14/18 15:50*	*08/17/18 07:33*	*1*

Lab Sample ID: LCS 180-253838/2-C
Matrix: Solid
Analysis Batch: 254176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253838

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1090		ug/Kg		82	46 - 122		
PCB-1260			1330	1000		ug/Kg		75	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80546-1

GC Semi VOA

Prep Batch: 253838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80546-1	PW-1	Total/NA	Solid	3541	
180-80546-2	PE-1	Total/NA	Solid	3541	
MB 180-253838/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-253838/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 253960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80546-1	PW-1	Total/NA	Solid	3665A	253838
180-80546-2	PE-1	Total/NA	Solid	3665A	253838
MB 180-253838/1-C	Method Blank	Total/NA	Solid	3665A	253838
LCS 180-253838/2-C	Lab Control Sample	Total/NA	Solid	3665A	253838

Cleanup Batch: 253961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80546-1	PW-1	Total/NA	Solid	3660B	253960
180-80546-2	PE-1	Total/NA	Solid	3660B	253960
MB 180-253838/1-C	Method Blank	Total/NA	Solid	3660B	253960
LCS 180-253838/2-C	Lab Control Sample	Total/NA	Solid	3660B	253960

Analysis Batch: 254176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80546-1	PW-1	Total/NA	Solid	EPA 8082A	253961
180-80546-2	PE-1	Total/NA	Solid	EPA 8082A	253961
MB 180-253838/1-C	Method Blank	Total/NA	Solid	EPA 8082A	253961
LCS 180-253838/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	253961

General Chemistry

Analysis Batch: 253199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80546-1	PW-1	Total/NA	Solid	2540G	
180-80546-2	PE-1	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
1 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-80546 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MZ/MS	Lab PM: Dunlap, David A	: No:
Client Contact: Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com	e: Page 1 of
Company: Geosyntec Consultants, Inc.			Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:		
City: Columbia, MD	TAT Requested (days): Standard		
State, Zip: MD, 21044			
Phone: (202) 550-7724	PO #: MN0832D		
Email: akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TAL Metals	TCLP Metals	SVOC's	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A					
PW-1	8/7/18	1655	G	Solid	N	N			X		X				PCB only - std TAT
PE-1	8/7/18	1635	G	Solid	N	N			X		X				PCB only - std TAT
B650-RS-A	8/7/18	1420	G	Solid	N	N	X								← cancel
B650-RS-B	8/7/18	1425	G	Solid	N	N	X								← cancel
B650-RS-C	8/7/18	1430	G	Solid	N	N			X			X	X	3	3 day TAT PCB, TCLP for VOA, semivoa, metals
Trip Blank	8/7/18	1700	—	Solid	N	N				X					← cancel
				Solid	N										↑
				Solid	N										aspen Aron Krasnopoler
				Solid	N										DAD 8/8/18
				Solid	N										
				Solid	N										
				Solid	N										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/7/18 1900	Geosyntec	FedEx	8/7/18 1900	
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 8-8-18	Company TAPT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:00	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80546-1

Login Number: 80546
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80713-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/26/2018 4:25:51 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

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Job ID: 180-80713-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80713-1

Receipt
The samples were received on 8/10/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

GC Semi VOA
Method(s) 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: CS-02 (180-80713-9). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254176 (CCV 180-254176/1) was below criteria for 2 peaks for aroclor 1254 on column RTX-CLP2. The associated sample results for aroclor 1254 were reported from column RTX-CLP1 which met criteria.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254176 (CCV 180-254176/4) was below criteria for 1 peak for aroclor 1248 on column RTX-CLP1. This peak was not used in the quantitation of sample results for aroclor 1248.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254176 (CCVIS 180-254176/28) was above criteria for 1 peak for aroclor 1016 on column RTX-CLP1. As the CCV was high and aroclor 1016 was not detected in the associated samples, the results were reported.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254345 (CCV 180-254345/1) was below criteria for 2 peaks for aroclor 1254 on column RTX-CLP2. These peaks were not used in the quantitation of sample results for aroclor 1254.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254345 (CCVIS 180-254345/5) was above criteria for aroclor 1016 on column RTX-CLP1. As the CCV was high and aroclor 1016 was not detected in the associated sample, the results were reported.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254345 (CCVIS 180-254345/5) was above criteria for 1 peak for aroclor 1260 and surrogate decachlorobiphenyl on column RTX-CLP2. This peak was not used in the quantitation of sample results for aroclor 1260. All surrogate recoveries were within the control limits in the associated sample.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80713-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80713-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80713-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80713-1	WL-01	Solid	08/09/18 15:30	08/10/18 09:00
180-80713-2	WL-02	Solid	08/09/18 15:35	08/10/18 09:00
180-80713-3	WL-03	Solid	08/09/18 15:40	08/10/18 09:00
180-80713-4	WL-04	Solid	08/09/18 15:45	08/10/18 09:00
180-80713-5	P-2	Solid	08/09/18 15:50	08/10/18 09:00
180-80713-6	P-3	Solid	08/09/18 15:55	08/10/18 09:00
180-80713-7	P-4	Solid	08/09/18 16:00	08/10/18 09:00
180-80713-8	CS-01	Solid	08/09/18 16:05	08/10/18 09:00
180-80713-9	CS-02	Solid	08/09/18 16:10	08/10/18 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80713-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80713-1

Client Sample ID: WL-01
Date Collected: 08/09/18 15:30
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253684	08/13/18 15:19	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WL-01
Date Collected: 08/09/18 15:30
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-1
Matrix: Solid
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254176	08/17/18 18:22	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: WL-02
Date Collected: 08/09/18 15:35
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253684	08/13/18 15:19	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WL-02
Date Collected: 08/09/18 15:35
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-2
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254176	08/17/18 18:44	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: WL-03
Date Collected: 08/09/18 15:40
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253684	08/13/18 15:19	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80713-1

Client Sample ID: WL-03
Date Collected: 08/09/18 15:40
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-3
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254176	08/17/18 19:06	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: WL-04
Date Collected: 08/09/18 15:45
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253723	08/14/18 09:02	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WL-04
Date Collected: 08/09/18 15:45
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-4
Matrix: Solid
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254176	08/17/18 20:11	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: P-2
Date Collected: 08/09/18 15:50
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253723	08/14/18 09:02	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: P-2
Date Collected: 08/09/18 15:50
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-5
Matrix: Solid
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254176	08/17/18 20:33	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80713-1

Client Sample ID: P-3
Date Collected: 08/09/18 15:55
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253723	08/14/18 09:02	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: P-3
Date Collected: 08/09/18 15:55
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-6
Matrix: Solid
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254176	08/17/18 20:55	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: P-4
Date Collected: 08/09/18 16:00
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253723	08/14/18 09:02	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: P-4
Date Collected: 08/09/18 16:00
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-7
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254176	08/17/18 21:17	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: CS-01
Date Collected: 08/09/18 16:05
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253723	08/14/18 09:02	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80713-1

Client Sample ID: CS-01

Date Collected: 08/09/18 16:05
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-8

Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254176	08/17/18 21:38	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: CS-02

Date Collected: 08/09/18 16:10
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253723	08/14/18 09:02	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: CS-02

Date Collected: 08/09/18 16:10
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-9

Matrix: Solid
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		5			254345	08/20/18 14:45	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

JMO = John Oravec

Client Sample ID: WL-01

Date Collected: 08/09/18 15:30
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-1
Matrix: Solid
Percent Solids: 95.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.7	ug/Kg	☼	08/15/18 13:28	08/17/18 18:22	1
PCB-1221	ND		17	11	ug/Kg	☼	08/15/18 13:28	08/17/18 18:22	1
PCB-1232	ND		17	10	ug/Kg	☼	08/15/18 13:28	08/17/18 18:22	1
PCB-1242	ND		17	10	ug/Kg	☼	08/15/18 13:28	08/17/18 18:22	1
PCB-1248	**1200**		17	14	ug/Kg	☼	08/15/18 13:28	08/17/18 18:22	1
PCB-1254	**270**		17	12	ug/Kg	☼	08/15/18 13:28	08/17/18 18:22	1
PCB-1260	**72**		17	5.0	ug/Kg	☼	08/15/18 13:28	08/17/18 18:22	1
PCB-1262	ND		17	12	ug/Kg	☼	08/15/18 13:28	08/17/18 18:22	1
PCB-1268	ND		17	8.4	ug/Kg	☼	08/15/18 13:28	08/17/18 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*108*		*33 - 137*	*08/15/18 13:28*	*08/17/18 18:22*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*33 - 137*	*08/15/18 13:28*	*08/17/18 18:22*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*	*08/15/18 13:28*	*08/17/18 18:22*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*	*08/15/18 13:28*	*08/17/18 18:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.9**		0.1	0.1	%			08/13/18 15:19	1
Percent Solids	**95.1**		0.1	0.1	%			08/13/18 15:19	1

Client Sample ID: WL-02

Date Collected: 08/09/18 15:35
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-2
Matrix: Solid
Percent Solids: 80.7

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	08/15/18 13:28	08/17/18 18:44	1
PCB-1221	ND		20	13	ug/Kg	☼	08/15/18 13:28	08/17/18 18:44	1
PCB-1232	ND		20	12	ug/Kg	☼	08/15/18 13:28	08/17/18 18:44	1
PCB-1242	ND		20	12	ug/Kg	☼	08/15/18 13:28	08/17/18 18:44	1
PCB-1248	**150**		20	16	ug/Kg	☼	08/15/18 13:28	08/17/18 18:44	1
PCB-1254	**38**		20	14	ug/Kg	☼	08/15/18 13:28	08/17/18 18:44	1
PCB-1260	ND		20	5.8	ug/Kg	☼	08/15/18 13:28	08/17/18 18:44	1
PCB-1262	ND		20	14	ug/Kg	☼	08/15/18 13:28	08/17/18 18:44	1
PCB-1268	ND		20	9.9	ug/Kg	☼	08/15/18 13:28	08/17/18 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/15/18 13:28*	*08/17/18 18:44*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*33 - 137*	*08/15/18 13:28*	*08/17/18 18:44*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/15/18 13:28*	*08/17/18 18:44*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*44 - 114*	*08/15/18 13:28*	*08/17/18 18:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.3**		0.1	0.1	%			08/13/18 15:19	1
Percent Solids	**80.7**		0.1	0.1	%			08/13/18 15:19	1

Client Sample ID: WL-03

Date Collected: 08/09/18 15:40
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-3

Matrix: Solid
Percent Solids: 93.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.7	ug/Kg	☼	08/15/18 13:28	08/17/18 19:06	1
PCB-1221	ND		17	11	ug/Kg	☼	08/15/18 13:28	08/17/18 19:06	1
PCB-1232	ND		17	10	ug/Kg	☼	08/15/18 13:28	08/17/18 19:06	1
PCB-1242	ND		17	10	ug/Kg	☼	08/15/18 13:28	08/17/18 19:06	1
PCB-1248	**660**		17	14	ug/Kg	☼	08/15/18 13:28	08/17/18 19:06	1
PCB-1254	**200**		17	12	ug/Kg	☼	08/15/18 13:28	08/17/18 19:06	1
PCB-1260	**56**		17	5.0	ug/Kg	☼	08/15/18 13:28	08/17/18 19:06	1
PCB-1262	ND		17	12	ug/Kg	☼	08/15/18 13:28	08/17/18 19:06	1
PCB-1268	ND		17	8.5	ug/Kg	☼	08/15/18 13:28	08/17/18 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*102*		*33 - 137*	*08/15/18 13:28*	*08/17/18 19:06*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*33 - 137*	*08/15/18 13:28*	*08/17/18 19:06*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*08/15/18 13:28*	*08/17/18 19:06*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*08/15/18 13:28*	*08/17/18 19:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			08/13/18 15:19	1
Percent Solids	**93.5**		0.1	0.1	%			08/13/18 15:19	1

Client Sample ID: WL-04

Date Collected: 08/09/18 15:45
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-4

Matrix: Solid
Percent Solids: 81.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.6	ug/Kg	☼	08/15/18 13:28	08/17/18 20:11	1
PCB-1221	ND		20	13	ug/Kg	☼	08/15/18 13:28	08/17/18 20:11	1
PCB-1232	ND		20	12	ug/Kg	☼	08/15/18 13:28	08/17/18 20:11	1
PCB-1242	ND		20	12	ug/Kg	☼	08/15/18 13:28	08/17/18 20:11	1
PCB-1248	**150**		20	16	ug/Kg	☼	08/15/18 13:28	08/17/18 20:11	1
PCB-1254	**42**		20	14	ug/Kg	☼	08/15/18 13:28	08/17/18 20:11	1
PCB-1260	**12**	**J**	20	5.7	ug/Kg	☼	08/15/18 13:28	08/17/18 20:11	1
PCB-1262	ND		20	14	ug/Kg	☼	08/15/18 13:28	08/17/18 20:11	1
PCB-1268	ND		20	9.8	ug/Kg	☼	08/15/18 13:28	08/17/18 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*	*08/15/18 13:28*	*08/17/18 20:11*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*08/15/18 13:28*	*08/17/18 20:11*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*	*08/15/18 13:28*	*08/17/18 20:11*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*	*08/15/18 13:28*	*08/17/18 20:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.1**		0.1	0.1	%			08/14/18 09:02	1
Percent Solids	**81.9**		0.1	0.1	%			08/14/18 09:02	1

Client Sample ID: P-2

Date Collected: 08/09/18 15:50
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-5
Matrix: Solid
Percent Solids: 80.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	6.7	ug/Kg	☼	08/15/18 13:28	08/17/18 20:33	1
PCB-1221	ND		21	13	ug/Kg	☼	08/15/18 13:28	08/17/18 20:33	1
PCB-1232	ND		21	12	ug/Kg	☼	08/15/18 13:28	08/17/18 20:33	1
PCB-1242	ND		21	12	ug/Kg	☼	08/15/18 13:28	08/17/18 20:33	1
PCB-1248	**150**		21	16	ug/Kg	☼	08/15/18 13:28	08/17/18 20:33	1
PCB-1254	**40**		21	14	ug/Kg	☼	08/15/18 13:28	08/17/18 20:33	1
PCB-1260	**8.7**	**J**	21	5.9	ug/Kg	☼	08/15/18 13:28	08/17/18 20:33	1
PCB-1262	ND		21	14	ug/Kg	☼	08/15/18 13:28	08/17/18 20:33	1
PCB-1268	ND		21	10	ug/Kg	☼	08/15/18 13:28	08/17/18 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*	*08/15/18 13:28*	*08/17/18 20:33*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/15/18 13:28*	*08/17/18 20:33*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*08/15/18 13:28*	*08/17/18 20:33*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*08/15/18 13:28*	*08/17/18 20:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.1**		0.1	0.1	%			08/14/18 09:02	1
Percent Solids	**80.9**		0.1	0.1	%			08/14/18 09:02	1

Client Sample ID: P-3

Date Collected: 08/09/18 15:55
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-6
Matrix: Solid
Percent Solids: 83.6

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	6.4	ug/Kg	☼	08/15/18 13:28	08/17/18 20:55	1
PCB-1221	ND		20	13	ug/Kg	☼	08/15/18 13:28	08/17/18 20:55	1
PCB-1232	ND		20	12	ug/Kg	☼	08/15/18 13:28	08/17/18 20:55	1
PCB-1242	ND		20	12	ug/Kg	☼	08/15/18 13:28	08/17/18 20:55	1
PCB-1248	**320**		20	16	ug/Kg	☼	08/15/18 13:28	08/17/18 20:55	1
PCB-1254	**88**		20	13	ug/Kg	☼	08/15/18 13:28	08/17/18 20:55	1
PCB-1260	**32**		20	5.6	ug/Kg	☼	08/15/18 13:28	08/17/18 20:55	1
PCB-1262	ND		20	14	ug/Kg	☼	08/15/18 13:28	08/17/18 20:55	1
PCB-1268	ND		20	9.6	ug/Kg	☼	08/15/18 13:28	08/17/18 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*108*		*33 - 137*	*08/15/18 13:28*	*08/17/18 20:55*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*33 - 137*	*08/15/18 13:28*	*08/17/18 20:55*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*08/15/18 13:28*	*08/17/18 20:55*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*44 - 114*	*08/15/18 13:28*	*08/17/18 20:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.4**		0.1	0.1	%			08/14/18 09:02	1
Percent Solids	**83.6**		0.1	0.1	%			08/14/18 09:02	1

Client Sample ID: P-4

Date Collected: 08/09/18 16:00
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-7
Matrix: Solid
Percent Solids: 88.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/15/18 13:28	08/17/18 21:17	1
PCB-1221	ND		19	12	ug/Kg	☼	08/15/18 13:28	08/17/18 21:17	1
PCB-1232	ND		19	11	ug/Kg	☼	08/15/18 13:28	08/17/18 21:17	1
PCB-1242	ND		19	11	ug/Kg	☼	08/15/18 13:28	08/17/18 21:17	1
PCB-1248	**88**		19	15	ug/Kg	☼	08/15/18 13:28	08/17/18 21:17	1
PCB-1254	**37**		19	13	ug/Kg	☼	08/15/18 13:28	08/17/18 21:17	1
PCB-1260	**9.4**	**J**	19	5.3	ug/Kg	☼	08/15/18 13:28	08/17/18 21:17	1
PCB-1262	ND		19	13	ug/Kg	☼	08/15/18 13:28	08/17/18 21:17	1
PCB-1268	ND		19	9.0	ug/Kg	☼	08/15/18 13:28	08/17/18 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*08/15/18 13:28*	*08/17/18 21:17*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*33 - 137*	*08/15/18 13:28*	*08/17/18 21:17*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/15/18 13:28*	*08/17/18 21:17*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*08/15/18 13:28*	*08/17/18 21:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.1	%			08/14/18 09:02	1
Percent Solids	**88.8**		0.1	0.1	%			08/14/18 09:02	1

Client Sample ID: CS-01

Date Collected: 08/09/18 16:05
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-8
Matrix: Solid
Percent Solids: 88.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	08/15/18 13:28	08/17/18 21:38	1
PCB-1221	ND		19	12	ug/Kg	☼	08/15/18 13:28	08/17/18 21:38	1
PCB-1232	ND		19	11	ug/Kg	☼	08/15/18 13:28	08/17/18 21:38	1
PCB-1242	ND		19	11	ug/Kg	☼	08/15/18 13:28	08/17/18 21:38	1
PCB-1248	**4000**		19	15	ug/Kg	☼	08/15/18 13:28	08/17/18 21:38	1
PCB-1254	**980**		19	13	ug/Kg	☼	08/15/18 13:28	08/17/18 21:38	1
PCB-1260	**340**		19	5.4	ug/Kg	☼	08/15/18 13:28	08/17/18 21:38	1
PCB-1262	ND		19	13	ug/Kg	☼	08/15/18 13:28	08/17/18 21:38	1
PCB-1268	ND		19	9.1	ug/Kg	☼	08/15/18 13:28	08/17/18 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*33 - 137*	*08/15/18 13:28*	*08/17/18 21:38*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*08/15/18 13:28*	*08/17/18 21:38*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*44 - 114*	*08/15/18 13:28*	*08/17/18 21:38*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*44 - 114*	*08/15/18 13:28*	*08/17/18 21:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			08/14/18 09:02	1
Percent Solids	**88.5**		0.1	0.1	%			08/14/18 09:02	1

Client Sample ID: CS-02
Date Collected: 08/09/18 16:10
Date Received: 08/10/18 09:00

Lab Sample ID: 180-80713-9
Matrix: Solid
Percent Solids: 86.0

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		94	31	ug/Kg	☼	08/15/18 13:28	08/20/18 14:45	5
PCB-1221	ND		94	61	ug/Kg	☼	08/15/18 13:28	08/20/18 14:45	5
PCB-1232	ND		94	56	ug/Kg	☼	08/15/18 13:28	08/20/18 14:45	5
PCB-1242	ND		94	56	ug/Kg	☼	08/15/18 13:28	08/20/18 14:45	5
PCB-1248	**10000**		94	75	ug/Kg	☼	08/15/18 13:28	08/20/18 14:45	5
PCB-1254	**2800**		94	65	ug/Kg	☼	08/15/18 13:28	08/20/18 14:45	5
PCB-1260	**910**		94	27	ug/Kg	☼	08/15/18 13:28	08/20/18 14:45	5
PCB-1262	ND		94	66	ug/Kg	☼	08/15/18 13:28	08/20/18 14:45	5
PCB-1268	ND		94	46	ug/Kg	☼	08/15/18 13:28	08/20/18 14:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*33 - 137*	*08/15/18 13:28*	*08/20/18 14:45*	*5*
DCB Decachlorobiphenyl (Surr)	*58*	*p*	*33 - 137*	*08/15/18 13:28*	*08/20/18 14:45*	*5*
Tetrachloro-m-xylene (Surr)	*88*		*44 - 114*	*08/15/18 13:28*	*08/20/18 14:45*	*5*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/15/18 13:28*	*08/20/18 14:45*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.0**		0.1	0.1	%			08/14/18 09:02	1
Percent Solids	**86.0**		0.1	0.1	%			08/14/18 09:02	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-253991/1-C
Matrix: Solid
Analysis Batch: 254176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1221	ND		17	11	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1232	ND		17	9.9	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1242	ND		17	10	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1248	ND		17	13	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1254	ND		17	11	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1260	ND		17	4.7	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1262	ND		17	12	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1268	ND		17	8.1	ug/Kg		08/15/18 13:28	08/17/18 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*106*		*33 - 137*	*08/15/18 13:28*	*08/17/18 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*	*08/15/18 13:28*	*08/17/18 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/15/18 13:28*	*08/17/18 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*	*08/15/18 13:28*	*08/17/18 17:38*	*1*

Lab Sample ID: LCS 180-253991/2-C
Matrix: Solid
Analysis Batch: 254176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253991

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1180		ug/Kg		89	46 - 122		
PCB-1260			1330	1300		ug/Kg		97	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*105*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*105*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*96*		*44 - 114*

Lab Sample ID: 180-80713-3 MS
Matrix: Solid
Analysis Batch: 254176

Client Sample ID: WL-03
Prep Type: Total/NA
Prep Batch: 253991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1410	1380		ug/Kg	☼	98	46 - 122		
PCB-1260	56		1410	1340		ug/Kg	☼	91	51 - 119		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*90*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*87*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*84*		*44 - 114*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-80713-3 MSD
Matrix: Solid
Analysis Batch: 254176

Client Sample ID: WL-03
Prep Type: Total/NA
Prep Batch: 253991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1390	1340		ug/Kg	☼	97	46 - 122	3	23
PCB-1260	56		1390	1340		ug/Kg	☼	93	51 - 119	0	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*

Method: 2540G - SM 2540G

Lab Sample ID: 180-80713-3 DU
Matrix: Solid
Analysis Batch: 253684

Client Sample ID: WL-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	6.5			6.1		%				5	20
Percent Solids	93.5			93.9		%				0.4	20

Lab Sample ID: 180-80713-4 DU
Matrix: Solid
Analysis Batch: 253723

Client Sample ID: WL-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	18.1			18.0		%				0.5	20
Percent Solids	81.9			82.0		%				0.1	20

GC Semi VOA

Prep Batch: 253991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80713-1	WL-01	Total/NA	Solid	3541	
180-80713-2	WL-02	Total/NA	Solid	3541	
180-80713-3	WL-03	Total/NA	Solid	3541	
180-80713-4	WL-04	Total/NA	Solid	3541	
180-80713-5	P-2	Total/NA	Solid	3541	
180-80713-6	P-3	Total/NA	Solid	3541	
180-80713-7	P-4	Total/NA	Solid	3541	
180-80713-8	CS-01	Total/NA	Solid	3541	
180-80713-9	CS-02	Total/NA	Solid	3541	
MB 180-253991/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-253991/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-80713-3 MS	WL-03	Total/NA	Solid	3541	
180-80713-3 MSD	WL-03	Total/NA	Solid	3541	

Analysis Batch: 254176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80713-1	WL-01	Total/NA	Solid	EPA 8082A	254228
180-80713-2	WL-02	Total/NA	Solid	EPA 8082A	254228
180-80713-3	WL-03	Total/NA	Solid	EPA 8082A	254228
180-80713-4	WL-04	Total/NA	Solid	EPA 8082A	254228
180-80713-5	P-2	Total/NA	Solid	EPA 8082A	254228
180-80713-6	P-3	Total/NA	Solid	EPA 8082A	254228
180-80713-7	P-4	Total/NA	Solid	EPA 8082A	254228
180-80713-8	CS-01	Total/NA	Solid	EPA 8082A	254228
MB 180-253991/1-C	Method Blank	Total/NA	Solid	EPA 8082A	254228
LCS 180-253991/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	254228
180-80713-3 MS	WL-03	Total/NA	Solid	EPA 8082A	254228
180-80713-3 MSD	WL-03	Total/NA	Solid	EPA 8082A	254228

Cleanup Batch: 254227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80713-1	WL-01	Total/NA	Solid	3665A	253991
180-80713-2	WL-02	Total/NA	Solid	3665A	253991
180-80713-3	WL-03	Total/NA	Solid	3665A	253991
180-80713-4	WL-04	Total/NA	Solid	3665A	253991
180-80713-5	P-2	Total/NA	Solid	3665A	253991
180-80713-6	P-3	Total/NA	Solid	3665A	253991
180-80713-7	P-4	Total/NA	Solid	3665A	253991
180-80713-8	CS-01	Total/NA	Solid	3665A	253991
180-80713-9	CS-02	Total/NA	Solid	3665A	253991
MB 180-253991/1-C	Method Blank	Total/NA	Solid	3665A	253991
LCS 180-253991/2-C	Lab Control Sample	Total/NA	Solid	3665A	253991
180-80713-3 MS	WL-03	Total/NA	Solid	3665A	253991
180-80713-3 MSD	WL-03	Total/NA	Solid	3665A	253991

Cleanup Batch: 254228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80713-1	WL-01	Total/NA	Solid	3660B	254227
180-80713-2	WL-02	Total/NA	Solid	3660B	254227
180-80713-3	WL-03	Total/NA	Solid	3660B	254227
180-80713-4	WL-04	Total/NA	Solid	3660B	254227

GC Semi VOA (Continued)

Cleanup Batch: 254228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80713-5	P-2	Total/NA	Solid	3660B	254227
180-80713-6	P-3	Total/NA	Solid	3660B	254227
180-80713-7	P-4	Total/NA	Solid	3660B	254227
180-80713-8	CS-01	Total/NA	Solid	3660B	254227
180-80713-9	CS-02	Total/NA	Solid	3660B	254227
MB 180-253991/1-C	Method Blank	Total/NA	Solid	3660B	254227
LCS 180-253991/2-C	Lab Control Sample	Total/NA	Solid	3660B	254227
180-80713-3 MS	WL-03	Total/NA	Solid	3660B	254227
180-80713-3 MSD	WL-03	Total/NA	Solid	3660B	254227

Analysis Batch: 254345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80713-9	CS-02	Total/NA	Solid	EPA 8082A	254228

General Chemistry

Analysis Batch: 253684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80713-1	WL-01	Total/NA	Solid	2540G	
180-80713-2	WL-02	Total/NA	Solid	2540G	
180-80713-3	WL-03	Total/NA	Solid	2540G	
180-80713-3 DU	WL-03	Total/NA	Solid	2540G	

Analysis Batch: 253723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80713-4	WL-04	Total/NA	Solid	2540G	
180-80713-5	P-2	Total/NA	Solid	2540G	
180-80713-6	P-3	Total/NA	Solid	2540G	
180-80713-7	P-4	Total/NA	Solid	2540G	
180-80713-8	CS-01	Total/NA	Solid	2540G	
180-80713-9	CS-02	Total/NA	Solid	2540G	
180-80713-4 DU	WL-04	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matt Shallinger + Marisa Zellmer	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No:
Client Contact: Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 2
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days): ~~Stand~~ 2 Day TAT for PCB's			
State, Zip: MD, 21044				
Phone: (202) 550-7724	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	PCB's TAL Metals	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N	N	A			
WL-01	8/9/18	1530	G	Solid	N						X	2	
WL-02		1535	G	Solid	N						X	2	
WL-03		1540	G	Solid	N	X					X	4	MS/MSD-1
WL-04		1545	G	Solid	N						X	2	
P-2		1550	G	Solid	N						X	2	
P-3		1555	G	Solid	N						X	2	
P-4		1600	G	Solid	N						X	2	
CS-01		1605	G	Solid	N						X	2	
CS-02		1610	G	Solid	N						X	2	
WIS2R-08092018 A/B		1510/1515	G	Solid	N		X					8	window VOCs
WIS2R-08092018C		1520	C	Solid	N			X	X			3	window composite

this is two individual samples WIS2R-08092018A and WIS2R-08092018B [illegible] Matt Shallinger 8/10/18

180-80713 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
M. Schallinger	8/9/18 1900	Geosyntec	FedEx	8/9/18 1900	
			[signature]	8/10/18 0900	[signature]

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MS+MZ	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No:
Client Contact: Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 2
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days):			
State, Zip: MD, 21044				
Phone: (202) 550-7724	PO #: MN0832D			
Email: akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	TAL Metals 6010C, 7471B, 9045	8260C	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N					
DUP-1	08/09/18	—	G	Solid	N				X	A	
DUP-2	08/09/18	—	C	Solid	N		X	X	← composite for PCB	3	
Trip blank	—	—	—	Solid	N				X	2	
				Solid	N				SVOC metals CN		
				Solid	N				(DER-10 + DList)		
				Solid	N				as discussed with Aron Krasnopoler 8/10/18		
				Solid	N						
				Solid	N						
				Solid	N						
				Solid	N						
				Solid	N						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/9/18 1400	Geosyntec	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 8/10/18 0900	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

8/26/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80713-1

Login Number: 80713
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-80802-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/26/2018 5:04:01 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80802-1

Job ID: 180-80802-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-80802-1

Receipt
The samples were received on 8/11/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-253609 was above criteria for the following analyte: acetone. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-253609 was below criteria for the following analytes: dichlorodifluoromethane and methyl acetate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-253882 was below criteria for the following analytes: 1,2,3-trichlorobenzene and 1,2-dibromo-3-chloropropane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-253882 was above criteria for the following analytes: 2-butanone, vromomethane, and chloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte254117 is considered estimated.

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

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: SD-02 (180-80802-2) and its matrix spikes. The surrogates and matrix spikes should be considered diluted out. Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 180-254117 was above criteria for the following analytes: 2-nitroaniline and 4-nitrophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 180-254217 was above criteria for the following analyte: 2-nitroaniline. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

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

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254176 (CCV 180-254176/1) was below criteria for 2 peaks for aroclor 1254 on column RTX-CLP2. This CCV was associated with the method blank and laboratory control sample for prep batch 180-253991.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254176 (CCV 180-254176/4) was below criteria for 1 peak for aroclor 1248 on column RTX-CLP1. This CCV was associated with the method blank and laboratory control sample for prep batch 180-253991.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254176 (CCVIS 180-254176/28) was above criteria for 1 peak for aroclor 1016 on column RTX-CLP1. This CCV was associated with the method blank and laboratory control sample for prep batch 180-253991.

Job ID: 180-80802-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254345 (CCV 180-254345/1) was below criteria for 2 peaks for aroclor 1254 on both columns. Aroclor 1254 was not detected in the associated sample.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254345 (CCVIS 180-254345/5) was above criteria for aroclor 1016 on column RTX-CLP1. As the CCV was high and aroclor 1016 was not detected in the associated sample, the results were reported.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-254345 (CCVIS 180-254345/5) was above criteria for 1 peak for aroclor 1260 and surrogate decachlorobiphenyl on column RTX-CLP2. Aroclor 1260 was not detected in the associated saqmple. All surrogate recoveries were within the control limits in the associated sample.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80802-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-80802-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
EPA 8260C	5035	Solid	Cyclohexane

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
EPA 8260C		Water	1,2,3-Trichlorobenzene
EPA 8270D	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80802-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-80802-1	SD-01	Solid	08/10/18 12:00	08/11/18 09:00
180-80802-2	SD-02	Solid	08/10/18 12:05	08/11/18 09:00
180-80802-3	SSHS-B1501	Solid	08/10/18 16:25	08/11/18 09:00
180-80802-4	TRIP BLANK	Water	08/10/18 17:00	08/11/18 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80802-1

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
EPA 8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
5030C	Purge and Trap	SW846	TAL PIT
5035	Closed System Purge and Trap	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80802-1

Client Sample ID: SD-01
Date Collected: 08/10/18 12:00
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253723	08/14/18 09:02	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SD-01
Date Collected: 08/10/18 12:00
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-1
Matrix: Solid
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.1773 g	5 mL	253614	08/13/18 06:00	KLG	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	253609	08/13/18 14:17	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: SD-02
Date Collected: 08/10/18 12:05
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253723	08/14/18 09:02	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SD-02
Date Collected: 08/10/18 12:05
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-2
Matrix: Solid
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	5.0 mL	254009	08/15/18 14:53	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D		50	1 mL	1 mL	254217	08/17/18 21:26	VVP	TAL PIT
	Instrument ID: CH731									

Client Sample ID: SSHS-B1501
Date Collected: 08/10/18 16:25
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			253723	08/14/18 09:02	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B1501
Date Collected: 08/10/18 16:25
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-3
Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	253991	08/15/18 13:28	SAC	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80802-1

Client Sample ID: SSHS-B1501

Date Collected: 08/10/18 16:25
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-3

Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3665A			2 mL	2 mL	254227	08/17/18 09:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	254228	08/17/18 09:50	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			254345	08/20/18 14:23	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: TRIP BLANK

Date Collected: 08/10/18 17:00
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	253882	08/15/18 11:36	PJJ	TAL PIT
	Instrument ID: CHHP11									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

KLG = Kathy Gordon

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

JMO = John Oravec

KLG = Kathy Gordon

PJJ = Patrick Journet

VVP = Vincent Piccolino

Client Sample ID: SD-01
Date Collected: 08/10/18 12:00
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-1
Matrix: Solid
Percent Solids: 79.8

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		29	4.6	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Benzene	ND		7.3	2.9	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Bromoform	ND		7.3	3.8	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Bromomethane	ND		7.3	6.6	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
2-Butanone (MEK)	**6.5**	**J**	7.3	4.2	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Carbon disulfide	**4.9**	**J**	7.3	4.4	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Carbon tetrachloride	ND		7.3	4.9	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Chlorobenzene	ND		7.3	2.3	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Chlorobromomethane	ND		7.3	2.8	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Chlorodibromomethane	ND		7.3	3.5	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Chloroethane	ND		7.3	3.8	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Chloroform	ND		7.3	3.1	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Chloromethane	ND		7.3	5.6	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
cis-1,2-Dichloroethene	ND		7.3	2.3	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
cis-1,3-Dichloropropene	ND		7.3	2.3	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Cyclohexane	ND		7.3	1.8	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,2-Dibromo-3-Chloropropane	ND		7.3	4.5	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,2-Dibromoethane	ND		7.3	4.0	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,2-Dichlorobenzene	ND		7.3	5.9	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,3-Dichlorobenzene	ND		7.3	2.3	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,4-Dichlorobenzene	ND		7.3	1.5	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Dichlorobromomethane	ND		7.3	3.4	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Dichlorodifluoromethane	ND		7.3	4.3	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,1-Dichloroethane	ND		7.3	2.6	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,2-Dichloroethane	ND		7.3	2.1	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,1-Dichloroethene	ND		7.3	4.2	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,2-Dichloroethene, Total	ND		15	5.8	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,2-Dichloropropane	ND		7.3	3.6	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,4-Dioxane	ND		1500	54	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Ethylbenzene	ND		7.3	3.1	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
2-Hexanone	ND		7.3	6.1	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Isopropylbenzene	ND		7.3	3.4	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Methyl acetate	ND		37	8.6	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Methylcyclohexane	**8.7**		7.3	3.1	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Methylene Chloride	ND		7.3	3.5	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		7.3	2.7	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Methyl tert-butyl ether	ND		7.3	5.4	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
m-Xylene & p-Xylene	ND		7.3	2.7	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
o-Xylene	ND		7.3	3.6	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Styrene	ND		7.3	1.9	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,1,2,2-Tetrachloroethane	ND		7.3	4.4	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Tetrachloroethene	ND		7.3	2.9	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Toluene	ND		7.3	2.5	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
trans-1,2-Dichloroethene	ND		7.3	3.7	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
trans-1,3-Dichloropropene	ND		7.3	2.5	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,2,3-Trichlorobenzene	ND		7.3	3.0	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,2,4-Trichlorobenzene	ND		7.3	2.4	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,1,1-Trichloroethane	ND		7.3	3.7	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,1,2-Trichloroethane	ND		7.3	3.5	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1

Client Sample ID: SD-01

Lab Sample ID: 180-80802-1
Date Collected: 08/10/18 12:00
Matrix: Solid
Date Received: 08/11/18 09:00
Percent Solids: 79.8

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		7.3	2.2	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Trichlorofluoromethane	ND		7.3	2.1	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	2.8	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Vinyl chloride	ND		7.3	5.4	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1
Xylenes, Total	ND		15	6.3	ug/Kg	☼	08/13/18 06:00	08/13/18 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 110*	*08/13/18 06:00*	*08/13/18 14:17*	*1*
Dibromofluoromethane (Surr)	*96*		*74 - 114*	*08/13/18 06:00*	*08/13/18 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*69 - 110*	*08/13/18 06:00*	*08/13/18 14:17*	*1*
Toluene-d8 (Surr)	*100*		*83 - 124*	*08/13/18 06:00*	*08/13/18 14:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.2**		0.1	0.1	%			08/14/18 09:02	1
Percent Solids	**79.8**		0.1	0.1	%			08/14/18 09:02	1

Client Sample ID: SD-02

Lab Sample ID: 180-80802-2
Date Collected: 08/10/18 12:05
Matrix: Solid
Date Received: 08/11/18 09:00
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4100	1200	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Acenaphthylene	ND		4100	900	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Acetophenone	ND		41000	1100	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Anthracene	ND	F2	4100	1100	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Atrazine	ND		41000	9000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Benzaldehyde	ND	F1	41000	2600	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Benzo[a]anthracene	ND		4100	780	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Benzo[a]pyrene	ND		4100	900	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Benzo[b]fluoranthene	ND		4100	1000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Benzo[g,h,i]perylene	ND		4100	890	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Benzo[k]fluoranthene	ND		4100	1200	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
1,1'-Biphenyl	ND		20000	870	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Bis(2-chloroethoxy)methane	ND	F2	20000	980	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Bis(2-chloroethyl)ether	ND		4100	750	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Bis(2-ethylhexyl) phthalate	ND		200000	22000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
4-Bromophenyl phenyl ether	ND	F2	20000	1400	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Butyl benzyl phthalate	ND		20000	14000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Caprolactam	ND		110000	13000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Carbazole	ND	F2	4100	970	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
4-Chloroaniline	ND	F1	20000	690	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
4-Chloro-3-methylphenol	ND	F2 F1	20000	970	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2-Chloronaphthalene	ND		4100	950	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2-Chlorophenol	ND		20000	960	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
4-Chlorophenyl phenyl ether	ND		20000	1200	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Chrysene	ND	F1	4100	810	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Dibenz(a,h)anthracene	ND		4100	920	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Dibenzofuran	ND		20000	900	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80802-1

Client Sample ID: SD-02
Date Collected: 08/10/18 12:05
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-2
Matrix: Solid
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		20000	19000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2,4-Dichlorophenol	ND		4100	1600	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Diethyl phthalate	ND		20000	5000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2,4-Dimethylphenol	ND	F1	20000	1300	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Dimethyl phthalate	ND	F2	20000	750	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Di-n-butyl phthalate	ND		20000	9000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
4,6-Dinitro-2-methylphenol	ND		110000	36000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2,4-Dinitrophenol	ND		200000	55000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2,4-Dinitrotoluene	ND		20000	1000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2,6-Dinitrotoluene	ND	F1 F2	20000	1300	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Di-n-octyl phthalate	ND		20000	12000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
1,4-Dioxane	ND	F1	41000	6400	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Fluoranthene	ND		4100	1100	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Fluorene	ND		4100	810	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Hexachlorobenzene	ND		4100	1500	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Hexachlorobutadiene	ND		4100	1200	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Hexachlorocyclopentadiene	ND	F1	20000	1100	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Hexachloroethane	ND	F2	20000	1100	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Indeno[1,2,3-cd]pyrene	ND		4100	840	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Isophorone	ND		20000	1100	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2-Methylnaphthalene	ND		4100	990	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2-Methylphenol	ND	F1	20000	5900	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Methylphenol, 3 & 4	ND	F1	20000	6100	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Naphthalene	ND		4100	800	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2-Nitroaniline	ND		110000	9400	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
3-Nitroaniline	ND	F1	110000	5200	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
4-Nitroaniline	ND	F2	110000	1000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Nitrobenzene	ND	F1	41000	7500	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2-Nitrophenol	ND		20000	1200	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
4-Nitrophenol	ND	F1	110000	14000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
N-Nitrosodi-n-propylamine	ND		4100	1400	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
N-Nitrosodiphenylamine	ND	F1	20000	6900	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2,2'-oxybis[1-chloropropane]	ND	F2	4100	1500	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Pentachlorophenol	ND		110000	33000	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Phenanthrene	ND	F1	4100	1100	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Phenol	ND	F1	20000	6200	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
Pyrene	**2600**	**J**	4100	980	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
1,2,4,5-Tetrachlorobenzene	ND		20000	890	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2,3,4,6-Tetrachlorophenol	ND		20000	8600	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2,4,5-Trichlorophenol	ND		20000	1500	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50
2,4,6-Trichlorophenol	ND	F2	20000	1100	ug/Kg	☼	08/15/18 14:53	08/17/18 21:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X D*	*47 - 105*	*08/15/18 14:53*	*08/17/18 21:26*	*50*
2-Fluorophenol (Surr)	*0*	*X D*	*35 - 105*	*08/15/18 14:53*	*08/17/18 21:26*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*47 - 105*	*08/15/18 14:53*	*08/17/18 21:26*	*50*
Phenol-d5 (Surr)	*0*	*X D*	*38 - 105*	*08/15/18 14:53*	*08/17/18 21:26*	*50*
Terphenyl-d14 (Surr)	*0*	*X D*	*42 - 105*	*08/15/18 14:53*	*08/17/18 21:26*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*20 - 111*	*08/15/18 14:53*	*08/17/18 21:26*	*50*

Client Sample ID: SD-02

Lab Sample ID: 180-80802-2
Date Collected: 08/10/18 12:05
Matrix: Solid
Date Received: 08/11/18 09:00
Percent Solids: 80.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.2		0.1	0.1	%			08/14/18 09:02	1
Percent Solids	80.8		0.1	0.1	%			08/14/18 09:02	1

Client Sample ID: SSHS-B1501

Lab Sample ID: 180-80802-3
Date Collected: 08/10/18 16:25
Matrix: Solid
Date Received: 08/11/18 09:00
Percent Solids: 85.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	08/15/18 13:28	08/20/18 14:23	1
PCB-1221	ND		19	12	ug/Kg	☼	08/15/18 13:28	08/20/18 14:23	1
PCB-1232	ND		19	11	ug/Kg	☼	08/15/18 13:28	08/20/18 14:23	1
PCB-1242	ND		19	11	ug/Kg	☼	08/15/18 13:28	08/20/18 14:23	1
PCB-1248	29		19	15	ug/Kg	☼	08/15/18 13:28	08/20/18 14:23	1
PCB-1254	ND		19	13	ug/Kg	☼	08/15/18 13:28	08/20/18 14:23	1
PCB-1260	ND		19	5.4	ug/Kg	☼	08/15/18 13:28	08/20/18 14:23	1
PCB-1262	ND		19	13	ug/Kg	☼	08/15/18 13:28	08/20/18 14:23	1
PCB-1268	ND		19	9.3	ug/Kg	☼	08/15/18 13:28	08/20/18 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*	*08/15/18 13:28*	*08/20/18 14:23*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*33 - 137*	*08/15/18 13:28*	*08/20/18 14:23*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*08/15/18 13:28*	*08/20/18 14:23*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*08/15/18 13:28*	*08/20/18 14:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.5		0.1	0.1	%			08/14/18 09:02	1
Percent Solids	85.5		0.1	0.1	%			08/14/18 09:02	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-80802-4
Date Collected: 08/10/18 17:00
Matrix: Water
Date Received: 08/11/18 09:00

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	3.2	ug/L			08/15/18 11:36	1
Benzene	ND		5.0	2.0	ug/L			08/15/18 11:36	1
Bromoform	ND		5.0	2.6	ug/L			08/15/18 11:36	1
Bromomethane	ND		5.0	4.5	ug/L			08/15/18 11:36	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			08/15/18 11:36	1
Carbon disulfide	ND		5.0	3.0	ug/L			08/15/18 11:36	1
Carbon tetrachloride	ND		5.0	3.3	ug/L			08/15/18 11:36	1
Chlorobenzene	ND		5.0	1.6	ug/L			08/15/18 11:36	1
Chlorobromomethane	ND		5.0	1.9	ug/L			08/15/18 11:36	1
Chlorodibromomethane	ND		5.0	2.4	ug/L			08/15/18 11:36	1
Chloroethane	ND		5.0	2.6	ug/L			08/15/18 11:36	1
Chloroform	ND		5.0	2.1	ug/L			08/15/18 11:36	1
Chloromethane	ND		5.0	3.9	ug/L			08/15/18 11:36	1
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/L			08/15/18 11:36	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-80802-1

Client Sample ID: TRIP BLANK
Date Collected: 08/10/18 17:00
Date Received: 08/11/18 09:00

Lab Sample ID: 180-80802-4
Matrix: Water

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0	1.6	ug/L			08/15/18 11:36	1
Cyclohexane	ND		5.0	1.2	ug/L			08/15/18 11:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0	3.1	ug/L			08/15/18 11:36	1
1,2-Dibromoethane	ND		5.0	2.7	ug/L			08/15/18 11:36	1
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			08/15/18 11:36	1
1,3-Dichlorobenzene	ND		5.0	1.6	ug/L			08/15/18 11:36	1
1,4-Dichlorobenzene	ND		5.0	1.0	ug/L			08/15/18 11:36	1
Dichlorobromomethane	ND		5.0	2.4	ug/L			08/15/18 11:36	1
Dichlorodifluoromethane	ND		5.0	2.9	ug/L			08/15/18 11:36	1
1,1-Dichloroethane	ND		5.0	1.8	ug/L			08/15/18 11:36	1
1,2-Dichloroethane	ND		5.0	1.5	ug/L			08/15/18 11:36	1
1,1-Dichloroethene	ND		5.0	2.9	ug/L			08/15/18 11:36	1
1,2-Dichloroethene, Total	ND		10	4.0	ug/L			08/15/18 11:36	1
1,2-Dichloropropane	ND		5.0	2.5	ug/L			08/15/18 11:36	1
1,4-Dioxane	ND		1000	37	ug/L			08/15/18 11:36	1
Ethylbenzene	ND		5.0	2.2	ug/L			08/15/18 11:36	1
2-Hexanone	ND		5.0	4.2	ug/L			08/15/18 11:36	1
Isopropylbenzene	ND		5.0	2.3	ug/L			08/15/18 11:36	1
Methyl acetate	ND		25	5.9	ug/L			08/15/18 11:36	1
Methylcyclohexane	ND		5.0	2.1	ug/L			08/15/18 11:36	1
Methylene Chloride	ND		5.0	2.4	ug/L			08/15/18 11:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.9	ug/L			08/15/18 11:36	1
Methyl tert-butyl ether	ND		5.0	3.7	ug/L			08/15/18 11:36	1
m-Xylene & p-Xylene	ND		5.0	1.9	ug/L			08/15/18 11:36	1
o-Xylene	ND		5.0	2.4	ug/L			08/15/18 11:36	1
Styrene	ND		5.0	1.3	ug/L			08/15/18 11:36	1
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/L			08/15/18 11:36	1
Tetrachloroethene	ND		5.0	2.0	ug/L			08/15/18 11:36	1
Toluene	ND		5.0	1.7	ug/L			08/15/18 11:36	1
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/L			08/15/18 11:36	1
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			08/15/18 11:36	1
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/L			08/15/18 11:36	1
1,2,4-Trichlorobenzene	ND		5.0	1.6	ug/L			08/15/18 11:36	1
1,1,1-Trichloroethane	ND		5.0	2.5	ug/L			08/15/18 11:36	1
1,1,2-Trichloroethane	ND		5.0	2.4	ug/L			08/15/18 11:36	1
Trichloroethene	ND		5.0	1.5	ug/L			08/15/18 11:36	1
Trichlorofluoromethane	ND		5.0	1.5	ug/L			08/15/18 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.9	ug/L			08/15/18 11:36	1
Vinyl chloride	ND		5.0	3.7	ug/L			08/15/18 11:36	1
Xylenes, Total	ND		10	4.3	ug/L			08/15/18 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*61 - 123*		*08/15/18 11:36*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 128*		*08/15/18 11:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 143*		*08/15/18 11:36*	*1*
Toluene-d8 (Surr)	*89*		*75 - 124*		*08/15/18 11:36*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-253609/5
Matrix: Solid
Analysis Batch: 253609

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	3.2	ug/Kg			08/13/18 08:24	1
Benzene	ND		5.0	2.0	ug/Kg			08/13/18 08:24	1
Bromoform	ND		5.0	2.6	ug/Kg			08/13/18 08:24	1
Bromomethane	ND		5.0	4.5	ug/Kg			08/13/18 08:24	1
2-Butanone (MEK)	ND		5.0	2.9	ug/Kg			08/13/18 08:24	1
Carbon disulfide	ND		5.0	3.0	ug/Kg			08/13/18 08:24	1
Carbon tetrachloride	ND		5.0	3.3	ug/Kg			08/13/18 08:24	1
Chlorobenzene	ND		5.0	1.6	ug/Kg			08/13/18 08:24	1
Chlorobromomethane	ND		5.0	1.9	ug/Kg			08/13/18 08:24	1
Chlorodibromomethane	ND		5.0	2.4	ug/Kg			08/13/18 08:24	1
Chloroethane	ND		5.0	2.6	ug/Kg			08/13/18 08:24	1
Chloroform	ND		5.0	2.1	ug/Kg			08/13/18 08:24	1
Chloromethane	ND		5.0	3.9	ug/Kg			08/13/18 08:24	1
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/Kg			08/13/18 08:24	1
cis-1,3-Dichloropropene	ND		5.0	1.6	ug/Kg			08/13/18 08:24	1
Cyclohexane	ND		5.0	1.2	ug/Kg			08/13/18 08:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	3.1	ug/Kg			08/13/18 08:24	1
1,2-Dibromoethane	ND		5.0	2.7	ug/Kg			08/13/18 08:24	1
1,2-Dichlorobenzene	ND		5.0	4.0	ug/Kg			08/13/18 08:24	1
1,3-Dichlorobenzene	ND		5.0	1.6	ug/Kg			08/13/18 08:24	1
1,4-Dichlorobenzene	ND		5.0	1.0	ug/Kg			08/13/18 08:24	1
Dichlorobromomethane	ND		5.0	2.4	ug/Kg			08/13/18 08:24	1
Dichlorodifluoromethane	ND		5.0	2.9	ug/Kg			08/13/18 08:24	1
1,1-Dichloroethane	ND		5.0	1.8	ug/Kg			08/13/18 08:24	1
1,2-Dichloroethane	ND		5.0	1.5	ug/Kg			08/13/18 08:24	1
1,1-Dichloroethene	ND		5.0	2.9	ug/Kg			08/13/18 08:24	1
1,2-Dichloroethene, Total	ND		10	4.0	ug/Kg			08/13/18 08:24	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			08/13/18 08:24	1
1,4-Dioxane	ND		1000	37	ug/Kg			08/13/18 08:24	1
Ethylbenzene	ND		5.0	2.2	ug/Kg			08/13/18 08:24	1
2-Hexanone	ND		5.0	4.2	ug/Kg			08/13/18 08:24	1
Isopropylbenzene	ND		5.0	2.3	ug/Kg			08/13/18 08:24	1
Methyl acetate	ND		25	5.9	ug/Kg			08/13/18 08:24	1
Methylcyclohexane	ND		5.0	2.1	ug/Kg			08/13/18 08:24	1
Methylene Chloride	ND		5.0	2.4	ug/Kg			08/13/18 08:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.9	ug/Kg			08/13/18 08:24	1
Methyl tert-butyl ether	ND		5.0	3.7	ug/Kg			08/13/18 08:24	1
m-Xylene & p-Xylene	ND		5.0	1.9	ug/Kg			08/13/18 08:24	1
o-Xylene	ND		5.0	2.4	ug/Kg			08/13/18 08:24	1
Styrene	ND		5.0	1.3	ug/Kg			08/13/18 08:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/Kg			08/13/18 08:24	1
Tetrachloroethene	ND		5.0	2.0	ug/Kg			08/13/18 08:24	1
Toluene	ND		5.0	1.7	ug/Kg			08/13/18 08:24	1
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/Kg			08/13/18 08:24	1
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/Kg			08/13/18 08:24	1
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/Kg			08/13/18 08:24	1
1,2,4-Trichlorobenzene	ND		5.0	1.6	ug/Kg			08/13/18 08:24	1
1,1,1-Trichloroethane	ND		5.0	2.5	ug/Kg			08/13/18 08:24	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-253609/5
Matrix: Solid
Analysis Batch: 253609

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		5.0	2.4	ug/Kg			08/13/18 08:24	1
Trichloroethene	ND		5.0	1.5	ug/Kg			08/13/18 08:24	1
Trichlorofluoromethane	ND		5.0	1.5	ug/Kg			08/13/18 08:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.9	ug/Kg			08/13/18 08:24	1
Vinyl chloride	ND		5.0	3.7	ug/Kg			08/13/18 08:24	1
Xylenes, Total	ND		10	4.3	ug/Kg			08/13/18 08:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 110*		*08/13/18 08:24*	*1*
Dibromofluoromethane (Surr)	*93*		*74 - 114*		*08/13/18 08:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*69 - 110*		*08/13/18 08:24*	*1*
Toluene-d8 (Surr)	*94*		*83 - 124*		*08/13/18 08:24*	*1*

Lab Sample ID: LCS 180-253609/3
Matrix: Solid
Analysis Batch: 253609

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	56.2		ug/Kg		140	36 - 150
Benzene	40.0	39.5		ug/Kg		99	78 - 118
Bromoform	40.0	32.8		ug/Kg		82	56 - 150
Bromomethane	40.0	34.6		ug/Kg		87	34 - 150
2-Butanone (MEK)	40.0	43.4		ug/Kg		108	30 - 150
Carbon disulfide	40.0	38.9		ug/Kg		97	66 - 128
Carbon tetrachloride	40.0	40.2		ug/Kg		100	60 - 137
Chlorobenzene	40.0	40.4		ug/Kg		101	78 - 118
Chlorobromomethane	40.0	39.0		ug/Kg		98	72 - 121
Chlorodibromomethane	40.0	38.2		ug/Kg		96	58 - 140
Chloroethane	40.0	43.6		ug/Kg		109	37 - 150
Chloroform	40.0	39.8		ug/Kg		100	68 - 124
Chloromethane	40.0	33.4		ug/Kg		83	46 - 150
cis-1,2-Dichloroethene	40.0	39.7		ug/Kg		99	71 - 120
cis-1,3-Dichloropropene	40.0	38.7		ug/Kg		97	70 - 131
Cyclohexane	40.0	39.0		ug/Kg		97	70 - 133
1,2-Dibromo-3-Chloropropane	40.0	32.1		ug/Kg		80	54 - 129
1,2-Dibromoethane	40.0	38.4		ug/Kg		96	78 - 118
1,2-Dichlorobenzene	40.0	40.8		ug/Kg		102	78 - 118
1,3-Dichlorobenzene	40.0	40.4		ug/Kg		101	78 - 118
1,4-Dichlorobenzene	40.0	40.5		ug/Kg		101	78 - 118
Dichlorobromomethane	40.0	39.8		ug/Kg		100	66 - 136
Dichlorodifluoromethane	40.0	31.4		ug/Kg		79	16 - 150
1,1-Dichloroethane	40.0	39.3		ug/Kg		98	67 - 129
1,2-Dichloroethane	40.0	38.6		ug/Kg		97	67 - 123
1,1-Dichloroethene	40.0	38.3		ug/Kg		96	59 - 128
1,2-Dichloroethene, Total	80.0	78.6		ug/Kg		98	71 - 121
1,2-Dichloropropane	40.0	38.6		ug/Kg		97	80 - 121
1,4-Dioxane	800	649	J	ug/Kg		81	51 - 138
Ethylbenzene	40.0	40.4		ug/Kg		101	78 - 118

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-253609/3
Matrix: Solid
Analysis Batch: 253609

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	40.0	44.7		ug/Kg		112	36 - 150
Isopropylbenzene	40.0	42.0		ug/Kg		105	76 - 123
Methyl acetate	80.0	59.5		ug/Kg		74	64 - 140
Methylcyclohexane	40.0	40.3		ug/Kg		101	75 - 124
Methylene Chloride	40.0	38.2		ug/Kg		95	68 - 120
4-Methyl-2-pentanone (MIBK)	40.0	36.8		ug/Kg		92	62 - 145
Methyl tert-butyl ether	40.0	37.0		ug/Kg		92	73 - 121
m-Xylene & p-Xylene	40.0	40.8		ug/Kg		102	78 - 118
o-Xylene	40.0	41.2		ug/Kg		103	78 - 118
Styrene	40.0	41.2		ug/Kg		103	79 - 119
1,1,2,2-Tetrachloroethane	40.0	35.4		ug/Kg		89	71 - 125
Tetrachloroethene	40.0	42.8		ug/Kg		107	78 - 118
Toluene	40.0	40.1		ug/Kg		100	79 - 121
trans-1,2-Dichloroethene	40.0	38.9		ug/Kg		97	71 - 123
trans-1,3-Dichloropropene	40.0	41.0		ug/Kg		102	62 - 133
1,2,3-Trichlorobenzene	40.0	45.4		ug/Kg		114	69 - 131
1,2,4-Trichlorobenzene	40.0	45.4		ug/Kg		113	65 - 135
1,1,1-Trichloroethane	40.0	41.3		ug/Kg		103	69 - 135
1,1,2-Trichloroethane	40.0	37.0		ug/Kg		92	78 - 118
Trichloroethene	40.0	42.1		ug/Kg		105	76 - 120
Trichlorofluoromethane	40.0	39.3		ug/Kg		98	25 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	39.2		ug/Kg		98	61 - 137
Vinyl chloride	40.0	32.4		ug/Kg		81	53 - 148
Xylenes, Total	80.0	81.9		ug/Kg		102	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 110*
Dibromofluoromethane (Surr)	*96*		*74 - 114*
1,2-Dichloroethane-d4 (Surr)	*90*		*69 - 110*
Toluene-d8 (Surr)	*94*		*83 - 124*

Lab Sample ID: MB 180-253882/6
Matrix: Water
Analysis Batch: 253882

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	3.2	ug/L			08/15/18 10:27	1
Benzene	ND		5.0	2.0	ug/L			08/15/18 10:27	1
Bromoform	ND		5.0	2.6	ug/L			08/15/18 10:27	1
Bromomethane	ND		5.0	4.5	ug/L			08/15/18 10:27	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			08/15/18 10:27	1
Carbon disulfide	ND		5.0	3.0	ug/L			08/15/18 10:27	1
Carbon tetrachloride	ND		5.0	3.3	ug/L			08/15/18 10:27	1
Chlorobenzene	ND		5.0	1.6	ug/L			08/15/18 10:27	1
Chlorobromomethane	ND		5.0	1.9	ug/L			08/15/18 10:27	1
Chlorodibromomethane	ND		5.0	2.4	ug/L			08/15/18 10:27	1
Chloroethane	ND		5.0	2.6	ug/L			08/15/18 10:27	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-253882/6
Matrix: Water
Analysis Batch: 253882

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		5.0	2.1	ug/L			08/15/18 10:27	1
Chloromethane	ND		5.0	3.9	ug/L			08/15/18 10:27	1
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/L			08/15/18 10:27	1
cis-1,3-Dichloropropene	ND		5.0	1.6	ug/L			08/15/18 10:27	1
Cyclohexane	ND		5.0	1.2	ug/L			08/15/18 10:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	3.1	ug/L			08/15/18 10:27	1
1,2-Dibromoethane	ND		5.0	2.7	ug/L			08/15/18 10:27	1
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			08/15/18 10:27	1
1,3-Dichlorobenzene	ND		5.0	1.6	ug/L			08/15/18 10:27	1
1,4-Dichlorobenzene	ND		5.0	1.0	ug/L			08/15/18 10:27	1
Dichlorobromomethane	ND		5.0	2.4	ug/L			08/15/18 10:27	1
Dichlorodifluoromethane	ND		5.0	2.9	ug/L			08/15/18 10:27	1
1,1-Dichloroethane	ND		5.0	1.8	ug/L			08/15/18 10:27	1
1,2-Dichloroethane	ND		5.0	1.5	ug/L			08/15/18 10:27	1
1,1-Dichloroethene	ND		5.0	2.9	ug/L			08/15/18 10:27	1
1,2-Dichloroethene, Total	ND		10	4.0	ug/L			08/15/18 10:27	1
1,2-Dichloropropane	ND		5.0	2.5	ug/L			08/15/18 10:27	1
1,4-Dioxane	ND		1000	37	ug/L			08/15/18 10:27	1
Ethylbenzene	ND		5.0	2.2	ug/L			08/15/18 10:27	1
2-Hexanone	ND		5.0	4.2	ug/L			08/15/18 10:27	1
Isopropylbenzene	ND		5.0	2.3	ug/L			08/15/18 10:27	1
Methyl acetate	ND		25	5.9	ug/L			08/15/18 10:27	1
Methylcyclohexane	ND		5.0	2.1	ug/L			08/15/18 10:27	1
Methylene Chloride	ND		5.0	2.4	ug/L			08/15/18 10:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.9	ug/L			08/15/18 10:27	1
Methyl tert-butyl ether	ND		5.0	3.7	ug/L			08/15/18 10:27	1
m-Xylene & p-Xylene	ND		5.0	1.9	ug/L			08/15/18 10:27	1
o-Xylene	ND		5.0	2.4	ug/L			08/15/18 10:27	1
Styrene	ND		5.0	1.3	ug/L			08/15/18 10:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/L			08/15/18 10:27	1
Tetrachloroethene	ND		5.0	2.0	ug/L			08/15/18 10:27	1
Toluene	ND		5.0	1.7	ug/L			08/15/18 10:27	1
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/L			08/15/18 10:27	1
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			08/15/18 10:27	1
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/L			08/15/18 10:27	1
1,2,4-Trichlorobenzene	ND		5.0	1.6	ug/L			08/15/18 10:27	1
1,1,1-Trichloroethane	ND		5.0	2.5	ug/L			08/15/18 10:27	1
1,1,2-Trichloroethane	ND		5.0	2.4	ug/L			08/15/18 10:27	1
Trichloroethene	ND		5.0	1.5	ug/L			08/15/18 10:27	1
Trichlorofluoromethane	ND		5.0	1.5	ug/L			08/15/18 10:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.9	ug/L			08/15/18 10:27	1
Vinyl chloride	ND		5.0	3.7	ug/L			08/15/18 10:27	1
Xylenes, Total	ND		10	4.3	ug/L			08/15/18 10:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*61 - 123*		*08/15/18 10:27*	*1*
Dibromofluoromethane (Surr)	*86*		*68 - 128*		*08/15/18 10:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 143*		*08/15/18 10:27*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-253882/6
Matrix: Water
Analysis Batch: 253882

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		75 - 124		08/15/18 10:27	1

Lab Sample ID: LCS 180-253882/4
Matrix: Water
Analysis Batch: 253882

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	22.3		ug/L		112	36 - 150
Benzene	10.0	9.78		ug/L		98	78 - 118
Bromoform	10.0	8.15		ug/L		81	56 - 150
Bromomethane	10.0	14.4		ug/L		144	34 - 150
2-Butanone (MEK)	20.0	26.1		ug/L		130	30 - 150
Carbon disulfide	10.0	8.56		ug/L		86	66 - 128
Carbon tetrachloride	10.0	9.25		ug/L		92	60 - 137
Chlorobenzene	10.0	9.84		ug/L		98	78 - 118
Chlorobromomethane	10.0	9.85		ug/L		99	72 - 121
Chlorodibromomethane	10.0	8.49		ug/L		85	58 - 140
Chloroethane	10.0	12.0		ug/L		120	37 - 150
Chloroform	10.0	9.72		ug/L		97	68 - 124
Chloromethane	10.0	10.7		ug/L		107	46 - 150
cis-1,2-Dichloroethene	10.0	9.64		ug/L		96	71 - 120
cis-1,3-Dichloropropene	10.0	9.26		ug/L		93	70 - 131
Cyclohexane	10.0	10.1		ug/L		101	70 - 133
1,2-Dibromo-3-Chloropropane	10.0	7.38		ug/L		74	54 - 129
1,2-Dibromoethane	10.0	9.93		ug/L		99	78 - 118
1,2-Dichlorobenzene	10.0	9.32		ug/L		93	78 - 118
1,3-Dichlorobenzene	10.0	9.32		ug/L		93	78 - 118
1,4-Dichlorobenzene	10.0	9.42		ug/L		94	78 - 118
Dichlorobromomethane	10.0	9.38		ug/L		94	66 - 136
Dichlorodifluoromethane	10.0	10.7		ug/L		107	16 - 150
1,1-Dichloroethane	10.0	9.91		ug/L		99	67 - 129
1,2-Dichloroethane	10.0	10.7		ug/L		107	67 - 123
1,1-Dichloroethene	10.0	9.17		ug/L		92	59 - 128
1,2-Dichloroethene, Total	20.0	19.3		ug/L		96	71 - 121
1,2-Dichloropropane	10.0	10.3		ug/L		103	80 - 121
1,4-Dioxane	200	199	J	ug/L		99	51 - 138
Ethylbenzene	10.0	9.98		ug/L		100	78 - 118
2-Hexanone	20.0	23.0		ug/L		115	36 - 150
Isopropylbenzene	10.0	9.80		ug/L		98	76 - 123
Methyl acetate	20.0	21.5	J	ug/L		107	64 - 140
Methylcyclohexane	10.0	9.85		ug/L		99	75 - 124
Methylene Chloride	10.0	8.77		ug/L		88	68 - 120
4-Methyl-2-pentanone (MIBK)	20.0	18.0		ug/L		90	62 - 145
Methyl tert-butyl ether	10.0	9.06		ug/L		91	73 - 121
m-Xylene & p-Xylene	10.0	9.91		ug/L		99	78 - 118
o-Xylene	10.0	9.74		ug/L		97	78 - 118
Styrene	10.0	10.2		ug/L		102	79 - 119
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	71 - 125

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-253882/4
Matrix: Water
Analysis Batch: 253882

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	10.0	9.69		ug/L		97	78 - 118
Toluene	10.0	9.96		ug/L		100	79 - 121
trans-1,2-Dichloroethene	10.0	9.63		ug/L		96	71 - 123
trans-1,3-Dichloropropene	10.0	9.40		ug/L		94	62 - 133
1,2,3-Trichlorobenzene	10.0	8.02		ug/L		80	69 - 131
1,2,4-Trichlorobenzene	10.0	8.35		ug/L		84	65 - 135
1,1,1-Trichloroethane	10.0	9.44		ug/L		94	69 - 135
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	78 - 118
Trichloroethene	10.0	9.60		ug/L		96	76 - 120
Trichlorofluoromethane	10.0	9.30		ug/L		93	25 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.35		ug/L		94	61 - 137
Vinyl chloride	10.0	11.1		ug/L		111	53 - 148
Xylenes, Total	20.0	19.6		ug/L		98	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*61 - 123*
Dibromofluoromethane (Surr)	*98*		*68 - 128*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 143*
Toluene-d8 (Surr)	*100*		*75 - 124*

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

Lab Sample ID: MB 180-254009/1-A
Matrix: Solid
Analysis Batch: 254117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 254009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		67	19	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Acenaphthylene	ND		67	15	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Acetophenone	ND		670	18	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Anthracene	ND		67	17	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Atrazine	ND		670	150	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Benzaldehyde	ND		670	41	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Benzo[a]anthracene	ND		67	13	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Benzo[a]pyrene	ND		67	15	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Benzo[b]fluoranthene	ND		67	16	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Benzo[g,h,i]perylene	ND		67	14	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Benzo[k]fluoranthene	ND		67	20	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
1,1'-Biphenyl	ND		330	14	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Bis(2-chloroethoxy)methane	ND		330	16	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Bis(2-chloroethyl)ether	ND		67	12	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Bis(2-ethylhexyl) phthalate	ND		3300	360	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
4-Bromophenyl phenyl ether	ND		330	23	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Butyl benzyl phthalate	ND		330	230	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Caprolactam	ND		1700	220	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Carbazole	ND		67	16	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
4-Chloroaniline	ND		330	11	ug/Kg		08/15/18 14:53	08/16/18 14:03	1

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

Lab Sample ID: MB 180-254009/1-A
Matrix: Solid
Analysis Batch: 254117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 254009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	ND		330	16	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2-Chloronaphthalene	ND		67	15	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2-Chlorophenol	ND		330	16	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
4-Chlorophenyl phenyl ether	ND		330	20	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Chrysene	ND		67	13	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Dibenz(a,h)anthracene	ND		67	15	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Dibenzofuran	ND		330	15	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
3,3'-Dichlorobenzidine	ND		330	310	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2,4-Dichlorophenol	ND		67	26	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Diethyl phthalate	ND		330	81	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2,4-Dimethylphenol	ND		330	21	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Dimethyl phthalate	ND		330	12	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Di-n-butyl phthalate	ND		330	150	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
4,6-Dinitro-2-methylphenol	ND		1700	580	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2,4-Dinitrophenol	ND		3300	900	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2,4-Dinitrotoluene	ND		330	17	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2,6-Dinitrotoluene	ND		330	21	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Di-n-octyl phthalate	ND		330	190	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
1,4-Dioxane	ND		670	100	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Fluoranthene	ND		67	18	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Fluorene	ND		67	13	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Hexachlorobenzene	ND		67	24	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Hexachlorobutadiene	ND		67	20	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Hexachlorocyclopentadiene	ND		330	17	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Hexachloroethane	ND		330	17	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Indeno[1,2,3-cd]pyrene	ND		67	14	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Isophorone	ND		330	17	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2-Methylnaphthalene	ND		67	16	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2-Methylphenol	ND		330	96	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Methylphenol, 3 & 4	ND		330	98	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Naphthalene	ND		67	13	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2-Nitroaniline	ND		1700	150	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
3-Nitroaniline	ND		1700	85	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
4-Nitroaniline	ND		1700	16	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Nitrobenzene	ND		670	120	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2-Nitrophenol	ND		330	19	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
4-Nitrophenol	ND		1700	230	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
N-Nitrosodi-n-propylamine	ND		67	23	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
N-Nitrosodiphenylamine	ND		330	110	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2,2'-oxybis[1-chloropropane]	ND		67	25	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Pentachlorophenol	ND		1700	540	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Phenanthrene	ND		67	18	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Phenol	ND		330	100	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
Pyrene	ND		67	16	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
1,2,4,5-Tetrachlorobenzene	ND		330	14	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2,3,4,6-Tetrachlorophenol	ND		330	140	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2,4,5-Trichlorophenol	ND		330	24	ug/Kg		08/15/18 14:53	08/16/18 14:03	1
2,4,6-Trichlorophenol	ND		330	18	ug/Kg		08/15/18 14:53	08/16/18 14:03	1

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

Lab Sample ID: MB 180-254009/1-A
Matrix: Solid
Analysis Batch: 254117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 254009

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		47 - 105	08/15/18 14:53	08/16/18 14:03	1
2-Fluorophenol (Surr)	56		35 - 105	08/15/18 14:53	08/16/18 14:03	1
Nitrobenzene-d5 (Surr)	74		47 - 105	08/15/18 14:53	08/16/18 14:03	1
Phenol-d5 (Surr)	57		38 - 105	08/15/18 14:53	08/16/18 14:03	1
Terphenyl-d14 (Surr)	57		42 - 105	08/15/18 14:53	08/16/18 14:03	1
2,4,6-Tribromophenol (Surr)	61		20 - 111	08/15/18 14:53	08/16/18 14:03	1

Lab Sample ID: LCS 180-254009/2-A
Matrix: Solid
Analysis Batch: 254117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 254009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6670	4300		ug/Kg		64	45 - 101
Acenaphthylene	6670	3930		ug/Kg		59	47 - 102
Acetophenone	6670	4310		ug/Kg		65	42 - 100
Anthracene	6670	4170		ug/Kg		63	47 - 105
Atrazine	6670	2570		ug/Kg		39	10 - 122
Benzaldehyde	6670	4200		ug/Kg		63	10 - 119
Benzo[a]anthracene	6670	4180		ug/Kg		63	45 - 105
Benzo[a]pyrene	6670	4140		ug/Kg		62	48 - 100
Benzo[b]fluoranthene	6670	3780		ug/Kg		57	42 - 102
Benzo[g,h,i]perylene	6670	4420		ug/Kg		66	46 - 104
Benzo[k]fluoranthene	6670	3920		ug/Kg		59	48 - 100
1,1'-Biphenyl	6670	4170		ug/Kg		63	45 - 102
Bis(2-chloroethoxy)methane	6670	4620		ug/Kg		69	47 - 100
Bis(2-chloroethyl)ether	6670	4450		ug/Kg		67	46 - 101
Bis(2-ethylhexyl) phthalate	6670	4590		ug/Kg		69	41 - 119
4-Bromophenyl phenyl ether	6670	4460		ug/Kg		67	44 - 109
Butyl benzyl phthalate	6670	4560		ug/Kg		68	41 - 121
Caprolactam	6670	4640		ug/Kg		70	50 - 112
Carbazole	6670	4100		ug/Kg		62	48 - 100
4-Chloroaniline	6670	4130		ug/Kg		62	48 - 100
4-Chloro-3-methylphenol	6670	5320		ug/Kg		80	49 - 105
2-Chloronaphthalene	6670	4030		ug/Kg		60	45 - 100
2-Chlorophenol	6670	4100		ug/Kg		62	49 - 103
4-Chlorophenyl phenyl ether	6670	4600		ug/Kg		69	45 - 104
Chrysene	6670	4210		ug/Kg		63	46 - 100
Dibenz(a,h)anthracene	6670	4500		ug/Kg		67	46 - 107
Dibenzofuran	6670	4420		ug/Kg		66	47 - 100
3,3'-Dichlorobenzidine	6670	4700		ug/Kg		71	44 - 102
2,4-Dichlorophenol	6670	4440		ug/Kg		67	48 - 105
Diethyl phthalate	6670	4890		ug/Kg		73	45 - 105
2,4-Dimethylphenol	6670	5040		ug/Kg		76	45 - 102
Dimethyl phthalate	6670	4500		ug/Kg		68	46 - 106
Di-n-butyl phthalate	6670	4520		ug/Kg		68	50 - 109
4,6-Dinitro-2-methylphenol	13300	8870		ug/Kg		67	34 - 126
2,4-Dinitrophenol	13300	7370		ug/Kg		55	29 - 114
2,4-Dinitrotoluene	6670	4970		ug/Kg		75	48 - 111

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

Lab Sample ID: LCS 180-254009/2-A
Matrix: Solid
Analysis Batch: 254117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 254009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,6-Dinitrotoluene	6670	4530		ug/Kg		68	48 - 109
Di-n-octyl phthalate	6670	4080		ug/Kg		61	35 - 124
1,4-Dioxane	6670	4170		ug/Kg		62	37 - 117
Fluoranthene	6670	4490		ug/Kg		67	49 - 104
Fluorene	6670	4370		ug/Kg		66	46 - 103
Hexachlorobenzene	6670	4600		ug/Kg		69	41 - 111
Hexachlorobutadiene	6670	5300		ug/Kg		80	36 - 113
Hexachlorocyclopentadiene	6670	4050		ug/Kg		61	30 - 120
Hexachloroethane	6670	4810		ug/Kg		72	47 - 101
Indeno[1,2,3-cd]pyrene	6670	4400		ug/Kg		66	46 - 107
Isophorone	6670	4830		ug/Kg		72	45 - 100
2-Methylnaphthalene	6670	4450		ug/Kg		67	49 - 100
2-Methylphenol	6670	4310		ug/Kg		65	48 - 103
Methylphenol, 3 & 4	6670	4460		ug/Kg		67	47 - 103
Naphthalene	6670	4200		ug/Kg		63	49 - 100
2-Nitroaniline	6670	6080		ug/Kg		91	40 - 117
3-Nitroaniline	6670	4110		ug/Kg		62	48 - 109
4-Nitroaniline	6670	4410		ug/Kg		66	45 - 109
Nitrobenzene	6670	5610		ug/Kg		84	44 - 103
2-Nitrophenol	6670	4410		ug/Kg		66	50 - 111
4-Nitrophenol	13300	11800		ug/Kg		88	32 - 126
N-Nitrosodi-n-propylamine	6670	5100		ug/Kg		77	43 - 108
N-Nitrosodiphenylamine	6670	4020		ug/Kg		60	46 - 105
2,2'-oxybis[1-chloropropane]	6670	4630		ug/Kg		69	29 - 115
Pentachlorophenol	13300	8410		ug/Kg		63	35 - 110
Phenanthrene	6670	4110		ug/Kg		62	46 - 103
Phenol	6670	4350		ug/Kg		65	47 - 102
Pyrene	6670	4130		ug/Kg		62	43 - 107
1,2,4,5-Tetrachlorobenzene	6670	4390		ug/Kg		66	37 - 108
2,3,4,6-Tetrachlorophenol	6670	4920		ug/Kg		74	42 - 107
2,4,5-Trichlorophenol	6670	4400		ug/Kg		66	45 - 105
2,4,6-Trichlorophenol	6670	4680		ug/Kg		70	45 - 109

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*47 - 105*
2-Fluorophenol (Surr)	*64*		*35 - 105*
Nitrobenzene-d5 (Surr)	*83*		*47 - 105*
Phenol-d5 (Surr)	*65*		*38 - 105*
Terphenyl-d14 (Surr)	*69*		*42 - 105*
2,4,6-Tribromophenol (Surr)	*78*		*20 - 111*

Lab Sample ID: 180-80802-2 MS
Matrix: Solid
Analysis Batch: 254217

Client Sample ID: SD-02
Prep Type: Total/NA
Prep Batch: 254009

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		8190	5930		ug/Kg	☼	72	45 - 101
Acenaphthylene	ND		8190	5070		ug/Kg	☼	62	47 - 102

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

Lab Sample ID: 180-80802-2 MS
Matrix: Solid
Analysis Batch: 254217

Client Sample ID: SD-02
Prep Type: Total/NA
Prep Batch: 254009

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	ND		8190	4880	J	ug/Kg	☼	60	42 - 100
Anthracene	ND	F2	8190	6260		ug/Kg	☼	76	47 - 105
Atrazine	ND		8190	ND		ug/Kg	☼	NC	10 - 122
Benzaldehyde	ND	F1	8190	ND	F1	ug/Kg	☼	0	10 - 119
Benzo[a]anthracene	ND		8190	7340		ug/Kg	☼	90	45 - 105
Benzo[a]pyrene	ND		8190	6330		ug/Kg	☼	77	48 - 100
Benzo[b]fluoranthene	ND		8190	4600		ug/Kg	☼	56	42 - 102
Benzo[g,h,i]perylene	ND		8190	7210		ug/Kg	☼	88	46 - 104
Benzo[k]fluoranthene	ND		8190	5010		ug/Kg	☼	61	48 - 100
1,1'-Biphenyl	ND		8190	6040	J	ug/Kg	☼	74	45 - 102
Bis(2-chloroethoxy)methane	ND	F2	8190	7570	J	ug/Kg	☼	92	47 - 100
Bis(2-chloroethyl)ether	ND		8190	5590		ug/Kg	☼	68	46 - 101
Bis(2-ethylhexyl) phthalate	ND		8190	ND		ug/Kg	☼	NC	41 - 119
4-Bromophenyl phenyl ether	ND	F2	8190	6470	J	ug/Kg	☼	79	44 - 109
Butyl benzyl phthalate	ND		8190	ND		ug/Kg	☼	NC	41 - 121
Caprolactam	ND		8190	32600	J	ug/Kg	☼	NC	50 - 112
Carbazole	ND	F2	8190	5400		ug/Kg	☼	66	48 - 100
4-Chloroaniline	ND	F1	8190	3290	J F1	ug/Kg	☼	40	48 - 100
4-Chloro-3-methylphenol	ND	F2 F1	8190	5820	J	ug/Kg	☼	71	49 - 105
2-Chloronaphthalene	ND		8190	5720		ug/Kg	☼	70	45 - 100
2-Chlorophenol	ND		8190	4930	J	ug/Kg	☼	60	49 - 103
4-Chlorophenyl phenyl ether	ND		8190	6640	J	ug/Kg	☼	81	45 - 104
Chrysene	ND	F1	8190	7940		ug/Kg	☼	97	46 - 100
Dibenz(a,h)anthracene	ND		8190	6730		ug/Kg	☼	82	46 - 107
Dibenzofuran	ND		8190	5350	J	ug/Kg	☼	65	47 - 100
3,3'-Dichlorobenzidine	ND		8190	ND		ug/Kg	☼	NC	44 - 102
2,4-Dichlorophenol	ND		8190	5290		ug/Kg	☼	65	48 - 105
Diethyl phthalate	ND		8190	6280	J	ug/Kg	☼	77	45 - 105
2,4-Dimethylphenol	ND	F1	8190	9160	J F1	ug/Kg	☼	112	45 - 102
Dimethyl phthalate	ND	F2	8190	7340	J	ug/Kg	☼	90	46 - 106
Di-n-butyl phthalate	ND		8190	ND		ug/Kg	☼	NC	50 - 109
4,6-Dinitro-2-methylphenol	ND		16400	ND		ug/Kg	☼	NC	34 - 126
2,4-Dinitrophenol	ND		16400	ND		ug/Kg	☼	NC	29 - 114
2,4-Dinitrotoluene	ND		8190	6950	J	ug/Kg	☼	85	48 - 111
2,6-Dinitrotoluene	ND	F1 F2	8190	9350	J F1	ug/Kg	☼	114	48 - 109
Di-n-octyl phthalate	ND		8190	12500	J	ug/Kg	☼	NC	35 - 124
1,4-Dioxane	ND	F1	8190	ND	F1	ug/Kg	☼	0	37 - 117
Fluoranthene	ND		8190	7530		ug/Kg	☼	92	49 - 104
Fluorene	ND		8190	6940		ug/Kg	☼	85	46 - 103
Hexachlorobenzene	ND		8190	6410		ug/Kg	☼	78	41 - 111
Hexachlorobutadiene	ND		8190	6660		ug/Kg	☼	81	36 - 113
Hexachlorocyclopentadiene	ND	F1	8190	ND	F1	ug/Kg	☼	0	30 - 120
Hexachloroethane	ND	F2	8190	5540	J	ug/Kg	☼	68	47 - 101
Indeno[1,2,3-cd]pyrene	ND		8190	7060		ug/Kg	☼	86	46 - 107
Isophorone	ND		8190	7160	J	ug/Kg	☼	87	45 - 100
2-Methylnaphthalene	ND		8190	5040		ug/Kg	☼	62	49 - 100
2-Methylphenol	ND	F1	8190	ND	F1	ug/Kg	☼	0	48 - 103
Methylphenol, 3 & 4	ND	F1	8190	ND	F1	ug/Kg	☼	0	47 - 103

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

Lab Sample ID: 180-80802-2 MS
Matrix: Solid
Analysis Batch: 254217

Client Sample ID: SD-02
Prep Type: Total/NA
Prep Batch: 254009

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		8190	5340		ug/Kg	☼	65	49 - 100
2-Nitroaniline	ND		8190	10800	J	ug/Kg	☼	NC	40 - 117
3-Nitroaniline	ND	F1	8190	5450	J	ug/Kg	☼	67	48 - 109
4-Nitroaniline	ND	F2	8190	7960	J	ug/Kg	☼	97	45 - 109
Nitrobenzene	ND	F1	8190	ND	F1	ug/Kg	☼	0	44 - 103
2-Nitrophenol	ND		8190	5600	J	ug/Kg	☼	68	50 - 111
4-Nitrophenol	ND	F1	16400	17900	J	ug/Kg	☼	109	32 - 126
N-Nitrosodi-n-propylamine	ND		8190	6890		ug/Kg	☼	84	43 - 108
N-Nitrosodiphenylamine	ND	F1	8190	12200	J F1	ug/Kg	☼	149	46 - 105
2,2'-oxybis[1-chloropropane]	ND	F2	8190	5120		ug/Kg	☼	62	29 - 115
Pentachlorophenol	ND		16400	ND		ug/Kg	☼	NC	35 - 110
Phenanthrene	ND	F1	8190	9260	F1	ug/Kg	☼	113	46 - 103
Phenol	ND	F1	8190	ND	F1	ug/Kg	☼	0	47 - 102
Pyrene	2600	J	8190	8790		ug/Kg	☼	76	43 - 107
1,2,4,5-Tetrachlorobenzene	ND		8190	5820	J	ug/Kg	☼	71	37 - 108
2,3,4,6-Tetrachlorophenol	ND		8190	ND		ug/Kg	☼	NC	42 - 107
2,4,5-Trichlorophenol	ND		8190	4940	J	ug/Kg	☼	60	45 - 105
2,4,6-Trichlorophenol	ND	F2	8190	7480	J	ug/Kg	☼	91	45 - 109

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*0*	*X D*	*47 - 105*
2-Fluorophenol (Surr)	*0*	*X D*	*35 - 105*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*47 - 105*
Phenol-d5 (Surr)	*0*	*X D*	*38 - 105*
Terphenyl-d14 (Surr)	*0*	*X D*	*42 - 105*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*20 - 111*

Lab Sample ID: 180-80802-2 MSD
Matrix: Solid
Analysis Batch: 254217

Client Sample ID: SD-02
Prep Type: Total/NA
Prep Batch: 254009

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		8090	6850		ug/Kg	☼	85	45 - 101	14	18
Acenaphthylene	ND		8090	5120		ug/Kg	☼	63	47 - 102	1	18
Acetophenone	ND		8090	5490	J	ug/Kg	☼	68	42 - 100	12	17
Anthracene	ND	F2	8090	8450	F2	ug/Kg	☼	104	47 - 105	30	16
Atrazine	ND		8090	ND		ug/Kg	☼	NC	10 - 122	NC	15
Benzaldehyde	ND	F1	8090	3080	J	ug/Kg	☼	38	10 - 119	NC	20
Benzo[a]anthracene	ND		8090	7780		ug/Kg	☼	96	45 - 105	6	17
Benzo[a]pyrene	ND		8090	5520		ug/Kg	☼	68	48 - 100	14	17
Benzo[b]fluoranthene	ND		8090	4680		ug/Kg	☼	58	42 - 102	2	18
Benzo[g,h,i]perylene	ND		8090	7720		ug/Kg	☼	96	46 - 104	7	16
Benzo[k]fluoranthene	ND		8090	4870		ug/Kg	☼	60	48 - 100	3	19
1,1'-Biphenyl	ND		8090	5390	J	ug/Kg	☼	67	45 - 102	11	20
Bis(2-chloroethoxy)methane	ND	F2	8090	6060	J F2	ug/Kg	☼	75	47 - 100	22	18
Bis(2-chloroethyl)ether	ND		8090	6350		ug/Kg	☼	79	46 - 101	13	15
Bis(2-ethylhexyl) phthalate	ND		8090	ND		ug/Kg	☼	NC	41 - 119	NC	18
4-Bromophenyl phenyl ether	ND	F2	8090	5410	J F2	ug/Kg	☼	67	44 - 109	18	16

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

Lab Sample ID: 180-80802-2 MSD
Matrix: Solid
Analysis Batch: 254217

Client Sample ID: SD-02
Prep Type: Total/NA
Prep Batch: 254009

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl benzyl phthalate	ND		8090	ND		ug/Kg	☼	NC	41 - 121	NC	16
Caprolactam	ND		8090	32400	J	ug/Kg	☼	NC	50 - 112	1	21
Carbazole	ND	F2	8090	4370	F2	ug/Kg	☼	54	48 - 100	21	16
4-Chloroaniline	ND	F1	8090	3610	J F1	ug/Kg	☼	45	48 - 100	9	19
4-Chloro-3-methylphenol	ND	F2 F1	8090	8660	J F1 F2	ug/Kg	☼	107	49 - 105	39	23
2-Chloronaphthalene	ND		8090	5730		ug/Kg	☼	71	45 - 100	0	19
2-Chlorophenol	ND		8090	5580	J	ug/Kg	☼	69	49 - 103	12	17
4-Chlorophenyl phenyl ether	ND		8090	6280	J	ug/Kg	☼	78	45 - 104	6	19
Chrysene	ND	F1	8090	8640	F1	ug/Kg	☼	107	46 - 100	8	20
Dibenz(a,h)anthracene	ND		8090	6340		ug/Kg	☼	78	46 - 107	6	16
Dibenzofuran	ND		8090	5920	J	ug/Kg	☼	73	47 - 100	10	18
3,3'-Dichlorobenzidine	ND		8090	ND		ug/Kg	☼	NC	44 - 102	NC	16
2,4-Dichlorophenol	ND		8090	5210		ug/Kg	☼	64	48 - 105	1	19
Diethyl phthalate	ND		8090	6760	J	ug/Kg	☼	84	45 - 105	7	20
2,4-Dimethylphenol	ND	F1	8090	8920	J F1	ug/Kg	☼	110	45 - 102	3	17
Dimethyl phthalate	ND	F2	8090	5910	J F2	ug/Kg	☼	73	46 - 106	21	19
Di-n-butyl phthalate	ND		8090	ND		ug/Kg	☼	NC	50 - 109	NC	15
4,6-Dinitro-2-methylphenol	ND		16200	ND		ug/Kg	☼	NC	34 - 126	NC	15
2,4-Dinitrophenol	ND		16200	ND		ug/Kg	☼	NC	29 - 114	NC	18
2,4-Dinitrotoluene	ND		8090	6110	J	ug/Kg	☼	76	48 - 111	13	20
2,6-Dinitrotoluene	ND	F1 F2	8090	5270	J F2	ug/Kg	☼	65	48 - 109	56	18
Di-n-octyl phthalate	ND		8090	12000	J	ug/Kg	☼	NC	35 - 124	NC	18
1,4-Dioxane	ND	F1	8090	ND	F1	ug/Kg	☼	0	37 - 117	NC	16
Fluoranthene	ND		8090	6390		ug/Kg	☼	79	49 - 104	16	17
Fluorene	ND		8090	7590		ug/Kg	☼	94	46 - 103	9	17
Hexachlorobenzene	ND		8090	5400		ug/Kg	☼	67	41 - 111	17	18
Hexachlorobutadiene	ND		8090	5910		ug/Kg	☼	73	36 - 113	12	17
Hexachlorocyclopentadiene	ND	F1	8090	ND	F1	ug/Kg	☼	0	30 - 120	NC	20
Hexachloroethane	ND	F2	8090	7450	J F2	ug/Kg	☼	92	47 - 101	29	17
Indeno[1,2,3-cd]pyrene	ND		8090	6410		ug/Kg	☼	79	46 - 107	10	18
Isophorone	ND		8090	6170	J	ug/Kg	☼	76	45 - 100	15	18
2-Methylnaphthalene	ND		8090	4950		ug/Kg	☼	61	49 - 100	2	19
2-Methylphenol	ND	F1	8090	ND	F1	ug/Kg	☼	0	48 - 103	NC	17
Methylphenol, 3 & 4	ND	F1	8090	ND	F1	ug/Kg	☼	0	47 - 103	NC	15
Naphthalene	ND		8090	5690		ug/Kg	☼	70	49 - 100	6	19
2-Nitroaniline	ND		8090	10500	J	ug/Kg	☼	NC	40 - 117	3	19
3-Nitroaniline	ND	F1	8090	ND	F1	ug/Kg	☼	0	48 - 109	NC	17
4-Nitroaniline	ND	F2	8090	6360	J F2	ug/Kg	☼	79	45 - 109	22	19
Nitrobenzene	ND	F1	8090	ND	F1	ug/Kg	☼	0	44 - 103	NC	19
2-Nitrophenol	ND		8090	5240	J	ug/Kg	☼	65	50 - 111	7	19
4-Nitrophenol	ND	F1	16200	ND	F1	ug/Kg	☼	0	32 - 126	NC	21
N-Nitrosodi-n-propylamine	ND		8090	6140		ug/Kg	☼	76	43 - 108	11	16
N-Nitrosodiphenylamine	ND	F1	8090	12700	J F1	ug/Kg	☼	156	46 - 105	4	17
2,2'-oxybis[1-chloropropane]	ND	F2	8090	6270	F2	ug/Kg	☼	77	29 - 115	20	15
Pentachlorophenol	ND		16200	ND		ug/Kg	☼	NC	35 - 110	NC	16
Phenanthrene	ND	F1	8090	9420	F1	ug/Kg	☼	116	46 - 103	2	18
Phenol	ND	F1	8090	ND	F1	ug/Kg	☼	0	47 - 102	NC	17
Pyrene	2600	J	8090	9380		ug/Kg	☼	84	43 - 107	7	17

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

Lab Sample ID: 180-80802-2 MSD
Matrix: Solid
Analysis Batch: 254217

Client Sample ID: SD-02
Prep Type: Total/NA
Prep Batch: 254009

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		8090	6070	J	ug/Kg	☼	75	37 - 108	4	19
2,3,4,6-Tetrachlorophenol	ND		8090	ND		ug/Kg	☼	NC	42 - 107	NC	18
2,4,5-Trichlorophenol	ND		8090	4610	J	ug/Kg	☼	57	45 - 105	7	21
2,4,6-Trichlorophenol	ND	F2	8090	4350	J F2	ug/Kg	☼	54	45 - 109	53	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*0*	*X D*	*47 - 105*
2-Fluorophenol (Surr)	*0*	*X D*	*35 - 105*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*47 - 105*
Phenol-d5 (Surr)	*0*	*X D*	*38 - 105*
Terphenyl-d14 (Surr)	*0*	*X D*	*42 - 105*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*20 - 111*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-253991/1-C
Matrix: Solid
Analysis Batch: 254176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1221	ND		17	11	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1232	ND		17	9.9	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1242	ND		17	10	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1248	ND		17	13	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1254	ND		17	11	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1260	ND		17	4.7	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1262	ND		17	12	ug/Kg		08/15/18 13:28	08/17/18 17:38	1
PCB-1268	ND		17	8.1	ug/Kg		08/15/18 13:28	08/17/18 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*106*		*33 - 137*	*08/15/18 13:28*	*08/17/18 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*33 - 137*	*08/15/18 13:28*	*08/17/18 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*44 - 114*	*08/15/18 13:28*	*08/17/18 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*44 - 114*	*08/15/18 13:28*	*08/17/18 17:38*	*1*

Lab Sample ID: LCS 180-253991/2-C
Matrix: Solid
Analysis Batch: 254176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253991

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1180		ug/Kg		89	46 - 122		
PCB-1260			1330	1300		ug/Kg		97	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*105*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*105*		*33 - 137*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 180-253991/2-C
Matrix: Solid
Analysis Batch: 254176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253991

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	96		44 - 114
Tetrachloro-m-xylene (Surr)	96		44 - 114

GC/MS VOA

Analysis Batch: 253609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-1	SD-01	Total/NA	Solid	EPA 8260C	253614
MB 180-253609/5	Method Blank	Total/NA	Solid	EPA 8260C	
LCS 180-253609/3	Lab Control Sample	Total/NA	Solid	EPA 8260C	

Prep Batch: 253614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-1	SD-01	Total/NA	Solid	5035	

Analysis Batch: 253882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-4	TRIP BLANK	Total/NA	Water	EPA 8260C	
MB 180-253882/6	Method Blank	Total/NA	Water	EPA 8260C	
LCS 180-253882/4	Lab Control Sample	Total/NA	Water	EPA 8260C	

GC/MS Semi VOA

Prep Batch: 254009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-2	SD-02	Total/NA	Solid	3541	
MB 180-254009/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-254009/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-80802-2 MS	SD-02	Total/NA	Solid	3541	
180-80802-2 MSD	SD-02	Total/NA	Solid	3541	

Analysis Batch: 254117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-254009/1-A	Method Blank	Total/NA	Solid	EPA 8270D	254009
LCS 180-254009/2-A	Lab Control Sample	Total/NA	Solid	EPA 8270D	254009

Analysis Batch: 254217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-2	SD-02	Total/NA	Solid	EPA 8270D	254009
180-80802-2 MS	SD-02	Total/NA	Solid	EPA 8270D	254009
180-80802-2 MSD	SD-02	Total/NA	Solid	EPA 8270D	254009

GC Semi VOA

Prep Batch: 253991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-3	SSHS-B1501	Total/NA	Solid	3541	
MB 180-253991/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-253991/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 254176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-253991/1-C	Method Blank	Total/NA	Solid	EPA 8082A	254228
LCS 180-253991/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	254228

GC Semi VOA (Continued)

Cleanup Batch: 254227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-3	SSHS-B1501	Total/NA	Solid	3665A	253991
MB 180-253991/1-C	Method Blank	Total/NA	Solid	3665A	253991
LCS 180-253991/2-C	Lab Control Sample	Total/NA	Solid	3665A	253991

Cleanup Batch: 254228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-3	SSHS-B1501	Total/NA	Solid	3660B	254227
MB 180-253991/1-C	Method Blank	Total/NA	Solid	3660B	254227
LCS 180-253991/2-C	Lab Control Sample	Total/NA	Solid	3660B	254227

Analysis Batch: 254345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-3	SSHS-B1501	Total/NA	Solid	EPA 8082A	254228

General Chemistry

Analysis Batch: 253723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-80802-1	SD-01	Total/NA	Solid	2540G	
180-80802-2	SD-02	Total/NA	Solid	2540G	
180-80802-3	SSHS-B1501	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Cody Saville + Matt Schallinger	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No:
Client Contact: Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:

Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Columbia, MD	TAT Requested (days): standard		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MD, 21044			
Phone: (202) 550-7724	PO #: MN0832D		Other:
Email: akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #:		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	VOCs	SVOCs	Total Number of containers	Special I
			Preservation Code:		N	N					
SD-01	08/10/2018	1200	G	Solid	N	N		X		4	
SD-02	08/10/2018	1205	G	Solid	N	N			X	2	
SWS-B1501	8/10/18	1625	G	Solid	N	N	X			2	
Trip Blank	8/10/18	1700	—	Solid	N	N		X		2	
				Solid	N						
				Solid	N						
				Solid	N						
				Solid	N						
				Solid	N						
				Solid	N						
				Solid	N						

180-80802 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/10/18 1900	Geosyntec	FedEx	8/10/18 1900	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			Debbie Watson	8-1-18	TAPitt
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				9:05	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-80802-1

Login Number: 80802
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-81229-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/30/2018 2:17:37 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

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Job ID: 180-81229-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-81229-1

Receipt
The samples were received on 8/24/2018 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: ULC-01-20180823 (180-81229-3) and DUP-01-20180823 (180-81229-6). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-255305 (CCV 180-255305/4) was above criteria for 2 peaks for aroclor 1248 on column RTX-CLP1. The associated sample results for aroclor 1248 were reported from column RTX-CLP2 which met criteria.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-255305 (CCVIS 180-255305/5) was above criteria for 1 peak for aroclor 1016 on column RTX-CLP1. As the CCV was high and aroclor 1016 was not detected in the associated samples, the results were reported.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-255305 (CCVIS 180-255305/5) was above criteria for 1 peak for aroclor 1260 on column RTX-CLP1. This peak was not used in the quantitation of sample results for aroclor 1260.

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.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81229-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-81229-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81229-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-81229-1	TSCAPAD-01-20180823	Solid	08/23/18 15:00	08/24/18 09:25
180-81229-2	TSCAPAD-02-20180823	Solid	08/23/18 15:05	08/24/18 09:25
180-81229-3	ULC-01-20180823	Solid	08/23/18 15:10	08/24/18 09:25
180-81229-4	MSA-01-20180823	Solid	08/23/18 15:15	08/24/18 09:25
180-81229-5	CP-01-20180823	Solid	08/23/18 15:20	08/24/18 09:25
180-81229-6	DUP-01-20180823	Solid	08/23/18 00:00	08/24/18 09:25

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81229-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
EPA 6010C	Metals (ICP)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3010A	Preparation, Total Metals	SW846	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
EPA 1311	TCLP Extraction	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81229-1

Client Sample ID: TSCAPAD-01-20180823
Lab Sample ID: 180-81229-1
Date Collected: 08/23/18 15:00
Matrix: Solid
Date Received: 08/24/18 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25 g	500 mL	255247	08/28/18 12:51	TAH	TAL PIT
TCLP	Prep	3010A			5 mL	50 mL	255413	08/29/18 14:37	NAM	TAL PIT
TCLP	Analysis	EPA 6010C		1			255540	08/30/18 11:34	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Analysis	2540G		1			254990	08/24/18 15:14	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: TSCAPAD-01-20180823
Lab Sample ID: 180-81229-1
Date Collected: 08/23/18 15:00
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	255160	08/27/18 16:18	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	255297	08/29/18 05:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	255298	08/29/18 05:14	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			255305	08/29/18 08:24	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: TSCAPAD-02-20180823
Lab Sample ID: 180-81229-2
Date Collected: 08/23/18 15:05
Matrix: Solid
Date Received: 08/24/18 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25 g	500 mL	255247	08/28/18 12:51	TAH	TAL PIT
TCLP	Prep	3010A			5 mL	50 mL	255464	08/30/18 07:47	RJR	TAL PIT
TCLP	Analysis	EPA 6010C		1			255540	08/30/18 12:15	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Analysis	2540G		1			254990	08/24/18 15:14	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: TSCAPAD-02-20180823
Lab Sample ID: 180-81229-2
Date Collected: 08/23/18 15:05
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	255160	08/27/18 16:18	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	255297	08/29/18 05:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	255298	08/29/18 05:14	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			255305	08/29/18 08:43	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81229-1

Client Sample ID: ULC-01-20180823
Date Collected: 08/23/18 15:10
Date Received: 08/24/18 09:25

Lab Sample ID: 180-81229-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25 g	500 mL	255247	08/28/18 12:51	TAH	TAL PIT
TCLP	Prep	3010A			5 mL	50 mL	255413	08/29/18 14:37	NAM	TAL PIT
TCLP	Analysis	EPA 6010C		1			255540	08/30/18 11:40	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Analysis	2540G		1			254990	08/24/18 15:14	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: ULC-01-20180823
Date Collected: 08/23/18 15:10
Date Received: 08/24/18 09:25

Lab Sample ID: 180-81229-3
Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	255160	08/27/18 16:18	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	255297	08/29/18 05:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	255298	08/29/18 05:14	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			255305	08/29/18 11:13	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: MSA-01-20180823
Date Collected: 08/23/18 15:15
Date Received: 08/24/18 09:25

Lab Sample ID: 180-81229-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25 g	500 mL	255247	08/28/18 12:51	TAH	TAL PIT
TCLP	Prep	3010A			5 mL	50 mL	255413	08/29/18 14:37	NAM	TAL PIT
TCLP	Analysis	EPA 6010C		1			255540	08/30/18 11:45	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Analysis	2540G		1			254990	08/24/18 15:14	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: MSA-01-20180823
Date Collected: 08/23/18 15:15
Date Received: 08/24/18 09:25

Lab Sample ID: 180-81229-4
Matrix: Solid
Percent Solids: 67.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	255160	08/27/18 16:18	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	255297	08/29/18 05:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	255298	08/29/18 05:14	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			255305	08/29/18 09:21	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81229-1

Client Sample ID: CP-01-20180823
Date Collected: 08/23/18 15:20
Date Received: 08/24/18 09:25

Lab Sample ID: 180-81229-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25 g	500 mL	255247	08/28/18 12:51	TAH	TAL PIT
TCLP	Prep	3010A			5 mL	50 mL	255413	08/29/18 14:37	NAM	TAL PIT
TCLP	Analysis	EPA 6010C		1			255540	08/30/18 11:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Analysis	2540G		1			254990	08/24/18 15:14	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: CP-01-20180823
Date Collected: 08/23/18 15:20
Date Received: 08/24/18 09:25

Lab Sample ID: 180-81229-5
Matrix: Solid
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	255160	08/27/18 16:18	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	255297	08/29/18 05:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	255298	08/29/18 05:14	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			255305	08/29/18 09:39	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: DUP-01-20180823
Date Collected: 08/23/18 00:00
Date Received: 08/24/18 09:25

Lab Sample ID: 180-81229-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25 g	500 mL	255247	08/28/18 13:04	TAH	TAL PIT
TCLP	Prep	3010A			5 mL	50 mL	255413	08/29/18 14:37	NAM	TAL PIT
TCLP	Analysis	EPA 6010C		1			255540	08/30/18 11:55	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Analysis	2540G		1			254990	08/24/18 15:14	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-01-20180823
Date Collected: 08/23/18 00:00
Date Received: 08/24/18 09:25

Lab Sample ID: 180-81229-6
Matrix: Solid
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	255160	08/27/18 16:18	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	255297	08/29/18 05:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	255298	08/29/18 05:14	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		10			255305	08/29/18 11:42	JMO	TAL PIT
	Instrument ID: CHGC10									

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81229-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

TAH = Todd Harteis

Batch Type: Prep

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

JMO = John Oravec

RJG = Rob Good

Client Sample ID: TSCAPAD-01-20180823

Lab Sample ID: 180-81229-1
Date Collected: 08/23/18 15:00
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 92.1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.7	ug/Kg	☼	08/27/18 16:18	08/29/18 08:24	1
PCB-1221	ND		18	11	ug/Kg	☼	08/27/18 16:18	08/29/18 08:24	1
PCB-1232	ND		18	10	ug/Kg	☼	08/27/18 16:18	08/29/18 08:24	1
PCB-1242	ND		18	11	ug/Kg	☼	08/27/18 16:18	08/29/18 08:24	1
PCB-1248	**730**		18	14	ug/Kg	☼	08/27/18 16:18	08/29/18 08:24	1
PCB-1254	**260**		18	12	ug/Kg	☼	08/27/18 16:18	08/29/18 08:24	1
PCB-1260	**45**		18	5.0	ug/Kg	☼	08/27/18 16:18	08/29/18 08:24	1
PCB-1262	ND		18	12	ug/Kg	☼	08/27/18 16:18	08/29/18 08:24	1
PCB-1268	ND		18	8.6	ug/Kg	☼	08/27/18 16:18	08/29/18 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*33 - 137*	*08/27/18 16:18*	*08/29/18 08:24*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*08/27/18 16:18*	*08/29/18 08:24*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*	*08/27/18 16:18*	*08/29/18 08:24*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*	*08/27/18 16:18*	*08/29/18 08:24*	*1*

Method: EPA 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.029	mg/L		08/29/18 14:37	08/30/18 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			08/24/18 15:14	1
Percent Solids	**92.1**		0.1	0.1	%			08/24/18 15:14	1

Client Sample ID: TSCAPAD-02-20180823

Lab Sample ID: 180-81229-2
Date Collected: 08/23/18 15:05
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 92.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.8	ug/Kg	☼	08/27/18 16:18	08/29/18 08:43	1
PCB-1221	ND		18	12	ug/Kg	☼	08/27/18 16:18	08/29/18 08:43	1
PCB-1232	ND		18	11	ug/Kg	☼	08/27/18 16:18	08/29/18 08:43	1
PCB-1242	ND		18	11	ug/Kg	☼	08/27/18 16:18	08/29/18 08:43	1
PCB-1248	**180**		18	14	ug/Kg	☼	08/27/18 16:18	08/29/18 08:43	1
PCB-1254	**90**		18	12	ug/Kg	☼	08/27/18 16:18	08/29/18 08:43	1
PCB-1260	**21**		18	5.1	ug/Kg	☼	08/27/18 16:18	08/29/18 08:43	1
PCB-1262	ND		18	13	ug/Kg	☼	08/27/18 16:18	08/29/18 08:43	1
PCB-1268	ND		18	8.7	ug/Kg	☼	08/27/18 16:18	08/29/18 08:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*105*		*33 - 137*	*08/27/18 16:18*	*08/29/18 08:43*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*33 - 137*	*08/27/18 16:18*	*08/29/18 08:43*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/27/18 16:18*	*08/29/18 08:43*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*44 - 114*	*08/27/18 16:18*	*08/29/18 08:43*	*1*

Method: EPA 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.029	mg/L		08/30/18 07:47	08/30/18 12:15	1

Client Sample ID: TSCAPAD-02-20180823

Lab Sample ID: 180-81229-2
Date Collected: 08/23/18 15:05
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 92.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.2**		0.1	0.1	%			08/24/18 15:14	1
Percent Solids	**92.8**		0.1	0.1	%			08/24/18 15:14	1

Client Sample ID: ULC-01-20180823

Lab Sample ID: 180-81229-3
Date Collected: 08/23/18 15:10
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 86.9

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	62	ug/Kg	☼	08/27/18 16:18	08/29/18 11:13	10
PCB-1221	ND		190	120	ug/Kg	☼	08/27/18 16:18	08/29/18 11:13	10
PCB-1232	ND		190	110	ug/Kg	☼	08/27/18 16:18	08/29/18 11:13	10
PCB-1242	ND		190	110	ug/Kg	☼	08/27/18 16:18	08/29/18 11:13	10
PCB-1248	**9400**		190	150	ug/Kg	☼	08/27/18 16:18	08/29/18 11:13	10
PCB-1254	**3400**		190	130	ug/Kg	☼	08/27/18 16:18	08/29/18 11:13	10
PCB-1260	**630**		190	55	ug/Kg	☼	08/27/18 16:18	08/29/18 11:13	10
PCB-1262	ND		190	130	ug/Kg	☼	08/27/18 16:18	08/29/18 11:13	10
PCB-1268	ND		190	93	ug/Kg	☼	08/27/18 16:18	08/29/18 11:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*	*08/27/18 16:18*	*08/29/18 11:13*	*10*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*	*08/27/18 16:18*	*08/29/18 11:13*	*10*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/27/18 16:18*	*08/29/18 11:13*	*10*
Tetrachloro-m-xylene (Surr)	*74*		*44 - 114*	*08/27/18 16:18*	*08/29/18 11:13*	*10*

Method: EPA 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.078**	**J**	0.50	0.029	mg/L		08/29/18 14:37	08/30/18 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			08/24/18 15:14	1
Percent Solids	**86.9**		0.1	0.1	%			08/24/18 15:14	1

Client Sample ID: MSA-01-20180823

Lab Sample ID: 180-81229-4
Date Collected: 08/23/18 15:15
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 67.5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		25	8.0	ug/Kg	☼	08/27/18 16:18	08/29/18 09:21	1
PCB-1221	ND		25	16	ug/Kg	☼	08/27/18 16:18	08/29/18 09:21	1
PCB-1232	ND		25	15	ug/Kg	☼	08/27/18 16:18	08/29/18 09:21	1
PCB-1242	ND		25	15	ug/Kg	☼	08/27/18 16:18	08/29/18 09:21	1
PCB-1248	**5400**		25	19	ug/Kg	☼	08/27/18 16:18	08/29/18 09:21	1
PCB-1254	**2200**		25	17	ug/Kg	☼	08/27/18 16:18	08/29/18 09:21	1
PCB-1260	**460**		25	7.0	ug/Kg	☼	08/27/18 16:18	08/29/18 09:21	1
PCB-1262	ND		25	17	ug/Kg	☼	08/27/18 16:18	08/29/18 09:21	1
PCB-1268	ND		25	12	ug/Kg	☼	08/27/18 16:18	08/29/18 09:21	1

Client Sample ID: MSA-01-20180823

Lab Sample ID: 180-81229-4
Date Collected: 08/23/18 15:15
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 67.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*	*08/27/18 16:18*	*08/29/18 09:21*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*33 - 137*	*08/27/18 16:18*	*08/29/18 09:21*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/27/18 16:18*	*08/29/18 09:21*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*44 - 114*	*08/27/18 16:18*	*08/29/18 09:21*	*1*

Method: EPA 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.029	mg/L		08/29/18 14:37	08/30/18 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**32.5**		0.1	0.1	%			08/24/18 15:14	1
Percent Solids	**67.5**		0.1	0.1	%			08/24/18 15:14	1

Client Sample ID: CP-01-20180823

Lab Sample ID: 180-81229-5
Date Collected: 08/23/18 15:20
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 94.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.7	ug/Kg	☼	08/27/18 16:18	08/29/18 09:39	1
PCB-1221	ND		17	11	ug/Kg	☼	08/27/18 16:18	08/29/18 09:39	1
PCB-1232	ND		17	10	ug/Kg	☼	08/27/18 16:18	08/29/18 09:39	1
PCB-1242	ND		17	10	ug/Kg	☼	08/27/18 16:18	08/29/18 09:39	1
PCB-1248	**1000**		17	14	ug/Kg	☼	08/27/18 16:18	08/29/18 09:39	1
PCB-1254	**370**		17	12	ug/Kg	☼	08/27/18 16:18	08/29/18 09:39	1
PCB-1260	**74**		17	5.0	ug/Kg	☼	08/27/18 16:18	08/29/18 09:39	1
PCB-1262	ND		17	12	ug/Kg	☼	08/27/18 16:18	08/29/18 09:39	1
PCB-1268	ND		17	8.5	ug/Kg	☼	08/27/18 16:18	08/29/18 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*33 - 137*	*08/27/18 16:18*	*08/29/18 09:39*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*	*08/27/18 16:18*	*08/29/18 09:39*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*08/27/18 16:18*	*08/29/18 09:39*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*44 - 114*	*08/27/18 16:18*	*08/29/18 09:39*	*1*

Method: EPA 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.029	mg/L		08/29/18 14:37	08/30/18 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.2**		0.1	0.1	%			08/24/18 15:14	1
Percent Solids	**94.8**		0.1	0.1	%			08/24/18 15:14	1

Client Sample ID: DUP-01-20180823

Lab Sample ID: 180-81229-6
Date Collected: 08/23/18 00:00
Matrix: Solid
Date Received: 08/24/18 09:25
Percent Solids: 85.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	63	ug/Kg	☼	08/27/18 16:18	08/29/18 11:42	10

Client Sample ID: DUP-01-20180823
Date Collected: 08/23/18 00:00
Date Received: 08/24/18 09:25

Lab Sample ID: 180-81229-6
Matrix: Solid
Percent Solids: 85.8

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		190	130	ug/Kg	☼	08/27/18 16:18	08/29/18 11:42	10
PCB-1232	ND		190	120	ug/Kg	☼	08/27/18 16:18	08/29/18 11:42	10
PCB-1242	ND		190	120	ug/Kg	☼	08/27/18 16:18	08/29/18 11:42	10
PCB-1248	**11000**		190	150	ug/Kg	☼	08/27/18 16:18	08/29/18 11:42	10
PCB-1254	**3000**		190	130	ug/Kg	☼	08/27/18 16:18	08/29/18 11:42	10
PCB-1260	**660**		190	55	ug/Kg	☼	08/27/18 16:18	08/29/18 11:42	10
PCB-1262	ND		190	140	ug/Kg	☼	08/27/18 16:18	08/29/18 11:42	10
PCB-1268	ND		190	94	ug/Kg	☼	08/27/18 16:18	08/29/18 11:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*08/27/18 16:18*	*08/29/18 11:42*	*10*
DCB Decachlorobiphenyl (Surr)	*74*		*33 - 137*	*08/27/18 16:18*	*08/29/18 11:42*	*10*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/27/18 16:18*	*08/29/18 11:42*	*10*
Tetrachloro-m-xylene (Surr)	*69*		*44 - 114*	*08/27/18 16:18*	*08/29/18 11:42*	*10*

Method: EPA 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.11**	**J**	0.50	0.029	mg/L		08/29/18 14:37	08/30/18 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		0.1	0.1	%			08/24/18 15:14	1
Percent Solids	**85.8**		0.1	0.1	%			08/24/18 15:14	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-255160/1-C
Matrix: Solid
Analysis Batch: 255305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		08/27/18 16:18	08/29/18 07:47	1
PCB-1221	ND		17	11	ug/Kg		08/27/18 16:18	08/29/18 07:47	1
PCB-1232	ND		17	9.9	ug/Kg		08/27/18 16:18	08/29/18 07:47	1
PCB-1242	ND		17	10	ug/Kg		08/27/18 16:18	08/29/18 07:47	1
PCB-1248	ND		17	13	ug/Kg		08/27/18 16:18	08/29/18 07:47	1
PCB-1254	ND		17	11	ug/Kg		08/27/18 16:18	08/29/18 07:47	1
PCB-1260	ND		17	4.7	ug/Kg		08/27/18 16:18	08/29/18 07:47	1
PCB-1262	ND		17	12	ug/Kg		08/27/18 16:18	08/29/18 07:47	1
PCB-1268	ND		17	8.1	ug/Kg		08/27/18 16:18	08/29/18 07:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*33 - 137*	*08/27/18 16:18*	*08/29/18 07:47*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*33 - 137*	*08/27/18 16:18*	*08/29/18 07:47*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*	*08/27/18 16:18*	*08/29/18 07:47*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*44 - 114*	*08/27/18 16:18*	*08/29/18 07:47*	*1*

Lab Sample ID: LCS 180-255160/3-C
Matrix: Solid
Analysis Batch: 255305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1330	1190		ug/Kg		89	46 - 122
PCB-1260	1330	1230		ug/Kg		92	51 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*84*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*89*		*44 - 114*

Method: EPA 6010C - Metals (ICP)

Lab Sample ID: MB 180-255413/1-A
Matrix: Solid
Analysis Batch: 255540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050	0.0029	mg/L		08/29/18 14:37	08/30/18 08:38	1

Lab Sample ID: LCS 180-255413/2-A
Matrix: Solid
Analysis Batch: 255540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.487		mg/L		97	80 - 120

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-255464/1-A
Matrix: Solid
Analysis Batch: 255540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050	0.0029	mg/L		08/30/18 07:47	08/30/18 12:01	1

Lab Sample ID: LCS 180-255464/2-A
Matrix: Solid
Analysis Batch: 255540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.476		mg/L		95	80 - 120

Lab Sample ID: LCSD 180-255464/3-A
Matrix: Solid
Analysis Batch: 255540

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 255464

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.500	0.472		mg/L		94	80 - 120	1	20

Lab Sample ID: LB 180-255247/1-B
Matrix: Solid
Analysis Batch: 255540

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 255413

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.029	mg/L		08/29/18 14:37	08/30/18 08:48	1

Method: 2540G - SM 2540G

Lab Sample ID: 180-81229-1 DU
Matrix: Solid
Analysis Batch: 254990

Client Sample ID: TSCAPAD-01-20180823
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	7.9		7.8		%		2	20
Percent Solids	92.1		92.2		%		0.2	20

GC Semi VOA

Prep Batch: 255160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-1	TSCAPAD-01-20180823	Total/NA	Solid	3541	
180-81229-2	TSCAPAD-02-20180823	Total/NA	Solid	3541	
180-81229-3	ULC-01-20180823	Total/NA	Solid	3541	
180-81229-4	MSA-01-20180823	Total/NA	Solid	3541	
180-81229-5	CP-01-20180823	Total/NA	Solid	3541	
180-81229-6	DUP-01-20180823	Total/NA	Solid	3541	
MB 180-255160/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-255160/3-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 255297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-1	TSCAPAD-01-20180823	Total/NA	Solid	3665A	255160
180-81229-2	TSCAPAD-02-20180823	Total/NA	Solid	3665A	255160
180-81229-3	ULC-01-20180823	Total/NA	Solid	3665A	255160
180-81229-4	MSA-01-20180823	Total/NA	Solid	3665A	255160
180-81229-5	CP-01-20180823	Total/NA	Solid	3665A	255160
180-81229-6	DUP-01-20180823	Total/NA	Solid	3665A	255160
MB 180-255160/1-C	Method Blank	Total/NA	Solid	3665A	255160
LCS 180-255160/3-C	Lab Control Sample	Total/NA	Solid	3665A	255160

Cleanup Batch: 255298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-1	TSCAPAD-01-20180823	Total/NA	Solid	3660B	255297
180-81229-2	TSCAPAD-02-20180823	Total/NA	Solid	3660B	255297
180-81229-3	ULC-01-20180823	Total/NA	Solid	3660B	255297
180-81229-4	MSA-01-20180823	Total/NA	Solid	3660B	255297
180-81229-5	CP-01-20180823	Total/NA	Solid	3660B	255297
180-81229-6	DUP-01-20180823	Total/NA	Solid	3660B	255297
MB 180-255160/1-C	Method Blank	Total/NA	Solid	3660B	255297
LCS 180-255160/3-C	Lab Control Sample	Total/NA	Solid	3660B	255297

Analysis Batch: 255305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-1	TSCAPAD-01-20180823	Total/NA	Solid	EPA 8082A	255298
180-81229-2	TSCAPAD-02-20180823	Total/NA	Solid	EPA 8082A	255298
180-81229-3	ULC-01-20180823	Total/NA	Solid	EPA 8082A	255298
180-81229-4	MSA-01-20180823	Total/NA	Solid	EPA 8082A	255298
180-81229-5	CP-01-20180823	Total/NA	Solid	EPA 8082A	255298
180-81229-6	DUP-01-20180823	Total/NA	Solid	EPA 8082A	255298
MB 180-255160/1-C	Method Blank	Total/NA	Solid	EPA 8082A	255298
LCS 180-255160/3-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	255298

Metals

Leach Batch: 255247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-1	TSCAPAD-01-20180823	TCLP	Solid	EPA 1311	
180-81229-2	TSCAPAD-02-20180823	TCLP	Solid	EPA 1311	
180-81229-3	ULC-01-20180823	TCLP	Solid	EPA 1311	
180-81229-4	MSA-01-20180823	TCLP	Solid	EPA 1311	

Metals (Continued)

Leach Batch: 255247 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-5	CP-01-20180823	TCLP	Solid	EPA 1311	
180-81229-6	DUP-01-20180823	TCLP	Solid	EPA 1311	
LB 180-255247/1-B	Method Blank	TCLP	Solid	EPA 1311	

Prep Batch: 255413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-1	TSCAPAD-01-20180823	TCLP	Solid	3010A	255247
180-81229-3	ULC-01-20180823	TCLP	Solid	3010A	255247
180-81229-4	MSA-01-20180823	TCLP	Solid	3010A	255247
180-81229-5	CP-01-20180823	TCLP	Solid	3010A	255247
180-81229-6	DUP-01-20180823	TCLP	Solid	3010A	255247
LB 180-255247/1-B	Method Blank	TCLP	Solid	3010A	255247
MB 180-255413/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 180-255413/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 255464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-2	TSCAPAD-02-20180823	TCLP	Solid	3010A	255247
MB 180-255464/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 180-255464/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 180-255464/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Analysis Batch: 255540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-1	TSCAPAD-01-20180823	TCLP	Solid	EPA 6010C	255413
180-81229-2	TSCAPAD-02-20180823	TCLP	Solid	EPA 6010C	255464
180-81229-3	ULC-01-20180823	TCLP	Solid	EPA 6010C	255413
180-81229-4	MSA-01-20180823	TCLP	Solid	EPA 6010C	255413
180-81229-5	CP-01-20180823	TCLP	Solid	EPA 6010C	255413
180-81229-6	DUP-01-20180823	TCLP	Solid	EPA 6010C	255413
LB 180-255247/1-B	Method Blank	TCLP	Solid	EPA 6010C	255413
MB 180-255413/1-A	Method Blank	Total/NA	Solid	EPA 6010C	255413
MB 180-255464/1-A	Method Blank	Total/NA	Solid	EPA 6010C	255464
LCS 180-255413/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010C	255413
LCS 180-255464/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010C	255464
LCSD 180-255464/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6010C	255464

General Chemistry

Analysis Batch: 254990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81229-1	TSCAPAD-01-20180823	Total/NA	Solid	2540G	
180-81229-2	TSCAPAD-02-20180823	Total/NA	Solid	2540G	
180-81229-3	ULC-01-20180823	Total/NA	Solid	2540G	
180-81229-4	MSA-01-20180823	Total/NA	Solid	2540G	
180-81229-5	CP-01-20180823	Total/NA	Solid	2540G	
180-81229-6	DUP-01-20180823	Total/NA	Solid	2540G	
180-81229-1 DU	TSCAPAD-01-20180823	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: Misc 8232018
Client Contact: Aron Krasnopoler	Phone: 412 552 4788	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:			
City: Columbia, MD	TAT Requested (days): 3 days turns			
State, Zip: MD, 21044	PO #: MN0832D			
Phone: (202) 550-7724	WO #:			
Email: akrasnopoler@geosyntec.com	Project #:			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	TCLP lead	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
TSCA Pad-01-20180823	8/23/18	1500		Solid	N	N	X	X	2	
TSCA Pad-02-20180823	8/23/18	1505		Solid	N	N	X	X	2	
ULC-01-20180823	8/23/18	1510		Solid	N	N	X	X	2	
MSA-01-20180823	8/23/18	1515		Solid	N	N	X	X	2	
CP-01-20180823	8/23/18	1520		Solid	N	N	X	X	2	
DUP-01-20180823	8/23/18	—		Solid	N	N	X	X	2	
				Solid	N				X (2)	
				Solid	N					
				Solid	N					
				Solid	N					
				Solid	N					

180-81229 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ashwin Ranna	08/23/2018 1830	Geosyntec	Fedex Custom	8-24-18	TAPitt
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:25	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-81229-1

Login Number: 81229
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-81404-1
Client Project/Site: Former Sperry Remington Site-North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
9/13/2018 3:19:29 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

PA Lab ID: 02-00416

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Job ID: 180-81404-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-81404-1

Receipt
The samples were received on 8/30/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.4º C and 3.6º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: UTP-01 (180-81404-1) and UTP-02 (180-81404-2). Elevated reporting limits (RLs) are provided. Sample UTP-01 (180-81404-1) had the surrogates diluted out.

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

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

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81404-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-81404-1
Project/Site: Former Sperry Remington Site-North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81404-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-81404-1	UTP-01	Solid	08/29/18 09:15	08/30/18 09:15
180-81404-2	UTP-02	Solid	08/29/18 09:20	08/30/18 09:15
180-81404-3	UTP-03	Solid	08/29/18 09:25	08/30/18 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81404-1

Method	Method Description	Protocol	Laboratory
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81404-1

Client Sample ID: UTP-01
Date Collected: 08/29/18 09:15
Date Received: 08/30/18 09:15

Lab Sample ID: 180-81404-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			255813	09/04/18 10:27	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: UTP-01
Date Collected: 08/29/18 09:15
Date Received: 08/30/18 09:15

Lab Sample ID: 180-81404-1
Matrix: Solid
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	256125	09/06/18 17:29	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	256213	09/07/18 13:16	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	256214	09/07/18 13:17	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		100			256286	09/09/18 13:49	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: UTP-02
Date Collected: 08/29/18 09:20
Date Received: 08/30/18 09:15

Lab Sample ID: 180-81404-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			255813	09/04/18 10:27	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: UTP-02
Date Collected: 08/29/18 09:20
Date Received: 08/30/18 09:15

Lab Sample ID: 180-81404-2
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	256125	09/06/18 17:29	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	256213	09/07/18 13:16	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	256214	09/07/18 13:17	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		20			256286	09/09/18 14:09	CMR	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: UTP-03
Date Collected: 08/29/18 09:25
Date Received: 08/30/18 09:15

Lab Sample ID: 180-81404-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			255813	09/04/18 10:27	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81404-1

Client Sample ID: UTP-03
Date Collected: 08/29/18 09:25
Date Received: 08/30/18 09:15

Lab Sample ID: 180-81404-3
Matrix: Solid
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	256125	09/06/18 17:29	SAC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	256213	09/07/18 13:16	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	256214	09/07/18 13:17	CMR	TAL PIT
Total/NA	Analysis	EPA 8082A		1			256212	09/08/18 14:58	CMR	TAL PIT
	Instrument ID: CHGC8									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

Batch Type: Prep

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

CMR = Carl Reagle

Client Sample ID: UTP-01

Date Collected: 08/29/18 09:15
Date Received: 08/30/18 09:15

Lab Sample ID: 180-81404-1

Matrix: Solid
Percent Solids: 89.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1900	610	ug/Kg	☼	09/06/18 17:29	09/09/18 13:49	100
PCB-1221	ND		1900	1200	ug/Kg	☼	09/06/18 17:29	09/09/18 13:49	100
PCB-1232	ND		1900	1100	ug/Kg	☼	09/06/18 17:29	09/09/18 13:49	100
PCB-1242	ND		1900	1100	ug/Kg	☼	09/06/18 17:29	09/09/18 13:49	100
PCB-1248	**64000**		1900	1500	ug/Kg	☼	09/06/18 17:29	09/09/18 13:49	100
PCB-1254	**25000**		1900	1300	ug/Kg	☼	09/06/18 17:29	09/09/18 13:49	100
PCB-1260	**2500**		1900	530	ug/Kg	☼	09/06/18 17:29	09/09/18 13:49	100
PCB-1262	ND		1900	1300	ug/Kg	☼	09/06/18 17:29	09/09/18 13:49	100
PCB-1268	ND		1900	910	ug/Kg	☼	09/06/18 17:29	09/09/18 13:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*09/06/18 17:29*	*09/09/18 13:49*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*33 - 137*	*09/06/18 17:29*	*09/09/18 13:49*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*09/06/18 17:29*	*09/09/18 13:49*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*44 - 114*	*09/06/18 17:29*	*09/09/18 13:49*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.1	%			09/04/18 10:27	1
Percent Solids	**89.3**		0.1	0.1	%			09/04/18 10:27	1

Client Sample ID: UTP-02

Date Collected: 08/29/18 09:20
Date Received: 08/30/18 09:15

Lab Sample ID: 180-81404-2

Matrix: Solid
Percent Solids: 87.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		380	120	ug/Kg	☼	09/06/18 17:29	09/09/18 14:09	20
PCB-1221	ND		380	240	ug/Kg	☼	09/06/18 17:29	09/09/18 14:09	20
PCB-1232	ND		380	220	ug/Kg	☼	09/06/18 17:29	09/09/18 14:09	20
PCB-1242	ND		380	230	ug/Kg	☼	09/06/18 17:29	09/09/18 14:09	20
PCB-1248	**22000**		380	300	ug/Kg	☼	09/06/18 17:29	09/09/18 14:09	20
PCB-1254	**11000**		380	260	ug/Kg	☼	09/06/18 17:29	09/09/18 14:09	20
PCB-1260	**1000**		380	110	ug/Kg	☼	09/06/18 17:29	09/09/18 14:09	20
PCB-1262	ND		380	260	ug/Kg	☼	09/06/18 17:29	09/09/18 14:09	20
PCB-1268	ND		380	180	ug/Kg	☼	09/06/18 17:29	09/09/18 14:09	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*33 - 137*	*09/06/18 17:29*	*09/09/18 14:09*	*20*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*09/06/18 17:29*	*09/09/18 14:09*	*20*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*09/06/18 17:29*	*09/09/18 14:09*	*20*
Tetrachloro-m-xylene (Surr)	*67*		*44 - 114*	*09/06/18 17:29*	*09/09/18 14:09*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.8**		0.1	0.1	%			09/04/18 10:27	1
Percent Solids	**87.2**		0.1	0.1	%			09/04/18 10:27	1

Client Sample ID: UTP-03
Date Collected: 08/29/18 09:25
Date Received: 08/30/18 09:15

Lab Sample ID: 180-81404-3
Matrix: Solid
Percent Solids: 86.3

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.2	ug/Kg	☼	09/06/18 17:29	09/08/18 14:58	1
PCB-1221	ND		19	12	ug/Kg	☼	09/06/18 17:29	09/08/18 14:58	1
PCB-1232	ND		19	11	ug/Kg	☼	09/06/18 17:29	09/08/18 14:58	1
PCB-1242	ND		19	11	ug/Kg	☼	09/06/18 17:29	09/08/18 14:58	1
PCB-1248	**390**		19	15	ug/Kg	☼	09/06/18 17:29	09/08/18 14:58	1
PCB-1254	**180**		19	13	ug/Kg	☼	09/06/18 17:29	09/08/18 14:58	1
PCB-1260	**20**		19	5.4	ug/Kg	☼	09/06/18 17:29	09/08/18 14:58	1
PCB-1262	ND		19	13	ug/Kg	☼	09/06/18 17:29	09/08/18 14:58	1
PCB-1268	ND		19	9.3	ug/Kg	☼	09/06/18 17:29	09/08/18 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*33 - 137*	*09/06/18 17:29*	*09/08/18 14:58*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*09/06/18 17:29*	*09/08/18 14:58*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*09/06/18 17:29*	*09/08/18 14:58*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*44 - 114*	*09/06/18 17:29*	*09/08/18 14:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.7**		0.1	0.1	%			09/04/18 10:27	1
Percent Solids	**86.3**		0.1	0.1	%			09/04/18 10:27	1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-256125/1-C
Matrix: Solid
Analysis Batch: 256212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		09/06/18 17:29	09/08/18 10:24	1
PCB-1221	ND		17	11	ug/Kg		09/06/18 17:29	09/08/18 10:24	1
PCB-1232	ND		17	9.9	ug/Kg		09/06/18 17:29	09/08/18 10:24	1
PCB-1242	ND		17	10	ug/Kg		09/06/18 17:29	09/08/18 10:24	1
PCB-1248	ND		17	13	ug/Kg		09/06/18 17:29	09/08/18 10:24	1
PCB-1254	ND		17	11	ug/Kg		09/06/18 17:29	09/08/18 10:24	1
PCB-1260	ND		17	4.7	ug/Kg		09/06/18 17:29	09/08/18 10:24	1
PCB-1262	ND		17	12	ug/Kg		09/06/18 17:29	09/08/18 10:24	1
PCB-1268	ND		17	8.1	ug/Kg		09/06/18 17:29	09/08/18 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*09/06/18 17:29*	*09/08/18 10:24*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*33 - 137*	*09/06/18 17:29*	*09/08/18 10:24*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*44 - 114*	*09/06/18 17:29*	*09/08/18 10:24*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*44 - 114*	*09/06/18 17:29*	*09/08/18 10:24*	*1*

Lab Sample ID: LCS 180-256125/2-C
Matrix: Solid
Analysis Batch: 256212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256125

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1020		ug/Kg		76	46 - 122		
PCB-1260			1330	1010		ug/Kg		76	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*81*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*80*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*72*		*44 - 114*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site-North

TestAmerica Job ID: 180-81404-1

GC Semi VOA

Prep Batch: 256125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81404-1	UTP-01	Total/NA	Solid	3541	
180-81404-2	UTP-02	Total/NA	Solid	3541	
180-81404-3	UTP-03	Total/NA	Solid	3541	
MB 180-256125/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-256125/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 256212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81404-3	UTP-03	Total/NA	Solid	EPA 8082A	256214
MB 180-256125/1-C	Method Blank	Total/NA	Solid	EPA 8082A	256214
LCS 180-256125/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	256214

Cleanup Batch: 256213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81404-1	UTP-01	Total/NA	Solid	3665A	256125
180-81404-2	UTP-02	Total/NA	Solid	3665A	256125
180-81404-3	UTP-03	Total/NA	Solid	3665A	256125
MB 180-256125/1-C	Method Blank	Total/NA	Solid	3665A	256125
LCS 180-256125/2-C	Lab Control Sample	Total/NA	Solid	3665A	256125

Cleanup Batch: 256214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81404-1	UTP-01	Total/NA	Solid	3660B	256213
180-81404-2	UTP-02	Total/NA	Solid	3660B	256213
180-81404-3	UTP-03	Total/NA	Solid	3660B	256213
MB 180-256125/1-C	Method Blank	Total/NA	Solid	3660B	256213
LCS 180-256125/2-C	Lab Control Sample	Total/NA	Solid	3660B	256213

Analysis Batch: 256286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81404-1	UTP-01	Total/NA	Solid	EPA 8082A	256214
180-81404-2	UTP-02	Total/NA	Solid	EPA 8082A	256214

General Chemistry

Analysis Batch: 255813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-81404-1	UTP-01	Total/NA	Solid	2540G	
180-81404-2	UTP-02	Total/NA	Solid	2540G	
180-81404-3	UTP-03	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: Below TSCA Pile
Client Contact: Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 10211 Wincopin Circle, Floor 4	Due Date Requested:	Analysis Requested		
City: Columbia, MD	TAT Requested (days): Std			
State, Zip: MD, 21044	PO #: MN0832D			
Phone: (202) 550-7724	WO #:			
Email: akrasnopoler@geosyntec.com	Project #:			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site:				

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 A PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
UTP-01	08/29/18	0915	C	Solid	N	N	X		
UTP-02	08/29/18	0920	C	Solid	N	N	X		
UTP-03	08/29/18	0925	C	Solid	N	N	X		
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				
				Solid	N				

180-81404 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Ashwin Ranna	08/29/2018 1800	Geosyntec	Fedex		
2					8/30/18 915	TMA
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-81404-1

Login Number: 81404
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	