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3 March 2017

Mr. Timothy Schneider
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-9519

Subject: **Agency Review Draft**
Former Scott Technologies Site(#808049)
Site Characterization Work Plan Addendum #2
1051 South Main Street, City of Elmira, Chemung County, NY

Dear Mr. Schneider:

On behalf of Unisys Corporation (Unisys), Geosyntec Consultants, Inc. and its New York engineering affiliate, Beech and Bonaparte Engineering, P.C. (collectively, Geosyntec) are submitting this Addendum #2 to the Site Characterization Work Plan (SC Work Plan) for the Former Scott Technologies Site (Site #808049) (Site) in Elmira, New York. Unisys has been conducting Site Characterization (SC) activities at the Site in accordance with an Order on Consent and Administrative Settlement (Order) with New York State Department of Environmental Conservation (NYSDEC or agency) dated 16 July 2014, the SC Work Plan dated 5 December 2014 and subsequent Addendum #1 dated 1 August 2016. The objective of this SC Work Plan addendum is to conduct delineation of constituents of potential concern (COPCs) in soils that addresses data gaps following implementation of Addendum #1.

BACKGROUND

The Site is located at 1051 South Main Street in Elmira, Chemung County, New York (see **Figure 1**) and is currently occupied by Southern Tier Commerce Center (STCC). A Preliminary Site Assessment (PSA) for the entire Former Sperry Remington Site was completed in 1988 on behalf of Unisys and submitted to NYSDEC (Dames & Moore, 1988). The Site has been the subject of additional environmental investigations between 1992 and 2012. In June 2013, NYSDEC identified potential areas of concern (PAOCs) at the Site based on new information related to historical use of the property and previous environmental investigations results.

Scott Technologies Inc. (STI), a former owner of the Site, entered into a Voluntary Cleanup Agreement with NYSDEC in January 1999 to conduct investigation and remedial activities at the Site. Prior actions included the removal of four (4) registered underground storage tanks (USTs) in 1993 (Versar, 1993) and voluntary investigations. STI conducted a voluntary remedial action between October 1999 and March 2000 (URS, 2000) that included removal and disposal of low voltage PCB capacitors, cleaning or decommissioning of tanks/vessels, concrete clarification chambers or above ground storage tanks (ASTs), and excavation of polycyclic aromatic hydrocarbons (PAHs) in soil. PAHs in soils identified as exceeding

the NYSDEC-approved cleanup goal total PAH concentration of less than or equal to 100 milligrams per kilogram (mg/kg) were excavated to depth of up to three (3) feet in areas north and east of Building 88 as shown on **Figure 2**. The total excavated area was approximately 0.75 acres. Supplemental investigation of the holding pond on the north side of the Site was conducted in 2002 (URS, 2002). Remedial activities for the holding pond were deemed unnecessary by NYSDEC due to a determination of low risk to wildlife and human health as documented in the 2004 NYSDEC fact sheet for the voluntary cleanup (NYSDEC, 2004). Holding pond sediments were identified as a PAOC by NYSDEC in June 2013.

STI conducted additional voluntary remedial action in the former recreation area (FRA) in October 2004 following pre-characterization of soils in March 2004. The constituents of potential concern (COPCs) and approved clean up goals by NYSDEC for the FRA relevant to this Site Characterization were lead (1,000 mg/kg) and total PAHs (100 mg/kg). Shallow soils were excavated to depths of two (2) to eight (8) inches as shown on **Figure 2**. Approximately eighty-six (86) tons of hazardous fill material and one hundred and four (104) tons of non-hazardous fill material were excavated and transported off-Site for disposal. Deed restrictions were filed with Chemung County Clerk's Office in July 2005 that limited potential future use of the Site to commercial or industrial uses with the exception of day care facilities and also required maintenance of the vegetative cover. In August 2005, STI submitted a Site Management Plan (SMP) for the FRA that described procedures for excavation and maintenance of the existing vegetative cover, fencing and signage. The SMP was approved by NYSDEC in correspondence dated 13 October 2005. Voluntary cleanup activities at the Site were declared by NYSDEC to have been satisfactorily completed in October 2006.

PREVIOUS SITE CHARACTERIZATION ACTIVITIES

Previous Site Characterization activities included inspection of the former combined industrial sewer, soil investigation, and groundwater investigation. Surface (zero to two [0-2] inches below ground surface [bgs]) and shallow subsurface (two to twenty-four [2-24] inches bgs) soil samples were collected to characterize PAOCs not addressed by previous investigations and voluntary actions. Soil analytical results were compared to NYSDEC-approved cleanup goals for previous voluntary remedial actions at the STCC facility and the FRA. Previously approved cleanup goals for the voluntary remedial actions conducted by STI should be considered applicable and relevant for consistency with prior actions at the Site. Those criteria are total PAH[1] concentrations equal to or less than one hundred (100) mg/kg for the STCC facility and the FRA and lead concentrations equal to or less than one thousand (1,000) mg/kg for the FRA. For COPCs that are the focus of this Site Characterization where cleanup goals were not previously established, screening criteria are Soil Cleanup Objectives (SCOs) presented in 6 NYCRR Subpart 375 as appropriate based on current and potential land use. The current land use of the STCC facility and surrounding areas

[1] Total PAH concentrations: sum of naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, debenzo(a,h)anthracene, and benzo(g,h,i)perylene based on PAHs reported for confirmatory samples collected during the voluntary remedial action conducted by STI in 1999-2000.

is considered to be industrial. The area outside the fenced portion of the FRA to the southwest is adjacent to residential properties.

PCB, PAH and metal COPCs were detected in soils above screening criteria, as noted above, were found in the area south of Building 88 and the FRA. SC Work Plan Addendum #1 was submitted on 1 August 2016 with a scope of work for additional soil delineation south of Building 88 and in the FRA and investigation of holding pond sediments. Field activities for SC Work Plan Addendum #1 were conducted between 7 September and 16 September 2016. Twelve (12) soil boring were advanced using direct push technology (DPT) to a depth of two (2) feet below ground surface (bgs) south of Building 88. Three (3) soil borings were advanced using hand augering methods outside of the FRA. Surface soil samples were collected from the zero (0) to two (2) inches (0.17 feet) bgs interval. Shallow subsurface soil samples were collected from the interval 0.17 to two (2) feet bgs. Soil samples were analyzed for PCBs, PAHs, metals, and hexavalent chromium in accordance with SC Work Plan Addendum #1. Validated analytical results are presented in **Tables 1** and **2** for soil samples collected south of Building 88 and outside of the fenced area of the FRA, respectively. Analytical reports and data validation reports are included in **Attachments 1** and **2**, respectively. The extent of COPC exceedances in surface and shallow subsurface soils are presented in **Figures 3A/B, 4A/B** and **5A/B**, respectively, for PCBs, PAHs and metals. Concentrations of total PCBs in surface soil south of Building 88 exceeded the Industrial SCO of twenty-five (25) mg/kg as shown in **Figure 3A.** Concentrations of total PAHs in surface and shallow subsurface soils south of Building 88 exceeded the previously approved cleanup goal of one hundred (100) mg/kg as shown in **Figures 4A** and **4B**, respectively**.** Concentrations of metals, including hexavalent chromium, in surface and shallow subsurface soils did not exceed Residential SCOs as shown in **Figures 5A** and **5B**, respectively, bounding the previously detected exceedance of metal COPCs in surface soil.

Sediment samples were collected from four (4) locations in the holding pond, shown on **Figure 6**, to confirm historic detections in samples collected by STI in 2002[2]. Sediment samples were analyzed for PCBs, PAHs, and metals in accordance with SC Work Plan Addendum #1. Validated analytical results are presented in **Table 3** with historic detections. Detections of PCBs, PAHs, and metals exceeded NYSDEC Class C sediment guidance values (SGVs) but are consistent with previous results that resulted in a no further action determination by NYSDEC. This is documented in the 2004 NYSDEC fact sheet for the voluntary cleanup where no further action was planned for the holding pond at that time due to low risk to wildlife and human health.

PROPOSED SCOPE OF WORK

Soil Investigation

Additional delineation of COPCs in soils is recommended in the area south of Building 88 to address the data gaps in horizontal delineation following implementation of SC Work Plan Addendum #1. Additional

[2] URS Consultants, Inc., 2002. Supplemental Investigation of the Holding Pond, American LaFrance Voluntary Cleanup. December.

delineation outside of the fenced area of the FRA is not necessary since previously detected exceedances of metal COPCs have been bounded in that area. The proposed scope for soil investigation will include:

- Additional delineation of PCBs in surface soil in vicinity of STI-B37 which had total PCB concentration in surface soil above the Industrial SCO of twenty-five (25) mg/kg as shown in **Figure 3A**;

- Additional delineation of PAHs in surface soil in the vicinity of STI-B38, STI-B39, STI-B40 and STI-B41 which had total PAH concentrations greater than one hundred (100) ppm as shown in **Figure 4A**;

- Additional delineation of PAHs in surface soil in the vicinity of STI-B42 and STI-B45 which had total PAH concentrations greater than one hundred (100) ppm as shown in **Figure 4A**; and

- Additional delineation of PAHs in shallow subsurface soil in the vicinity of STI-B41 which had total PAH concentrations greater than one hundred (100) ppm as shown in **Figure 4B**.

Proposed primary soil sample locations are presented on **Table 4** for each investigation area with sampling intervals. Soil samples will be collected to address identified data gaps in horizontal and vertical delineation. Soil boring locations are shown on **Figure 7** with boring depths. Soil borings will be advanced using direct push technology (DPT) or hand augering (where appropriate or necessary) in accordance with the SC Work Plan's Quality Assurance Project Plan/Field Sampling Plan (QAPP/FSP). Surface soil samples will be collected from the soil interval zero (0) to two (2) inches bgs. Shallow subsurface soil samples will be collected from the soil interval 0.17 to two (2) feet bgs. Soil samples will be submitted to a fixed laboratory for COPC analyses with a standard ten-day (10-day) turnaround time (TAT) in accordance with the QAPP/FSP.

QUALITY ASSURANCE

Sample handling, including sample custody and sample control, will be conducted in accordance with the QAPP/FSP. Quality control samples, including field duplicates, matrix spike/matrix spike duplicates, trip blanks, and equipment blanks, will be collected at the frequency specified in the QAPP/FSP.

HEALTH AND SAFETY

A Site-specific Health and Safety Plan (HASP) was presented in the SC Work Plan. Each contractor will be required to prepare a project-specific HASP in accordance with DER-10 to be followed during implementation of the field program.

IDM MANAGEMENT

Solid investigation-derived material (IDM) that will be generated may include disposable personal protection equipment (PPE), disposable sampling equipment, and excavated material. Liquid IDM that will

be generated will consist of water generated during decontamination of field equipment. Solid and liquid IDM will be stored in on-site fifty-five (55) gallon drums for waste characterization (if necessary) and appropriate off-site disposal in accordance with the QAPP/FSP.

SCHEDULE AND DELIVERABLES

Unisys will promptly commence the implementation of this SC Work Plan Addendum upon receipt of written approval by NYSDEC, weather permitting and pending access granted by the property owner. Completion of the work will be dependent on weather conditions and access. Once initiated, Unisys anticipates that soil and sediment sample collection will take approximately one (1) day to complete. Samples will be analyzed on ten-day (10-day) TAT and will be reviewed upon receipt.

Unisys will provide NYSDEC with unvalidated laboratory analytical reports in monthly progress reports following receipt from the laboratory. Summary tables and maps of unvalidated soil and groundwater results will be submitted with the monthly progress following receipt of all analytical data. Data validation will begin upon receipt of all analytical data packages.

Validated soil and sediment analytical results will be submitted with the monthly progress following completion of data validation.

An updated schedule for Site Characterization activities is provided as **Attachment 1**.

CLOSING

Geosyntec appreciates the opportunity to submit this work plan to the NYSDEC and NYSDOH. If you have any questions, please contact Mr. Kevin Krueger of Unisys at (651) 687-2210.

Sincerely,

Geosyntec Consultants, Inc.

Paul Brookner, P.G.
Principal/Project Director
Geosyntec Consultants, Inc.

Aron Krasnopoler, Ph.D., P.E.
Project Engineer/Project Manager
Beech and Bonaparte Engineering P.C.

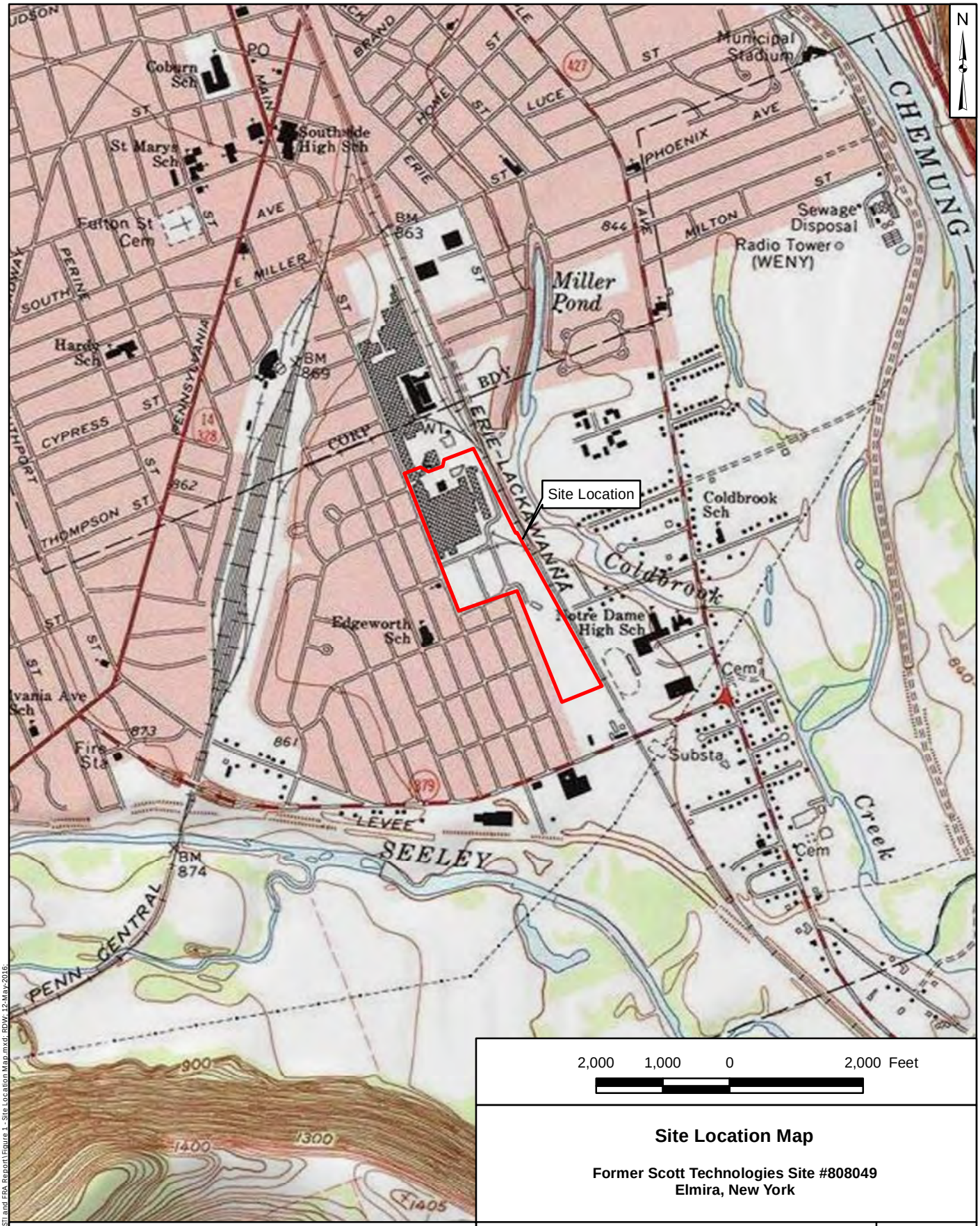
Attachments: Figure 1 – Site Location Map
Figure 2 – Site Map
Figure 3A – Total PCBs in Surface Soils (0-0.17 ft bgs)
Figure 3B – Total PCBs in Shallow Subsurface Soils (0-2 ft bgs)
Figure 4A – Extent of Screening Criteria Exceedances for PAHs in Surface Soil (0-0.17 ft bgs)

Figure 4B – Extent of Screening Criteria Exceedances
for PAHs in in Shallow Subsurface Soil (0-2 ft bgs)
Figure 5 - Proposed Soil Boring Locations
Table 1 – Summary of Analytical Result for Soils South of Building 88
Table 2 – Summary of Analytical Result for Soils Outside of FRA Fence
Table 3 – Summary of Analytical Result for Holding Pond Sediments
Table 4 – Proposed Soil Sampling
Attachment 1 – Laboratory Analytical Reports
Attachment 2 – Data Validation Reports
Attachment 3 – Project Schedule

Copies to:

Bernette Schilling, NYSDEC	Kevin Murphy, Wladis Law Firm
Benjamin Conlon, NYSDEC	Kevin Krueger, Unisys
Dawn Hettrick, NYSDOH	David Noble, Unisys
Michael Cruden, NYSDEC	John H. Paul, Beveridge & Diamond
Adam Meinstein, STCC	Michael G. Murphy, Beveridge & Diamond

FIGURES



2,000 1,000 0 2,000 Feet

Site Location Map

Former Scott Technologies Site #808049
Elmira, New York

Notes:
Topographic map accessed via ArcGIS Online and provided by National Geographic Society and i-cubed on 12 May 2016. Elmira, New York Quadrangle (1971, photorevised 1976) is shown.

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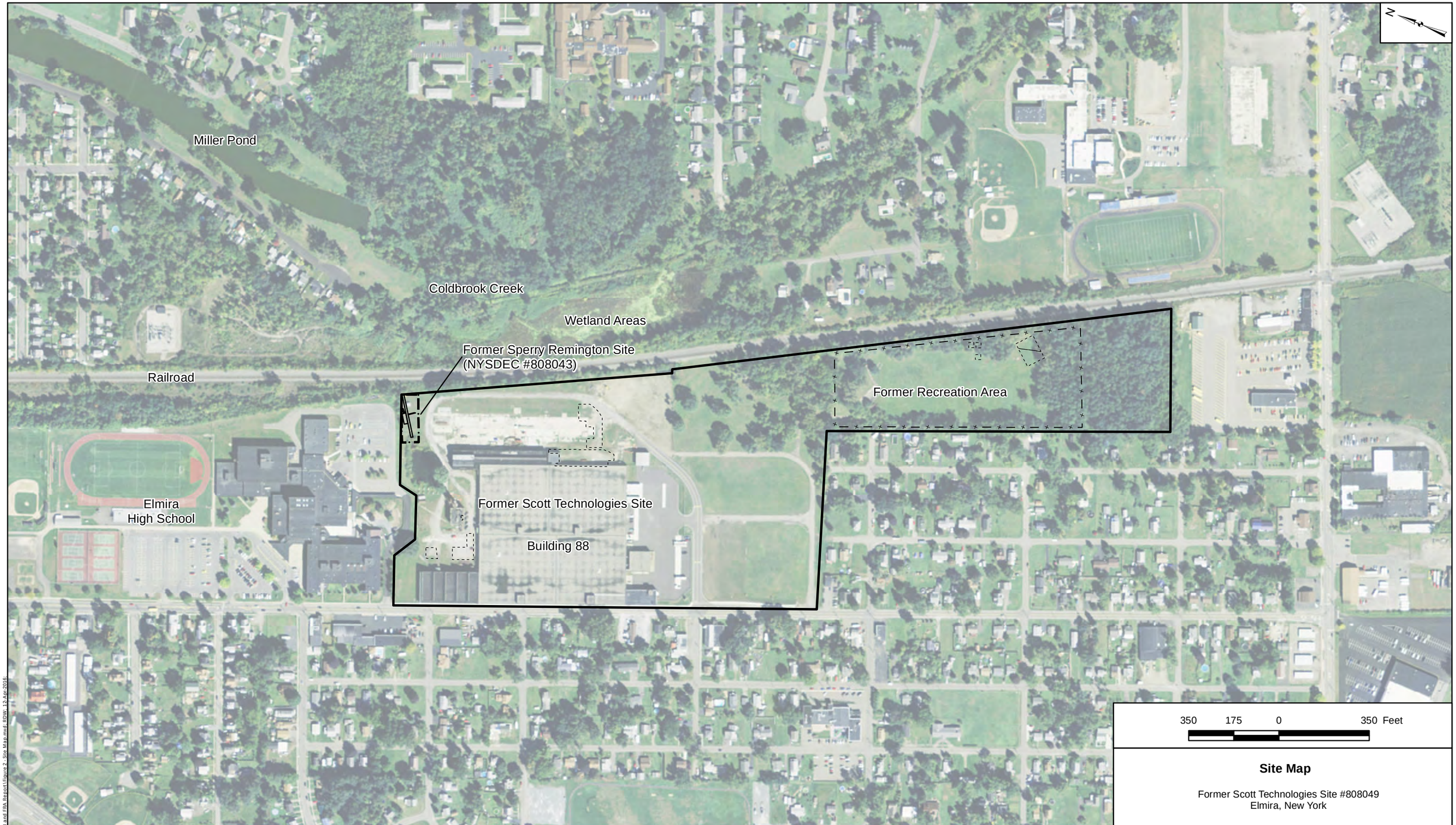
Figure 1

P:\GIS\Elmira - MN08321\Mxds\SI and FRA Report\Figure 1 - Site Location Map.mxd; ROW; 12-May-2016;



Site Map

Former Scott Technologies Site #808049
Elmira, New York

Legend

- Site Boundary - Former Sperry Remington
- Approximate Areas of Excavation
- Site Boundary - STCC
- FRA Fence

Notes
Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 12 April 2016. Image is dated 2 June 2010.
FRA - Former Recreation Are

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Figure **2**

P:\GIS\Elmira - MW08224\Maps\SI and FBA Report\Figure 2- Site Map.mxd RDW, 12-Apr-2016

N

Former Recreation Area

Building 88

STI-B34
0.99 ppm
1.21 ppm
STI-B36
STI-B35
1.22 ppm
STI-B37
33.1 ppm

Legend

STCC Facility (Industrial)

- Non-Detected
- Does Not Exceed Industrial SCO (25 mg/kg)
- Exceeds Industrial SCO(25 mg/kg)

FRA (Residential)

- Non-Detect
- Does Not Exceed Residential SCO (1mg/kg)
- Proposed Soil Sample

- Site Boundary
- FRA Fence

Notes
Screening criteria for PCBs are Soil Cleanup Objective (SCOs) presented in 6 NYCRR Subpart 375 as appropriate based on current and potential land use.
Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 18 January 2017. Image is dated 2 June 2010.
PCBs - Polychlorinated Biphenyls
STCC - Southern Tier Commerce Center
FRA - Former Recreation Area
ft bgs - feet below ground surface

200 100 0 200 Feet

Total PCBs in Surface Soils (0-0.17 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

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Figure **3A**

I:\Minneapolis\Data\GIS\Elmira - AM0892\Maps\SI and FRA Report\Addendum 2\Figure 3 - PCB SS samples.mxd RDW 18-Jan-2017

N

Former Recreation Area

STI-B34

STI-B36

STI-B37

STI-B35

Building 88

Legend

STCC Facility (Industrial)

Non-Detected

Does Not Exceed Industrial SCO (25 mg/kg)

FRA (Residential)

Concentrat

Non-Detect

Site Boundary

FRA Fence

200 100 0 200 Feet

Notes
Screening criteria for PCBs are Soil Cleanup Objective (SCOs) presented in 6 NYCRR Subpart 375 as appropriate based on current and potential land use.
Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 18 January 2017. Image is dated 2 June 2010.
PCBs - Polychlorinated Biphenyls
STCC - Southern Tier Commerce Center
FRA - Former Recreation Area
ft bgs - feet below ground surface

Total PCBs in Shallow Subsurface Soils (0-2 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

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Figure **3B**

I:\Minneapolis\Data\GIS\Elmira - AM0282\Maps\ISI and FRA Report Addendum 2\Figure 3b - PCB 0-2 ft bgs Samples mod KPW 18-Jan-2017.

Legend

Total PAHs Concentration

- Non-Detect
- 0-100 mg/kg
- > 100mg/kg

Proposed Soil Sample

Site Boundary

FRA Fence

200 100 0 200 Feet

Notes and Disclaimer

Screening critieria for the STCC facility and the FRA are the previously approved cleanup goals for voluntary remedial actions (total PAHs less than or equal to 100 mg/kg). See text for details.

Areas of concern georeferenced from PDF drawings provided by New York State Department of Environmental Conservation (NYSDEC). Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided.

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 18 January 2017. Image is dated 2 June 2010.

STCC - Southern Tier Commerce Center FRA - Former Recreation Area PAHs - polycyclic aromatic hydrocarbons ft bgs - feet below ground surface

Extent of Screening Criteria Exceedances for PAHs in Surface Soil (0-0.17 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

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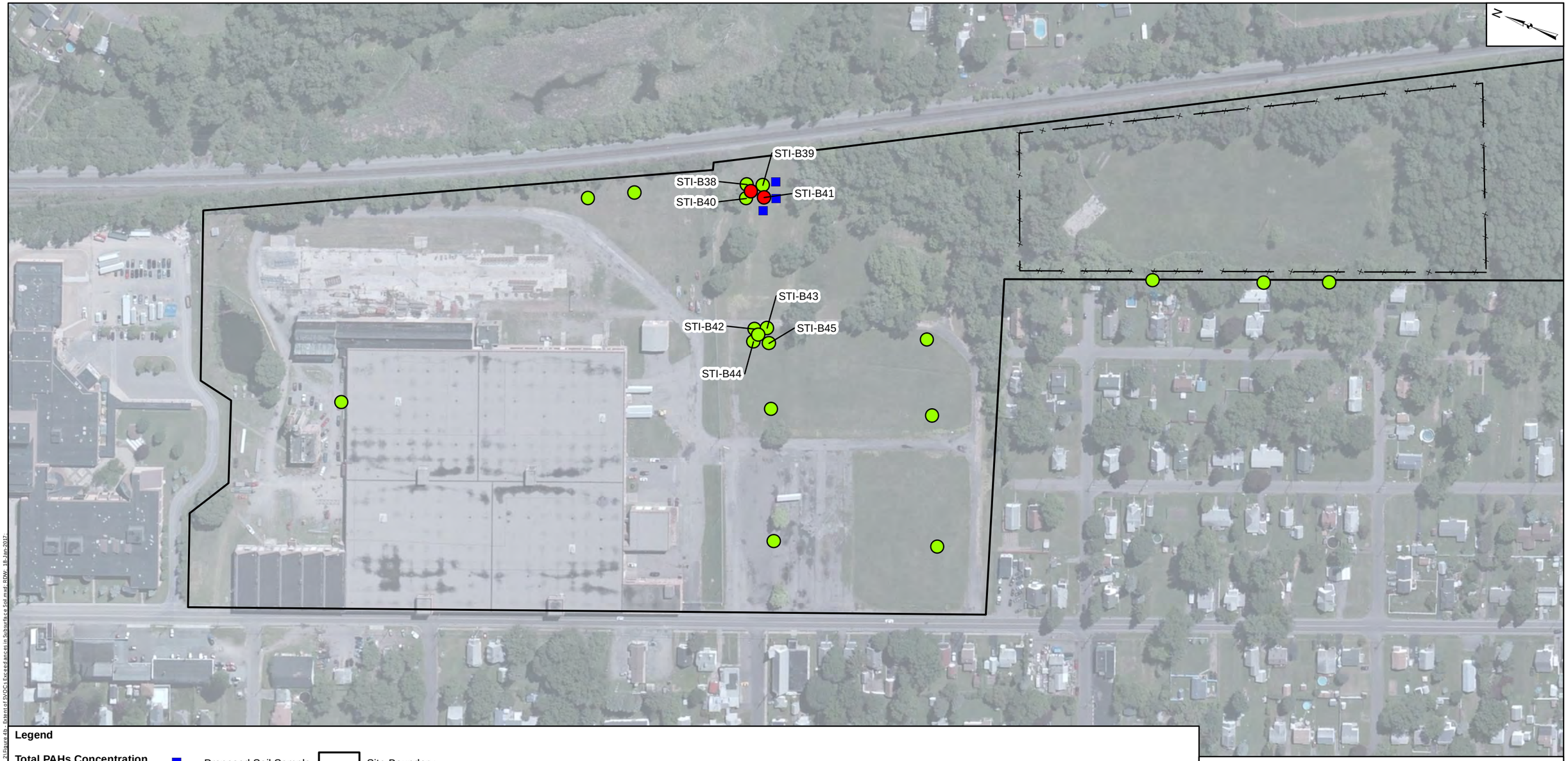
Figure **4A**

J:\Minneapolis\Data\GIS\Elmira_MN0802\Maps\ST and FRA Report\Addendum 2\Figure 4a_Extent of SVOCs Exceedances in Surface Soil.mxd, RDW, 18-Jan-2017.



Legend

Total PAHs Concentration

- Non-Detect
- 0-100 mg/kg
- > 100mg/kg

Proposed Soil Sample

Site Boundary

FRA Fence

200 100 0 200 Feet

Extent of Screening Criteria Exceedances for PAHs in in Shallow Subsurface Soil (0-2 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

Notes and Disclaimer

Screening critieria for the STCC facility and the FRA are the previously approved cleanup goals for voluntary remedial actions (total PAHs less than or equal to 100 mg/kg). See text for details.
Areas of concern georeferenced from PDF drawings provided by New York State Department of Environmental Conservation (NYSDEC). Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided.

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 18 January 2017. Image is dated 2 June 2010.
STCC - Southern Tier Commerce Center FRA - Former Recreation Area PAHs - polycyclic aromatic hydrocarbons ft bgs - feet below ground surface

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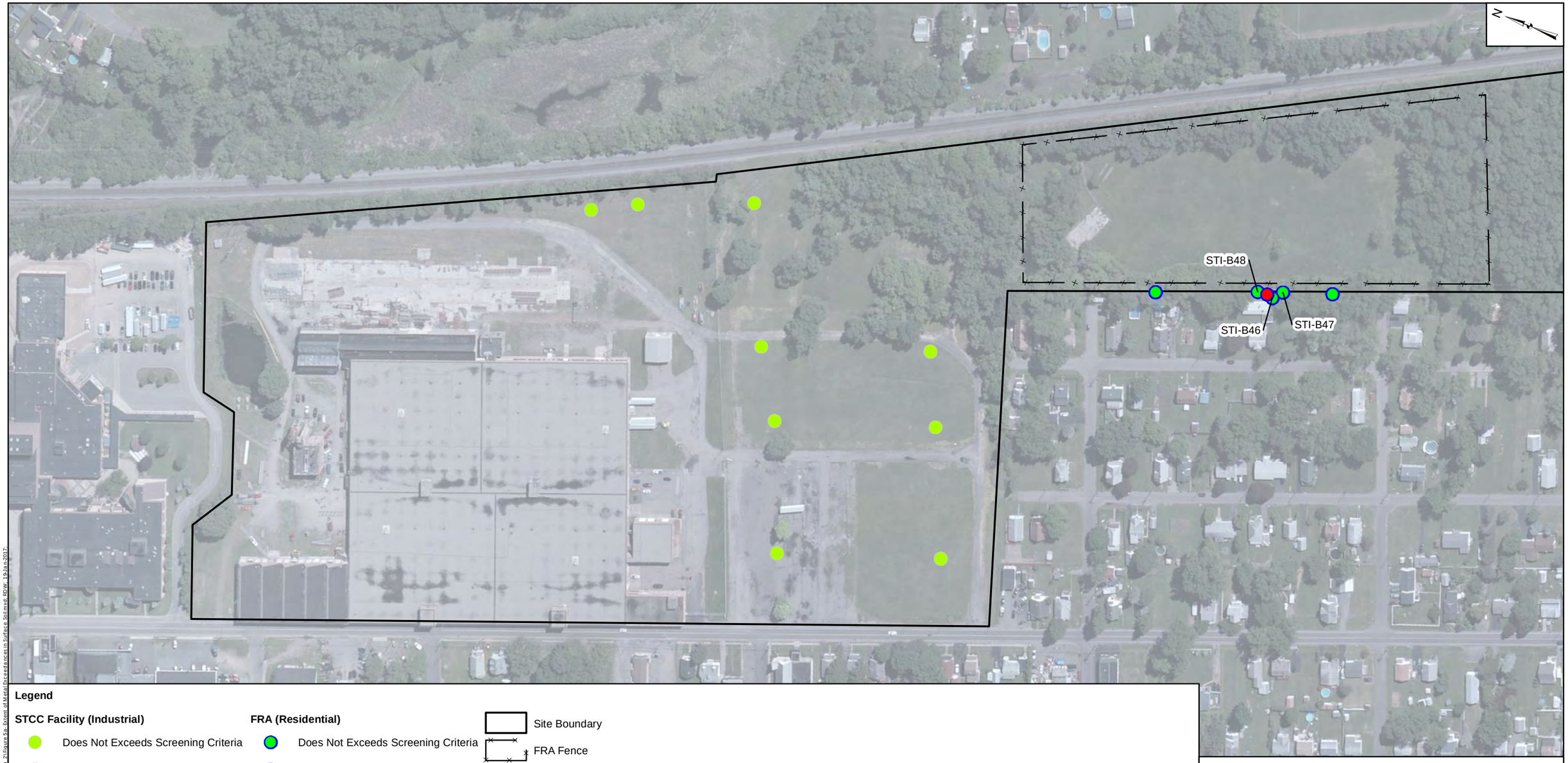
Figure **4B**

J:\Manuscripts\Data\GIS\Elmira - MW0924\Maps\ST and FRA Report\Addendum 2\Figure 4b - Extent of SVOCs Exceedances in Subsurface Soil.mxd KRW 18-Jan-2017



Legend

STCC Facility (Industrial)

- Does Not Exceeds Screening Criteria
- Exceeds Screening Criteria

FRA (Residential)

- Does Not Exceeds Screening Criteria
- Exceeds Screening Criteria

- Site Boundary
- FRA Fence

200 100 0 200 Feet

Extent ofScreening Criteria Exceedances for Metals in Surface Soil (0-0.17 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

Notes and Disclaimer

Screening criteria for metals for the STCC facility are Industrial Soil Cleanup Objective (SCOs) presented in 6 NYCRR Subpart 375. Screening criteria the FRA are previously approved cleanup goals for lead (1,000 mg/kg) and Resdential SCOs for other metal COPCs.

Areas of concern georeferenced from PDF drawings provided by New York State Department of Environmental Conservation (NYSDEC). Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided.

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 19 January 2017. Image is dated 2 June 2010.

STCC - Southern Tier Commerce Center FRA - Former Recreation Area ft bgs - feet below ground surface

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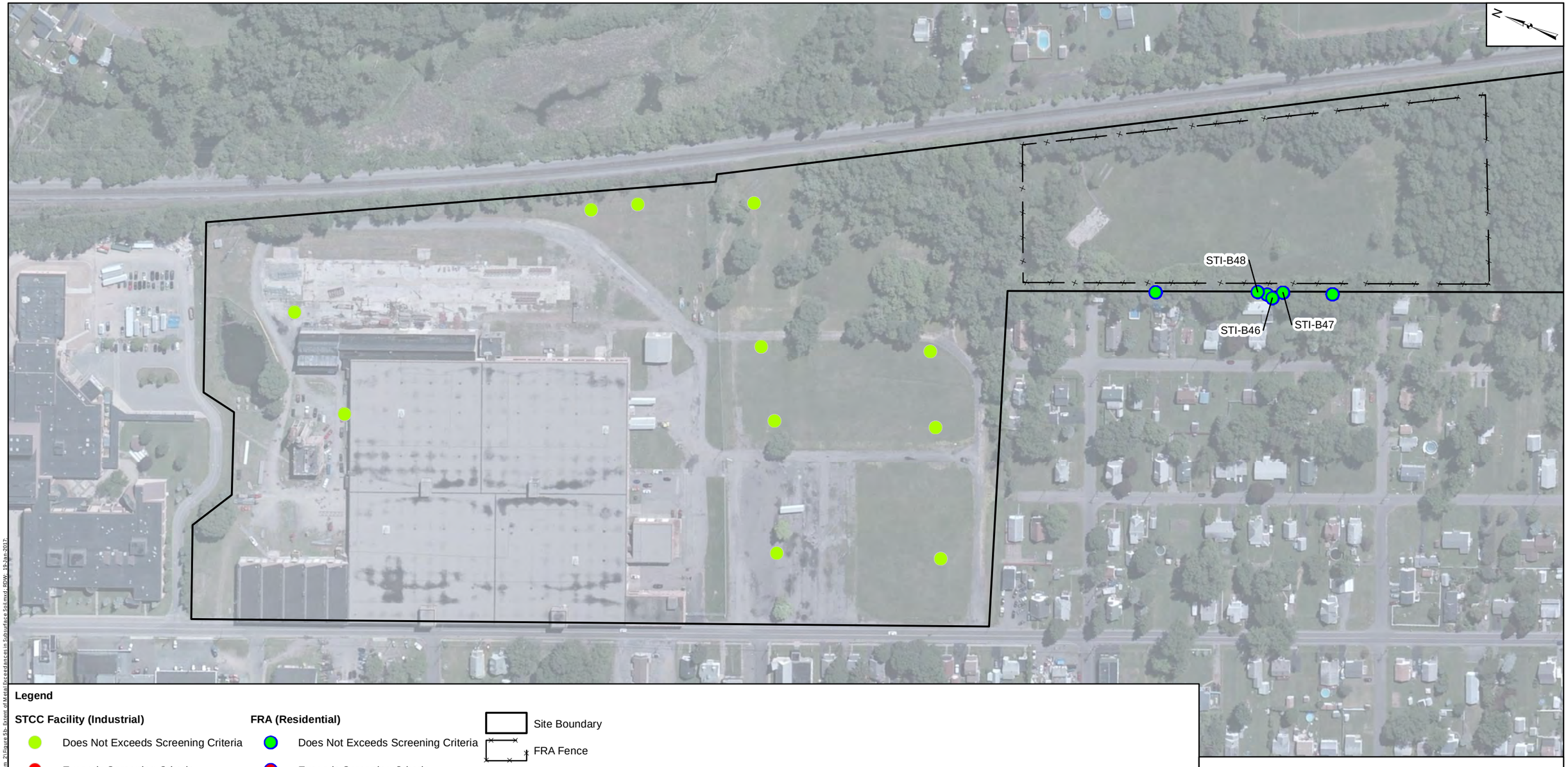
Figure **5A**

J:\Minneapolis\Data\GIS\Elmira_NM0892\Maps\SI and FRA Report Addendum 2\Figure 5a- Extent of Metal Exceedances in Surface Soil.mxd, RDW, 19-Jan-2017



Legend

STCC Facility (Industrial)

- Does Not Exceeds Screening Criteria
- Exceeds Screening Criteria

FRA (Residential)

- Does Not Exceeds Screening Criteria
- Exceeds Screening Criteria

- Site Boundary
- FRA Fence

200 100 0 200 Feet

Notes and Disclaimer

Screening criteria for metals for the STCC facility are Industrial Soil Cleanup Objective (SCOs) presented in 6 NYCRR Subpart 375. Screening criteria the FRA are previously approved cleanup goals for lead (1,000 mg/kg) and Resdential SCOs for other metal COPCs.

Areas of concern georeferenced from PDF drawings provided by New York State Department of Environmental Conservation (NYSDEC). Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided.

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 19 January 2017. Image is dated 2 June 2010.

STCC - Southern Tier Commerce Center FRA - Former Recreation Area ft bgs - feet below ground surface

Extent ofScreening Criteria Exceedances for Metals in Shallow Subsurface Soil (0-2 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

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Figure **5B**

J:\Minneapolis\Data\GIS\Elmira - AM00824\Maps\ISI and FRA Report Addendum 2\Figure 5b- Extent of Metal Exceedances in Subsurface Soil.mxd RDW 19-Jan-2017

Legend

- Historic Sediment Sampling Location
- 2016 Sediment Sampling Location

30 15 0 30 Feet

Notes
Historic sample locations georeferenced from PDF drawings in the December 2002 document "Supplemental Investigation of the Holding Pond, American LaFrance Voluntary Cleanup," perpared by URS Corporation . Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided.

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 20 January 2017. Image is dated 2 June 2010.

Proposed Holding Pond Sediment Sampling

Former Scott Technologies Site #808049
Elmira, New York

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Figure **6**

J:\Minneapolis\Data\GIS\Elmira - AN0892\Maps\ISTI and FSA Report Addendum 2\Figure 6- Holding Pond.mxd, RDW, 20-Jan-2017

STI-B61
STI-B60
STI-B62
STI-B59
STI-B63
STI-B58
STI-B56
STI-B57
STI-B54
STI-B55
STI-B52
STI-B53
STI-B51
STI-B49
STI-B50
N
100 50 0 100 Feet
Legend
Proposed Soil Borings
Surface (0.17 ft bgs)
2 ft bgs
Site Boundary
FRA Fence
Notes
Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 19 January 2017. Image is dated 2 June 2010.
STCC - Southern Tier Commerce Center
FRA - Former Recreation Area
ft bgs - feet below ground surface
Proposed Soil Boring Locations
Former Scott Technologies Site #808049
Elmira, New York
Geosyntec consultants
Columbia, Maryland
January 2017
Figure 7
T:\Minneapolis\Data\GIS\Elmira - MN0892\Maps\ISTI and FRA Report\Addendum_2\Figure 7 - Proposed Soil Boring Locations.mxd, RDW, 19-Jan-2017.

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULT FOR SOILS SOUTH OF BUILDING 88

Former Scott Technologies Site
Elmira, New York

					Location	STI-B34	STI-B35	STI-B36	STI-B37	STI-B34	STI-B35	STI-B36	STI-B37	STI-B38	STI-B39	STI-B40	STI-B41	STI-B42	STI-B43	STI-B45	STI-B38	STI-B39	STI-B40	STI-B41	STI-B42	STI-B43	STI-B44	STI-B45
					Sample Depth Range	0-0.17	0-0.17	0-0.17	0-0.17	0.17-2	0.17-2	0.17-2	0.17-2	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	9/16/2016	0.17-2	0.17-2	0.17-2	0.17-2	0.17-2	0.17-2	0.17-2	0.17-2
					Sample Date	9/16/2016	9/16/2016	9/16/2016	9/16/2016	9/16/2016	9/16/2016	9/16/2016	9/16/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016		9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/16/2016
				Screening Criteria																								
Analysis	Analyte	Units	EQL	Industrial SCO	STI VCP																							
PCBs	Total PCBs	mg/kg		25		0.99	1.22	1.21	33.1	0.0378	0.345	0.134	0.994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arochlor 1016	mg/kg	0.0079			<0.0083U	<0.0084U	<0.0082U	<0.081U	<0.0079U	<0.0085U	<0.0083U	<0.008U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arochlor 1221	mg/kg	0.013			<0.013U	<0.013U	<0.013U	<0.13U	<0.013U	<0.013U	<0.013U	<0.013U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arochlor 1232	mg/kg	0.0043			<0.0045U	<0.0046U	<0.0045U	<0.044U	<0.0043U	<0.0047U	<0.0045U	<0.0044U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arochlor 1242	mg/kg	0.0064			<0.0067U	<0.0067U	<0.0066U	<0.065U	<0.0064U	<0.0069U	<0.0067U	<0.0064U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arochlor 1248	mg/kg	0.017			0.46J	0.69J	0.69J	22J	0.018J	0.21J	0.077J	0.64J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arochlor 1254	mg/kg	0.017			0.36J	0.38J	0.37J	7.6J	0.013J	0.099J	0.041J	0.26J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arochlor 1260	mg/kg	0.017			0.17J	0.15J	0.15J	3.5J	0.0068J	0.036J	0.016J	0.094J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arochlor 1268	mg/kg	0.0032			<0.0034U	<0.0034U	<0.0033U	<0.033U	<0.0032U	<0.0035U	<0.0034U	<0.0032U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arochlor 1262	mg/kg	0.0054			<0.0056U	<0.0057U	<0.0055U	<0.055U	<0.0054U	<0.0058U	<0.0056U	<0.0054U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs	Total PAHs	mg/kg			100	-	-	-	-	-	-	-	-	1,340 - 1,592	335.4	201.8	977.3	130.4	77.88	150	6.132	1.254	17.73	138.2	9.015	11.75	15.9	12.78
	Acenaphthene	mg/kg	0.069			-	-	-	-	-	-	-	-	47 - 54J	7.7J	5.4	28J	0.47J	0.22J	0.47J	0.16	0.017J	0.58	4.5J	0.025J	0.037J	0.071J	0.028J
	Acenaphthylene	mg/kg	0.069			-	-	-	-	-	-	-	-	1.7 - 2J	2.5J	0.37J	1.3J	6.1J	3.2J	4.4	0.021J	0.019J	0.02J	0.23J	0.52J	0.72J	0.65J	0.49
	Anthracene	mg/kg	0.069			-	-	-	-	-	-	-	-	82 - 90J	16J	11	47J	3.7J	2.1J	3	0.32	0.047J	0.97	7.4J	0.27J	0.35J	0.39J	0.29
	Benz(a)anthracene	mg/kg	0.069			-	-	-	-	-	-	-	-	110J	28J	17	82J	10J	6.5J	12	0.51	0.098J	1.5	11J	0.7J	1J	1.3J	1
	Benzo(a) pyrene	mg/kg	0.069			-	-	-	-	-	-	-	-	80 - 91J	22J	13	63J	12J	5.6J	14	0.34	0.073J	1	8.5J	0.76J	1.2J	1.4J	1.2
	Benzo(b)fluoranthene	mg/kg	0.069			-	-	-	-	-	-	-	-	83 - 99J	29J	17	79J	18J	8.6J	16	0.46	0.1J	1.4	12J	1.2J	1.5J	1.9J	1.4
	Benzo(g,h,i)perylene	mg/kg	0.069			-	-	-	-	-	-	-	-	65 - 67J	12J	6.5	38J	10J	5J	16	0.19	0.059J	0.55	4.9J	0.74J	0.96J	1.2J	1.4
	Benzo(k)fluoranthene	mg/kg	0.069			-	-	-	-	-	-	-	-	37 - 46J	9.9J	6.4	36J	6J	3.3J	8.2	0.24	0.046J	0.52	3.4J	0.33J	0.56J	0.78J	0.53
	Chrysene	mg/kg	0.069			-	-	-	-	-	-	-	-	97 - 100J	23J	14	67J	12J	7.3J	15	0.46	0.12J	1.1	8.8J	0.79J	1.1J	1.5J	1.3
	Dibenz(a,h)anthracene	mg/kg	0.069			-	-	-	-	-	-	-	-	17 - 18J	4.4J	2.4	12J	2.6J	1.3J	4	0.081	0.02J	0.18	1.7J	0.18J	0.25J	0.29J	0.33
	Dibenzofuran	mg/kg	0.034			-	-	-	-	-	-	-	-	36 - 42J	5.1J	3.6	17J	<0.34UJ	<0.33UJ	0.35J	0.15J	0.041J	0.4	3J	<0.034UJ	<0.034UJ	0.046J	<0.035U
	Fluoranthene	mg/kg	0.069			-	-	-	-	-	-	-	-	220 - 280E	54J	33	160J	15J	10J	17	0.96	0.15J	2.8	23J	0.99J	1.2J	1.9J	1.5
	Fluorene	mg/kg	0.069			-	-	-	-	-	-	-	-	46 - 56J	8.3J	5.2	25J	0.72J	0.52J	0.73	0.16	0.018J	0.56	4.1J	0.055J	0.065J	0.093J	0.044J
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.069			-	-	-	-	-	-	-	-	60 - 61J	12J	6.7	36J	8.5J	4.1J	12	0.19	0.052J	0.57	4.8J	0.61J	0.77J	0.96J	1
	Naphthalene	mg/kg	0.069			-	-	-	-	-	-	-	-	70 - 83J	6.3J	3.2	21J	0.8J	0.36J	0.62J	0.16	0.092J	0.46	4.4J	0.11J	0.1J	0.069J	0.057J
	Phenanthrene	mg/kg	0.069			-	-	-	-	-	-	-	-	220 - 320E	59J	37	170J	6J	7J	8	1.2	0.19J	3.5	26J	0.46J	0.37J	0.97J	0.74
	Pyrene	mg/kg	0.069			-	-	-	-	-	-	-	-	150 - 170E	49J	29	140J	19J	13J	19	0.84	0.17J	2.6	18J	1.3J	1.6J	2.5J	1.5

Notes:
Only detected analytes are shown. See analytical reports for full details.
Screening critieria for the STCC facility are the previously approved cleanup goals for voluntary remedial actions (STI VCP) of total PAHs less than or equal to 100 mg/kg and Industrial SCOs for PCBs.
Total PAH concentrations are calculated as the sum of detected concentrations of the following PAHs based on PAHs reported for confirmatory samples collected
SCO - Soil Cleanup Objective (6 NYCRR Subpart 375)
PCBs - Polychlorinated Biphenyls
PAHs - polycyclic aromatic hydrocarbons
ft bgs - feet below ground surface
mg/kg -milligrams/kilogram
J - estimated values
U - values below the reporting limit
Shaded values exceed screening criteria.

TABLE 2
SUMMARY ANALYTICAL RESULT
SOILS OUTSIDE OF FRA FENCE

Former Scott Technologies Site
Elmira, New York

			Location	STI-B46	STI-B46	STI-B47	STI-B47	STI-B48	STI-B48
			Sample Depth Range	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17
			Sample Date	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016
Analyte	**Units**	**EQL**	**Residential SCO**						
Arsenic	mg/kg	0.93	16	8.9	9.5	5.6	6.6	7	7.7
Barium	mg/kg	19	350	65	84	140	130	170	190
Beryllium	mg/kg	0.37	14	0.43	0.44J	0.51	0.47	0.52	0.47
Cadmium	mg/kg	0.47	2.5	0.21J	0.39J	0.14J	0.23J	0.3J	0.54
Chromium (III+VI)	mg/kg	0.47	22	13	12	12	12	13	13
Chromium (hexavalent)	mg/kg	0.42	22	0.2J	0.17J	0.26J	0.6	0.37J	0.35J
Copper	mg/kg	2.3	270	21	25	26	14	22	28
Lead	mg/kg	0.93	400	110	330	38	94	130J+	320
Manganese	mg/kg	1.4	2000	370	430	640	630	650	650
Nickel	mg/kg	3.7	140	21	20	16	15	16	16
Selenium	mg/kg	0.37	36	<0.37U,^	0.56J	0.63J	0.69J	0.86J	0.81J
Silver	mg/kg	0.15	36	<0.15U	<0.19U	<0.16U	<0.17U	<0.17U	0.23J
Zinc	mg/kg	1.9	2200	120	160	65	82	120J+	220
Mercury	mg/kg	0.031	0.81	0.039	0.069	0.034	0.069	0.29J-	0.48

Notes:

Only detected analytes are shown. See analytical reports for full details.

Screening critieria for the FRA are Residential SCOs for metal COPCs.

SCO - Soil Cleanup Objective (6 NYCRR Subpart 375)

ft bgs - feet below ground surface

mg/kg -milligrams/kilogram

J - estimated values

U - values below the reporting limit

Shaded values exceed screening criteria.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
FOR HOLDING POND SEDIMENTS

Former Scott Technologies Site
Elmira, New York

						Location	SED-1	SED-2	SED-3	SED-4	STI-HP1	STI-HP2	STI-HP3	STI-HP4	STI-HP1	STI-HP2	STI-HP4	STI-HP1
						Sample Depth Range	0-0.17	0-0.17	0-0.17	0-0.17	0-0.5	0-0.5	0-0.5	0-0.5	0.5-1	0.5-1	0.5-1	1-2
						Sample Date	7/9/2002	7/9/2002	7/9/2002	7/9/2002	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
Analyses	**Analyte**	**Units**	**EQL**	**NYSDEC SGV Class A[1]**	**NYSDEC SGV Class C[1]**	**NYSDEC PAH SGV[2]**												
Inorganics	Total Organic Carbon	mg/kg	1600			-	-	-	-	280,000	230,000	260,000	26,000	83,000	150,000	130,000	45,000
Metals	Arsenic	mg/kg	0.86	10	33	-	-	-	-	12	8.2	8.8	5.5	12	9.7	14	9.7
	Cadmium	mg/kg	0.43	1	5	0.17B	0.74BJ	0.64BJ	0.47B	0.36J	1.4J	0.24J	0.57	0.46	0.42J	0.35J	0.26J
	Chromium (III+VI)	mg/kg	0.43	43	110	39.2	127J	266J	191	180	120	420	25	48	79	230	17J
	Copper	mg/kg	2.1	32	150	117	156J	156J	126	160	150	150	52	130	97	140	72J
	Lead	mg/kg	0.79	36	130	134J	146J	359J	165J	150	130	230	43	160	110	200	110
	Mercury	mg/kg	0.024	0.2	1	0.11BJ	0.13BJ	0.27J	0.12BJ	0.15B	0.28B	0.18B	0.07B	0.21B	0.16B	0.15B	0.11B
	Nickel	mg/kg	3.2	23	49	74.2	49.1J	106J	86	74	80	62	49	110	56	87	61
	Silver	mg/kg	0.15	1	2.2	-	-	-	-	<0.26U	<0.67U	<0.3U	<0.15U	0.17J	<0.21U	<0.17U	<0.26U
	Zinc	mg/kg	1.7	120	460	176J	175J	219J	235J	130	480	110	170	220	140	210	120J
PCBs	Arochlor 1016	mg/kg	0.0031			-	-	-	-	<0.0059U	<0.016U	<0.0071U	<0.0034U	<0.0034U	<0.0048U	<0.004U	<0.0031U
	Arochlor 1221	mg/kg	0.0049			-	-	-	-	<0.0093U	<0.025U	<0.011U	<0.0053U	<0.0054U	<0.0076U	<0.0063U	<0.0049U
	Arochlor 1232	mg/kg	0.0017			-	-	-	-	<0.0032U	<0.0086U	<0.0039U	<0.0019U	<0.0019U	<0.0027U	<0.0022U	<0.0017U
	Arochlor 1242	mg/kg	0.0025			-	-	-	-	<0.0048U	<0.013U	<0.0057U	<0.0027U	<0.0028U	<0.0039U	<0.0032U	<0.0025U
	Arochlor 1248	mg/kg	0.0067			0.14J	0.35NJ	4J	3.9	1.9J	0.24J	0.86J	0.18J	0.45J	0.38J	0.67J	0.0031J
	Arochlor 1254	mg/kg	0.0025			-	-	-	-	1.5J	0.16J	0.63J	0.081J	0.36J	0.24J	0.32J	<0.0025U
	Arochlor 1260	mg/kg	0.0023			-	-	-	-	0.54J	0.055J	0.23J	0.024J	0.13J	0.08J	0.098J	<0.0023U
	Arochlor 1268	mg/kg	0.0013			-	-	-	-	<0.0024U	<0.0064U	<0.0029U	<0.0014U	<0.0014U	<0.002U	<0.0016U	<0.0013U
	Arochlor 1262	mg/kg	0.0021			-	-	-	-	<0.004U	<0.011U	<0.0048U	<0.0023U	<0.0023U	<0.0033U	<0.0027U	<0.0021U
	Total PCBs	mg/kg		0.1	1	0.14	0.35	4	3.9	3.94	0.455	1.72	0.285	0.94	0.7	1.088	0.0031
PAHs	Total PAHs	mg/kg		4	35	6.443	2.94	5.157	1.617	5.405	45.96	9.44	41.97	5.733	26.66	4.483	3.993
	Acenaphthene	*mg/kg*	*0.054*			0.491	0.06J	-	-	-	0.064J	0.27J	0.056J	0.65	0.056J	0.35	0.042J	0.05J
	Acenaphthylene	mg/kg	0.054			0.452	-	-	-	-	0.095J	<0.16U	0.13J	0.21J	0.08J	0.13J	0.07	0.031J
	Anthracene	mg/kg	0.054			0.594	0.15J	0.16J	0.15J	0.075J	0.15J	0.83J	0.25	1.8	0.14	0.93	0.099	0.097
	Benz(a)anthracene	mg/kg	0.054			0.841	0.52J	0.26J	0.42J	0.15J	0.39	3.4	0.69	3.2	0.44	1.9	0.36	0.33
	Benzo(a) pyrene	mg/kg	0.054			0.964	0.42J	0.23J	0.4J	0.13J	0.38	3.9	0.77	2.8	0.46	2	0.36	0.33
	Benzo(b)fluoranthene	mg/kg	0.054			0.979	0.37J	0.18J	0.38J	0.13J	0.63	6.1	1	3.5	0.61	2.4	0.46	0.4
	Benzo(g,h,i)perylene	mg/kg	0.054			1.095	0.23J	-	0.43J	-	0.38	4	0.72	2.3	0.38	2	0.32	0.27J
	Benzo(k)fluoranthene	mg/kg	0.054			0.98	0.38	0.18J	0.36J	0.14J	0.18J	1.8	0.39	1.3	0.2	0.74	0.16	0.16
	Chrysene	mg/kg	0.054			0.843	0.51	0.25J	-	0.18J	0.49	4.4	0.82	3	0.51	2	0.41	0.37
	Dibenz(a,h)anthracene	mg/kg	0.023			1.122	-	-	-	-	<0.023U	<0.15U	0.19J	0.65	0.094	0.4	0.1	0.073
	Fluoranthene	mg/kg	0.054			0.708	1	0.52J	0.94J	0.31J	0.8	6.9	1.3	6.8	0.81	4.1	0.6	0.59
	Fluorene	mg/kg	0.054			0.539	0.063J	-	-	-	0.11J	0.35J	0.11J	1.4	0.089J	0.37	0.064J	0.06
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.054			1.115	0.37	0.23J	0.48J	-	0.24	3.8	0.6	2.1	0.31	1.6	0.29	0.21J
	Naphthalene	mg/kg	0.054			0.385	0.05J	-	0.047J	0.042J	0.21	0.18J	0.16J	0.61	0.12	0.19J	0.15	0.042J
	Phenanthrene	mg/kg	0.054			0.597	0.68	0.34J	0.35J	0.17J	0.64	3.6	0.91	6.8	0.58	3.5	0.43	0.43
	Pyrene	mg/kg	0.054			0.698	1.7	0.59J	1.2J	0.29J	0.71	6.7	1.4	5.5	0.91	4.4	0.61	0.6

Notes:

Only detected analytes with screening criteria are shown. See analytical reports for full details.

Total PAH concentrations are calculated as the sum of detected concentrations of the following PAHs based on PAHs reported for confirmatory samples collected during the voluntary remedial action conducted by STI in 1999-2000 (URS, 2002): naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, debenzo(a,h)anthracene, and benzo(g,h,i)perylene.

1 NYSDEC Class A and Class C Sediment Guidance Values (SGVs) for freshwater sediments from Table 6 of Screening and Assessment of Contaminated Sediment, NYSDEC, 24 June 2014.

2 NYSDEC SGVs for individual PAHS taken from Table 7 of Screening and Assessment of Contaminated Sediment, NYSDEC, 24 June 2014 and are in units of mg/g organic carbon (OC). Detected PAH concentrations in sediment are compared to NYSDEC PAH SGVs by dividing by the total organic carbon (TOC) concentration detected for that sample, if available.

PCBs - Polychlorinated Biphenyls
PAHs - polycyclic aromatic hydrocarbons
ft bgs - feet below ground surface
mg/kg -milligrams/kilogram
J - estimated values
U - values below the reporting limit
Shaded values exceed screening criteria.

TABLE 4
PROPOSED SOIL SAMPLING

Former Scott Technologies Site
Elmira, New York

Proposed Field ID	Sampling Interval		Sample Analysis		Rationale
	Surface 0 to 0.17 ft bgs	Sub 1 0.17 to 2 ft bgs	PCBs	PAHs	
STI-B49	X		X		Additional delineation of PCBs in surface soil in vicinity of STI-B37
STI-B50	X		X		
STI-B51	X			X	Additional delineation of PAHs in surface soil in the vicinity of STI-B42 and STI-B45
STI-B52	X			X	
STI-B53	X			X	
STI-B54	X			X	
STI-B55	X			X	
STI-B56	X			X	Additional delineation of PAHs in surface soil in the vicinity of STI-B38, STI-B39,and STI-B40
STI-B57	X			X	
STI-B58	X			X	
STI-B59	X			X	
STI-B60	X			X	
STI-B61	X	X		X	Additional delineation of PAHs in surface soil and shallow subsurface soil in the vicinity of STI-B41
STI-B62	X	X		X	
STI-B63	X	X		X	

Notes:

ft bgs - feet below ground surface

PCBs - Polychlorinated biphenyls

PAHs - Polynulclear aromatic hydrocarbons

Attachment 1

Laboratory Analytical Reports

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: 180-58484-1
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:
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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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Job ID: 180-58484-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-58484-1

Receipt
The samples were received on 9/9/2016 9:35 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/MS Semi VOA
Method(s) 8270D LL: The following samples were diluted due to the nature of the sample matrix:STI-HP1-SED-A (180-58484-1), STI-HP1-SED-B (180-58484-2), STI-HP1-SED-C (180-58484-3), STI-HP1-SED-C (180-58484-3[MS]), STI-HP1-SED-C (180-58484-3[MSD]), STI-HP3-SED-A (180-58484-6) and STI-HP4-SED-B (180-58484-8). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (sample extract was EXTREMELY viscous): STI-HP2-SED-A (180-58484-4), STI-HP2-SED-B (180-58484-5), STI-HP4-SED-A (180-58484-7) and STI-FD-1 (180-58484-9). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-188143 and analytical batch 180-188161 were outside control limits for several analytes. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-188161 recovered above the upper control limit for Atrazine, Benzaldehyde and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 180-188161/3).

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in 180-188373 was outside the method criteria for the following analyte(s): Bis(2-ethylhexyl) phthalate and Butyl benzyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

PCBs
Method(s) 8082A: The following samples were analyzed at a dilution due to the concentration of PCBs detected and/or matrix:: STI-HP1-SED-A (180-58484-1), STI-HP1-SED-B (180-58484-2), STI-HP1-SED-C (180-58484-3), STI-HP1-SED-C (180-58484-3[MS]), STI-HP1-SED-C (180-58484-3[MSD]), STI-HP2-SED-A (180-58484-4), STI-HP2-SED-B (180-58484-5), STI-HP3-SED-A (180-58484-6), STI-HP4-SED-A (180-58484-7), STI-HP4-SED-B (180-58484-8) and STI-FD-1 (180-58484-9). 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.

Llyod Kahn
Method(s) Lloyd Kahn: Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis.

Method(s) Lloyd Kahn: All samples are analyzed in duplicate, with the average result reported. For sample 8 STI-HP4-SED-B (180-58484-8), the %RPD of the individual results exceeded 50%. The sample was reanalyzed, and the %RPD failure repeated due to the non-homogeneous nature of the sample. Both sets of data are reported.

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

Metals
Method(s) 6010C: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: STI-HP1-SED-C (180-58484-3), STI-HP1-SED-C (180-58484-3[MS]), STI-HP1-SED-C (180-58484-3[MSD]), (180-58484-B-3-B PDS) and (180-58484-B-3-B SD ^). All analytes referencing the yttrium internal standards required dilution due to the yttrium counts being high and outside the 70%-130% control limits. Elevated reporting limits (RLs) are provided.

Job ID: 180-58484-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 6010C: The serial dilution performed for the following sample associated with prep batch 187659 was outside the control limits for aluminum, chromium, copper, iron, manganese, and zinc: STI-HP1-SED-C (180-58484-3)

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 187659 were outside the control limits for barium, copper, antimony, and/or zinc. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) precision for prep batch 187659 was outside the control limits for manganese. Sample matrix interference and/or non-homogeneity are suspected.

Method(s) 6010C: The post digestion spike % recoveries for chromium, copper, and zinc associated with prep batch 187659 were outside of the control limits.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

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
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
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

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.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

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

TestAmerica Job ID: 180-58484-1

Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-17

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

Analysis Method	Prep Method	Matrix	Analyte
2540G		Sediment	Percent Moisture
2540G		Sediment	Percent Solids
8270D LL	3541	Sediment	1,4-Dioxane

Sample Summary

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

TestAmerica Job ID: 180-58484-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-58484-1	STI-HP1-SED-A	Sediment	09/08/16 11:30	09/09/16 09:35
180-58484-2	STI-HP1-SED-B	Sediment	09/08/16 11:30	09/09/16 09:35
180-58484-3	STI-HP1-SED-C	Sediment	09/08/16 11:30	09/09/16 09:35
180-58484-4	STI-HP2-SED-A	Sediment	09/08/16 11:45	09/09/16 09:35
180-58484-5	STI-HP2-SED-B	Sediment	09/08/16 11:45	09/09/16 09:35
180-58484-6	STI-HP3-SED-A	Sediment	09/08/16 12:00	09/09/16 09:35
180-58484-7	STI-HP4-SED-A	Sediment	09/08/16 12:15	09/09/16 09:35
180-58484-8	STI-HP4-SED-B	Sediment	09/08/16 12:15	09/09/16 09:35
180-58484-9	STI-FD-1	Sediment	09/08/16 00:00	09/09/16 09:35

Method Summary

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

TestAmerica Job ID: 180-58484-1

Method	Method Description	Protocol	Laboratory
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM22 = SM22

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: 180-58484-1

Client Sample ID: STI-HP1-SED-A
Date Collected: 09/08/16 11:30
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-1
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188060	09/15/16 11:57	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-HP1-SED-A
Date Collected: 09/08/16 11:30
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-1
Matrix: Sediment
Percent Solids: 32.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			30.3 g	0.5 mL	188143	09/16/16 03:05	KLG	TAL PIT
Total/NA	Analysis	8270D LL		20	1 mL	1 mL	188161	09/16/16 12:24	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			30.1 g	1.0 mL	188144	09/16/16 03:20	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188348	09/19/16 06:11	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188349	09/19/16 06:12	JMO	TAL PIT
Total/NA	Analysis	8082A		10			188361	09/19/16 10:27	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			2.00 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188770	09/21/16 10:08	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			1.20 g	100 mL	187649	09/12/16 09:09	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 12:20	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	Lloyd Kahn		1			187780	09/13/16 08:42	JDD	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: STI-HP1-SED-B
Date Collected: 09/08/16 11:30
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-2
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188060	09/15/16 11:57	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-HP1-SED-B
Date Collected: 09/08/16 11:30
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-2
Matrix: Sediment
Percent Solids: 55.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			30.2 g	0.5 mL	188143	09/16/16 03:05	KLG	TAL PIT
Total/NA	Analysis	8270D LL		15	1 mL	1 mL	188161	09/16/16 13:18	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			30.2 g	1.0 mL	188144	09/16/16 03:20	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188348	09/19/16 06:11	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188349	09/19/16 06:12	JMO	TAL PIT

Lab Chronicle

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

TestAmerica Job ID: 180-58484-1

Client Sample ID: STI-HP1-SED-B

Lab Sample ID: 180-58484-2
Date Collected: 09/08/16 11:30
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 55.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		10			188361	09/19/16 10:45	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			2.12 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188770	09/21/16 10:13	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			1.31 g	100 mL	187649	09/12/16 09:09	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 12:22	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	Lloyd Kahn		1			187780	09/13/16 08:58	JDD	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: STI-HP1-SED-C

Lab Sample ID: 180-58484-3
Date Collected: 09/08/16 11:30
Matrix: Sediment
Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188060	09/15/16 11:57	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-HP1-SED-C

Lab Sample ID: 180-58484-3
Date Collected: 09/08/16 11:30
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 62.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			30.0 g	0.5 mL	188143	09/16/16 03:05	KLG	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	188161	09/16/16 13:45	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			30.0 g	1.0 mL	188144	09/16/16 03:20	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188348	09/19/16 06:11	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188349	09/19/16 06:12	JMO	TAL PIT
Total/NA	Analysis	8082A		10			188361	09/19/16 11:04	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			2.03 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188770	09/21/16 10:18	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	3050B			2.03 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		2			188770	09/21/16 12:29	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			1.34 g	100 mL	187649	09/12/16 09:09	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 12:24	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	Lloyd Kahn		1	7 mg	7 mg	188104	09/13/16 10:43	JDD	TAL PIT
	Instrument ID: FLASHEA									

Lab Chronicle

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

TestAmerica Job ID: 180-58484-1

Client Sample ID: STI-HP2-SED-A
Date Collected: 09/08/16 11:45
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-4
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188060	09/15/16 11:57	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-HP2-SED-A
Date Collected: 09/08/16 11:45
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-4
Matrix: Sediment
Percent Solids: 12.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			30.2 g	0.5 mL	188143	09/16/16 03:05	KLG	TAL PIT
Total/NA	Analysis	8270D LL		50	1 mL	1 mL	188161	09/16/16 15:07	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			30.2 g	1.0 mL	188144	09/16/16 03:20	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188348	09/19/16 06:11	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188349	09/19/16 06:12	JMO	TAL PIT
Total/NA	Analysis	8082A		10			188361	09/19/16 12:01	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			2.06 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188770	09/21/16 10:53	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			1.35 g	100 mL	187649	09/12/16 09:09	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 12:30	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	Lloyd Kahn		1			187780	09/13/16 09:14	JDD	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: STI-HP2-SED-B
Date Collected: 09/08/16 11:45
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-5
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188060	09/15/16 11:57	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-HP2-SED-B
Date Collected: 09/08/16 11:45
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-5
Matrix: Sediment
Percent Solids: 39.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			30.0 g	0.5 mL	188143	09/16/16 03:05	KLG	TAL PIT
Total/NA	Analysis	8270D LL		30	1 mL	1 mL	188161	09/16/16 15:34	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			30.0 g	1.0 mL	188144	09/16/16 03:20	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188348	09/19/16 06:11	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188349	09/19/16 06:12	JMO	TAL PIT

Lab Chronicle

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

TestAmerica Job ID: 180-58484-1

Client Sample ID: STI-HP2-SED-B

Lab Sample ID: 180-58484-5
Date Collected: 09/08/16 11:45
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 39.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		10			188361	09/19/16 12:20	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			2.03 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188770	09/21/16 10:58	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			1.20 g	100 mL	187649	09/12/16 09:09	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 12:32	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	Lloyd Kahn		1			187780	09/13/16 09:29	JDD	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: STI-HP3-SED-A

Lab Sample ID: 180-58484-6
Date Collected: 09/08/16 12:00
Matrix: Sediment
Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188060	09/15/16 11:57	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-HP3-SED-A

Lab Sample ID: 180-58484-6
Date Collected: 09/08/16 12:00
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 26.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			30.2 g	0.5 mL	188143	09/16/16 03:05	KLG	TAL PIT
Total/NA	Analysis	8270D LL		20	1 mL	1 mL	188161	09/16/16 16:00	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			30.3 g	1.0 mL	188144	09/16/16 03:20	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188348	09/19/16 06:11	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188349	09/19/16 06:12	JMO	TAL PIT
Total/NA	Analysis	8082A		10			188361	09/19/16 12:39	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			2.11 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188770	09/21/16 11:03	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			1.22 g	100 mL	187649	09/12/16 09:09	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 12:38	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	Lloyd Kahn		1			188104	09/13/16 11:46	JDD	TAL PIT
	Instrument ID: FLASHEA									

Lab Chronicle

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

TestAmerica Job ID: 180-58484-1

Client Sample ID: STI-HP4-SED-A
Date Collected: 09/08/16 12:15
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-7
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188060	09/15/16 11:57	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-HP4-SED-A
Date Collected: 09/08/16 12:15
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-7
Matrix: Sediment
Percent Solids: 56.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			30.1 g	0.5 mL	188143	09/16/16 03:05	KLG	TAL PIT
Total/NA	Analysis	8270D LL		50	1 mL	1 mL	188161	09/16/16 16:27	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			30.1 g	1.0 mL	188144	09/16/16 03:20	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188348	09/19/16 06:11	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188349	09/19/16 06:12	JMO	TAL PIT
Total/NA	Analysis	8082A		10			188361	09/19/16 12:57	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			2.01 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188770	09/21/16 11:08	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			1.28 g	100 mL	187649	09/12/16 09:09	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 12:39	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	Lloyd Kahn		1			188104	09/13/16 12:01	JDD	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: STI-HP4-SED-B
Date Collected: 09/08/16 12:15
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-8
Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188060	09/15/16 11:57	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-HP4-SED-B
Date Collected: 09/08/16 12:15
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-8
Matrix: Sediment
Percent Solids: 47.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			30.0 g	0.5 mL	188143	09/16/16 03:05	KLG	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	188161	09/16/16 16:54	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			30.2 g	1.0 mL	188144	09/16/16 03:20	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188348	09/19/16 06:11	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188349	09/19/16 06:12	JMO	TAL PIT

Lab Chronicle

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

TestAmerica Job ID: 180-58484-1

Client Sample ID: STI-HP4-SED-B

Date Collected: 09/08/16 12:15
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-8

Matrix: Sediment
Percent Solids: 47.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		10			188361	09/19/16 13:16	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			2.07 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188770	09/21/16 11:13	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			1.26 g	100 mL	187649	09/12/16 09:09	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 12:41	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	Lloyd Kahn		1			188104	09/13/16 12:28	JDD	TAL PIT
	Instrument ID: FLASHEA									
Total/NA	Analysis	Lloyd Kahn		1			188640	09/20/16 12:04	JDD	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: STI-FD-1

Date Collected: 09/08/16 00:00
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-9

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188060	09/15/16 11:57	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-FD-1

Date Collected: 09/08/16 00:00
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-9

Matrix: Sediment
Percent Solids: 39.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			30.2 g	0.5 mL	188143	09/16/16 03:05	KLG	TAL PIT
Total/NA	Analysis	8270D LL		40	1 mL	1 mL	188161	09/16/16 17:21	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			30.2 g	1.0 mL	188144	09/16/16 03:20	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188348	09/19/16 06:11	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188349	09/19/16 06:12	JMO	TAL PIT
Total/NA	Analysis	8082A		10			188361	09/19/16 13:35	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			2.12 g	100 mL	187659	09/12/16 10:28	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188770	09/21/16 11:18	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			1.22 g	100 mL	187649	09/12/16 09:09	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 12:43	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	Lloyd Kahn		1			188104	09/13/16 12:43	JDD	TAL PIT
	Instrument ID: FLASHEA									

Lab Chronicle

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

TestAmerica Job ID: 180-58484-1

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

JMO = John Oravec

Batch Type: Prep

ANA = Alexis Anderson

EVR = Emilie Reichenbach

KLG = Kevin Geehring

Batch Type: Analysis

CLL = Cheryl Loheyde

EVR = Emilie Reichenbach

JDD = James DeRubeis

JMO = John Oravec

RJG = Rob Good

VVP = Vincent Piccolino

Client Sample ID: STI-HP1-SED-A
Date Collected: 09/08/16 11:30
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-1
Matrix: Sediment
Percent Solids: 32.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**64**	**J**	210	20	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Acenaphthylene	**95**	**J**	210	24	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Acetophenone	ND		1000	84	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Anthracene	**150**	**J**	210	20	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Atrazine	ND		1000	100	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Benzaldehyde	ND		1000	150	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Benzo[a]anthracene	**390**		210	26	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Benzo[a]pyrene	**380**		210	21	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Benzo[b]fluoranthene	**630**		210	32	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Benzo[g,h,i]perylene	**380**		210	20	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Benzo[k]fluoranthene	**180**	**J**	210	41	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
1,1'-Biphenyl	ND		1000	92	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Bis(2-chloroethoxy)methane	ND		1000	68	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Bis(2-chloroethyl)ether	ND		210	28	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Bis(2-ethylhexyl) phthalate	ND		2100	170	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
4-Bromophenyl phenyl ether	ND		1000	89	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Butyl benzyl phthalate	ND		1000	140	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Caprolactam	ND		5200	770	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Carbazole	**56**	**J**	210	19	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
4-Chloroaniline	ND		1000	82	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
4-Chloro-3-methylphenol	ND		1000	94	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2-Chloronaphthalene	ND		210	21	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2-Chlorophenol	ND		1000	84	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
4-Chlorophenyl phenyl ether	ND		1000	110	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Chrysene	**490**		210	24	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Dibenz(a,h)anthracene	ND		210	23	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Dibenzofuran	ND		1000	100	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
3,3'-Dichlorobenzidine	ND		1000	110	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2,4-Dichlorophenol	ND		210	21	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Diethyl phthalate	ND		1000	110	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2,4-Dimethylphenol	ND		1000	160	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Dimethyl phthalate	ND		1000	110	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Di-n-butyl phthalate	**150**	**J**	1000	130	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
4,6-Dinitro-2-methylphenol	ND		5200	410	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2,4-Dinitrophenol	ND		5200	1200	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2,4-Dinitrotoluene	ND		1000	83	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2,6-Dinitrotoluene	ND		1000	110	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Di-n-octyl phthalate	ND		1000	110	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
1,4-Dioxane	ND		2100	120	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Fluoranthene	**800**		210	22	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Fluorene	**110**	**J**	210	27	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Hexachlorobenzene	ND		210	22	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Hexachlorobutadiene	ND		210	23	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Hexachlorocyclopentadiene	ND		1000	110	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Hexachloroethane	ND		1000	74	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Indeno[1,2,3-cd]pyrene	**240**		210	21	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Isophorone	ND		1000	77	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2-Methylnaphthalene	**240**		210	18	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2-Methylphenol	ND		1000	72	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20

Client Sample ID: STI-HP1-SED-A
Date Collected: 09/08/16 11:30
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-1
Matrix: Sediment
Percent Solids: 32.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	**160**	**J**	1000	100	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Naphthalene	**210**		210	18	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2-Nitroaniline	ND		5200	460	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
3-Nitroaniline	ND		5200	420	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
4-Nitroaniline	ND		5200	420	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Nitrobenzene	ND		2100	85	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2-Nitrophenol	ND		1000	110	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
4-Nitrophenol	ND		5200	370	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
N-Nitrosodi-n-propylamine	ND		210	24	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
N-Nitrosodiphenylamine	ND		1000	95	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2,2'-oxybis[1-chloropropane]	ND		210	22	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Pentachlorophenol	ND		1000	92	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Phenanthrene	**640**		210	33	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Phenol	ND		210	24	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
Pyrene	**710**		210	21	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
1,2,4,5-Tetrachlorobenzene	ND		1000	78	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2,3,4,6-Tetrachlorophenol	ND		1000	66	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2,4,5-Trichlorophenol	ND		1000	110	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20
2,4,6-Trichlorophenol	ND		1000	150	ug/Kg	☼	09/16/16 03:05	09/16/16 12:24	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*42 - 100*	*09/16/16 03:05*	*09/16/16 12:24*	*20*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*09/16/16 03:05*	*09/16/16 12:24*	*20*
Nitrobenzene-d5 (Surr)	*72*		*35 - 109*	*09/16/16 03:05*	*09/16/16 12:24*	*20*
Phenol-d5 (Surr)	*61*		*29 - 105*	*09/16/16 03:05*	*09/16/16 12:24*	*20*
Terphenyl-d14 (Surr)	*64*		*36 - 113*	*09/16/16 03:05*	*09/16/16 12:24*	*20*
2,4,6-Tribromophenol (Surr)	*56*		*20 - 134*	*09/16/16 03:05*	*09/16/16 12:24*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		13	5.9	ug/Kg	☼	09/16/16 03:20	09/19/16 10:27	10
PCB-1221	ND		13	9.3	ug/Kg	☼	09/16/16 03:20	09/19/16 10:27	10
PCB-1232	ND		13	3.2	ug/Kg	☼	09/16/16 03:20	09/19/16 10:27	10
PCB-1242	ND		13	4.8	ug/Kg	☼	09/16/16 03:20	09/19/16 10:27	10
PCB-1248	**1900**		13	3.0	ug/Kg	☼	09/16/16 03:20	09/19/16 10:27	10
PCB-1254	**1500**		13	4.8	ug/Kg	☼	09/16/16 03:20	09/19/16 10:27	10
PCB-1260	**540**		13	4.4	ug/Kg	☼	09/16/16 03:20	09/19/16 10:27	10
PCB-1262	ND		13	4.0	ug/Kg	☼	09/16/16 03:20	09/19/16 10:27	10
PCB-1268	ND		13	2.4	ug/Kg	☼	09/16/16 03:20	09/19/16 10:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*20 - 150*	*09/16/16 03:20*	*09/19/16 10:27*	*10*
DCB Decachlorobiphenyl (Surr)	*74*		*20 - 150*	*09/16/16 03:20*	*09/19/16 10:27*	*10*
Tetrachloro-m-xylene (Surr)	*60*		*20 - 130*	*09/16/16 03:20*	*09/19/16 10:27*	*10*
Tetrachloro-m-xylene (Surr)	*58*		*20 - 130*	*09/16/16 03:20*	*09/19/16 10:27*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5900**		31	12	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Antimony	**0.73**	**J**	1.6	0.55	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1

Client Sample ID: STI-HP1-SED-A

Lab Sample ID: 180-58484-1
Date Collected: 09/08/16 11:30
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 32.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		1.6	0.69	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Barium	190		31	8.3	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Beryllium	0.54	J	0.62	0.16	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Cadmium	0.36	J	0.78	0.17	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Calcium	3000		780	210	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Chromium	180		0.78	0.20	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Cobalt	5.9	J	7.8	1.7	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Copper	160		3.9	1.2	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Iron	16000		16	8.6	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Lead	150		1.6	0.51	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Magnesium	1600		780	200	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Manganese	130		2.3	0.63	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Nickel	74		6.2	1.4	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Potassium	620	J	780	190	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Selenium	2.3		1.6	0.62	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Silver	ND		0.78	0.26	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Sodium	280	J	780	220	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Thallium	ND		3.1	0.78	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Vanadium	14		7.8	2.4	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1
Zinc	130		3.1	1.6	mg/Kg	☼	09/12/16 10:28	09/21/16 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15	B	0.051	0.011	mg/Kg	☼	09/12/16 09:09	09/13/16 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	67.8		0.1	0.1	%			09/15/16 11:57	1
Percent Solids	32.2		0.1	0.1	%			09/15/16 11:57	1
Total Organic Carbon - Duplicates	280000		3100	1600	mg/Kg	☼		09/13/16 08:42	1

Client Sample ID: STI-HP1-SED-B

Lab Sample ID: 180-58484-2
Date Collected: 09/08/16 11:30
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 55.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	56	J	91	8.7	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Acenaphthylene	80	J	91	10	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Acetophenone	ND		450	37	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Anthracene	140		91	8.8	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Atrazine	ND		450	44	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Benzaldehyde	ND		450	68	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Benzo[a]anthracene	440		91	11	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Benzo[a]pyrene	460		91	9.0	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Benzo[b]fluoranthene	610		91	14	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Benzo[g,h,i]perylene	380		91	9.0	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Benzo[k]fluoranthene	200		91	18	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
1,1'-Biphenyl	ND		450	40	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Bis(2-chloroethoxy)methane	ND		450	30	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15

Client Sample ID: STI-HP1-SED-B
Date Collected: 09/08/16 11:30
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-2
Matrix: Sediment
Percent Solids: 55.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		91	12	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Bis(2-ethylhexyl) phthalate	ND		900	73	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
4-Bromophenyl phenyl ether	ND		450	39	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Butyl benzyl phthalate	ND		450	62	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Caprolactam	ND		2300	340	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Carbazole	**51**	**J**	91	8.3	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
4-Chloroaniline	ND		450	36	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
4-Chloro-3-methylphenol	ND		450	42	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2-Chloronaphthalene	ND		91	9.4	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2-Chlorophenol	ND		450	37	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
4-Chlorophenyl phenyl ether	ND		450	50	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Chrysene	**510**		91	11	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Dibenz(a,h)anthracene	**94**		91	10	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Dibenzofuran	**71**	**J**	450	44	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
3,3'-Dichlorobenzidine	ND		450	48	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2,4-Dichlorophenol	ND		91	9.1	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Diethyl phthalate	ND		450	49	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2,4-Dimethylphenol	ND		450	71	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Dimethyl phthalate	ND		450	49	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Di-n-butyl phthalate	ND		450	57	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
4,6-Dinitro-2-methylphenol	ND		2300	180	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2,4-Dinitrophenol	ND		2300	540	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2,4-Dinitrotoluene	ND		450	36	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2,6-Dinitrotoluene	ND		450	47	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Di-n-octyl phthalate	ND		450	48	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
1,4-Dioxane	ND		900	52	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Fluoranthene	**810**		91	9.7	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Fluorene	**89**	**J**	91	12	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Hexachlorobenzene	ND		91	9.6	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Hexachlorobutadiene	ND		91	10	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Hexachlorocyclopentadiene	ND		450	49	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Hexachloroethane	ND		450	32	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Indeno[1,2,3-cd]pyrene	**310**		91	9.3	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Isophorone	ND		450	34	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2-Methylnaphthalene	**130**		91	8.1	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2-Methylphenol	ND		450	32	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Methylphenol, 3 & 4	**170**	**J**	450	44	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Naphthalene	**120**		91	7.8	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2-Nitroaniline	ND		2300	200	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
3-Nitroaniline	ND		2300	190	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
4-Nitroaniline	ND		2300	180	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Nitrobenzene	ND		900	38	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2-Nitrophenol	ND		450	50	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
4-Nitrophenol	ND		2300	160	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
N-Nitrosodi-n-propylamine	ND		91	11	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
N-Nitrosodiphenylamine	ND		450	42	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2,2'-oxybis[1-chloropropane]	ND		91	9.7	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Pentachlorophenol	ND		450	40	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Phenanthrene	**580**		91	14	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15

Client Sample ID: STI-HP1-SED-B **Lab Sample ID: 180-58484-2**
Date Collected: 09/08/16 11:30 **Matrix: Sediment**
Date Received: 09/09/16 09:35 **Percent Solids: 55.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**65**	**J**	91	11	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
Pyrene	**910**		91	9.1	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
1,2,4,5-Tetrachlorobenzene	ND		450	34	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2,3,4,6-Tetrachlorophenol	ND		450	29	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2,4,5-Trichlorophenol	ND		450	48	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15
2,4,6-Trichlorophenol	ND		450	68	ug/Kg	☼	09/16/16 03:05	09/16/16 13:18	15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*42 - 100*	*09/16/16 03:05*	*09/16/16 13:18*	*15*
2-Fluorophenol (Surr)	*70*		*21 - 107*	*09/16/16 03:05*	*09/16/16 13:18*	*15*
Nitrobenzene-d5 (Surr)	*84*		*35 - 109*	*09/16/16 03:05*	*09/16/16 13:18*	*15*
Phenol-d5 (Surr)	*69*		*29 - 105*	*09/16/16 03:05*	*09/16/16 13:18*	*15*
Terphenyl-d14 (Surr)	*78*		*36 - 113*	*09/16/16 03:05*	*09/16/16 13:18*	*15*
2,4,6-Tribromophenol (Surr)	*56*		*20 - 134*	*09/16/16 03:05*	*09/16/16 13:18*	*15*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		7.5	3.4	ug/Kg	☼	09/16/16 03:20	09/19/16 10:45	10
PCB-1221	ND		7.5	5.4	ug/Kg	☼	09/16/16 03:20	09/19/16 10:45	10
PCB-1232	ND		7.5	1.9	ug/Kg	☼	09/16/16 03:20	09/19/16 10:45	10
PCB-1242	ND		7.5	2.8	ug/Kg	☼	09/16/16 03:20	09/19/16 10:45	10
PCB-1248	**450**		7.5	1.8	ug/Kg	☼	09/16/16 03:20	09/19/16 10:45	10
PCB-1254	**360**		7.5	2.8	ug/Kg	☼	09/16/16 03:20	09/19/16 10:45	10
PCB-1260	**130**		7.5	2.6	ug/Kg	☼	09/16/16 03:20	09/19/16 10:45	10
PCB-1262	ND		7.5	2.3	ug/Kg	☼	09/16/16 03:20	09/19/16 10:45	10
PCB-1268	ND		7.5	1.4	ug/Kg	☼	09/16/16 03:20	09/19/16 10:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*105*		*20 - 150*	*09/16/16 03:20*	*09/19/16 10:45*	*10*
DCB Decachlorobiphenyl (Surr)	*120*		*20 - 150*	*09/16/16 03:20*	*09/19/16 10:45*	*10*
Tetrachloro-m-xylene (Surr)	*75*		*20 - 130*	*09/16/16 03:20*	*09/19/16 10:45*	*10*
Tetrachloro-m-xylene (Surr)	*72*		*20 - 130*	*09/16/16 03:20*	*09/19/16 10:45*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8500**		17	6.5	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Antimony	**0.57**	**J**	0.86	0.30	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Arsenic	**12**		0.86	0.38	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Barium	**250**		17	4.6	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Beryllium	**0.57**		0.34	0.090	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Cadmium	**0.46**		0.43	0.096	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Calcium	**6100**		430	120	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Chromium	**48**		0.43	0.11	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Cobalt	**10**		4.3	0.96	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Copper	**130**		2.1	0.66	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Iron	**23000**		8.6	4.7	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Lead	**160**		0.86	0.28	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Magnesium	**2300**		430	110	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Manganese	**310**		1.3	0.35	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Nickel	**110**		3.4	0.77	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1

Client Sample ID: STI-HP1-SED-B

Lab Sample ID: 180-58484-2
Date Collected: 09/08/16 11:30
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 55.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	630		430	100	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Selenium	1.5		0.86	0.34	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Silver	0.17	J	0.43	0.14	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Sodium	180	J	430	120	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Thallium	ND		1.7	0.43	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Vanadium	18		4.3	1.3	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1
Zinc	220		1.7	0.87	mg/Kg	☼	09/12/16 10:28	09/21/16 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21	B	0.027	0.0062	mg/Kg	☼	09/12/16 09:09	09/13/16 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	45.0		0.1	0.1	%			09/15/16 11:57	1
Percent Solids	55.0		0.1	0.1	%			09/15/16 11:57	1
Total Organic Carbon - Duplicates	83000		1800	910	mg/Kg	☼		09/13/16 08:58	1

Client Sample ID: STI-HP1-SED-C

Lab Sample ID: 180-58484-3
Date Collected: 09/08/16 11:30
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 62.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	50	J	54	5.2	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Acenaphthylene	31	J	54	6.2	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Acetophenone	ND		270	22	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Anthracene	97		54	5.3	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Atrazine	ND		270	26	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Benzaldehyde	ND		270	40	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Benzo[a]anthracene	330		54	6.7	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Benzo[a]pyrene	330		54	5.4	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Benzo[b]fluoranthene	400		54	8.5	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Benzo[g,h,i]perylene	270	F1	54	5.4	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Benzo[k]fluoranthene	160		54	11	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
1,1'-Biphenyl	ND		270	24	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Bis(2-chloroethoxy)methane	ND		270	18	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Bis(2-chloroethyl)ether	ND		54	7.2	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Bis(2-ethylhexyl) phthalate	ND		540	43	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
4-Bromophenyl phenyl ether	ND		270	23	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Butyl benzyl phthalate	ND		270	37	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Caprolactam	ND		1400	200	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Carbazole	50	J	54	5.0	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
4-Chloroaniline	ND		270	22	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
4-Chloro-3-methylphenol	ND		270	25	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2-Chloronaphthalene	ND		54	5.6	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2-Chlorophenol	ND		270	22	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
4-Chlorophenyl phenyl ether	ND		270	30	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Chrysene	370		54	6.4	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Dibenz(a,h)anthracene	73		54	6.0	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10

Client Sample ID: STI-HP1-SED-C
Date Collected: 09/08/16 11:30
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-3
Matrix: Sediment
Percent Solids: 62.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	**37**	**J**	270	26	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
3,3'-Dichlorobenzidine	ND		270	28	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2,4-Dichlorophenol	ND		54	5.4	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Diethyl phthalate	ND		270	29	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2,4-Dimethylphenol	ND		270	42	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Dimethyl phthalate	ND		270	29	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Di-n-butyl phthalate	ND		270	34	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
4,6-Dinitro-2-methylphenol	ND		1400	110	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2,4-Dinitrophenol	ND	F1	1400	320	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2,4-Dinitrotoluene	ND		270	22	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2,6-Dinitrotoluene	ND		270	28	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Di-n-octyl phthalate	ND		270	28	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
1,4-Dioxane	ND		540	31	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Fluoranthene	**590**		54	5.8	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Fluorene	**60**		54	7.1	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Hexachlorobenzene	ND		54	5.7	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Hexachlorobutadiene	ND	F1	54	6.0	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Hexachlorocyclopentadiene	ND	F1	270	29	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Hexachloroethane	ND		270	19	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Indeno[1,2,3-cd]pyrene	**210**	**F1**	54	5.5	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Isophorone	ND		270	20	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2-Methylnaphthalene	**44**	**J**	54	4.8	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2-Methylphenol	ND		270	19	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Methylphenol, 3 & 4	**37**	**J**	270	26	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Naphthalene	**42**	**J**	54	4.6	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2-Nitroaniline	ND		1400	120	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
3-Nitroaniline	ND		1400	110	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
4-Nitroaniline	ND		1400	110	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Nitrobenzene	ND		540	22	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2-Nitrophenol	ND		270	30	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
4-Nitrophenol	ND		1400	98	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
N-Nitrosodi-n-propylamine	ND		54	6.3	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
N-Nitrosodiphenylamine	ND		270	25	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2,2'-oxybis[1-chloropropane]	ND		54	5.8	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Pentachlorophenol	ND	F1 F2	270	24	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Phenanthrene	**430**		54	8.6	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Phenol	ND		54	6.4	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
Pyrene	**600**		54	5.4	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
1,2,4,5-Tetrachlorobenzene	ND	F1	270	20	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2,3,4,6-Tetrachlorophenol	ND		270	17	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2,4,5-Trichlorophenol	ND		270	29	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10
2,4,6-Trichlorophenol	ND		270	40	ug/Kg	☼	09/16/16 03:05	09/16/16 13:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*42 - 100*	*09/16/16 03:05*	*09/16/16 13:45*	*10*
2-Fluorophenol (Surr)	*65*		*21 - 107*	*09/16/16 03:05*	*09/16/16 13:45*	*10*
Nitrobenzene-d5 (Surr)	*79*		*35 - 109*	*09/16/16 03:05*	*09/16/16 13:45*	*10*
Phenol-d5 (Surr)	*71*		*29 - 105*	*09/16/16 03:05*	*09/16/16 13:45*	*10*
Terphenyl-d14 (Surr)	*72*		*36 - 113*	*09/16/16 03:05*	*09/16/16 13:45*	*10*
2,4,6-Tribromophenol (Surr)	*59*		*20 - 134*	*09/16/16 03:05*	*09/16/16 13:45*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		6.7	3.1	ug/Kg	☼	09/16/16 03:20	09/19/16 11:04	10
PCB-1221	ND		6.7	4.9	ug/Kg	☼	09/16/16 03:20	09/19/16 11:04	10
PCB-1232	ND		6.7	1.7	ug/Kg	☼	09/16/16 03:20	09/19/16 11:04	10
PCB-1242	ND		6.7	2.5	ug/Kg	☼	09/16/16 03:20	09/19/16 11:04	10
PCB-1248	**3.1**	**J**	6.7	1.6	ug/Kg	☼	09/16/16 03:20	09/19/16 11:04	10
PCB-1254	ND		6.7	2.5	ug/Kg	☼	09/16/16 03:20	09/19/16 11:04	10
PCB-1260	ND		6.7	2.3	ug/Kg	☼	09/16/16 03:20	09/19/16 11:04	10
PCB-1262	ND		6.7	2.1	ug/Kg	☼	09/16/16 03:20	09/19/16 11:04	10
PCB-1268	ND		6.7	1.3	ug/Kg	☼	09/16/16 03:20	09/19/16 11:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*20 - 150*	*09/16/16 03:20*	*09/19/16 11:04*	*10*
DCB Decachlorobiphenyl (Surr)	*110*		*20 - 150*	*09/16/16 03:20*	*09/19/16 11:04*	*10*
Tetrachloro-m-xylene (Surr)	*61*		*20 - 130*	*09/16/16 03:20*	*09/19/16 11:04*	*10*
Tetrachloro-m-xylene (Surr)	*60*		*20 - 130*	*09/16/16 03:20*	*09/19/16 11:04*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9500**		32	12	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Antimony	ND	F1	1.6	0.56	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Arsenic	**9.7**		1.6	0.70	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Barium	**160**	**F1**	32	8.5	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Beryllium	**0.53**	**J**	0.64	0.17	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Cadmium	**0.26**	**J**	0.79	0.18	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Calcium	**2500**		790	220	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Chromium	**17**		0.79	0.21	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Cobalt	**9.5**		4.0	0.89	mg/Kg	☼	09/12/16 10:28	09/21/16 10:18	1
Copper	**72**	**F1**	4.0	1.2	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Iron	**21000**		16	8.8	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Lead	**110**		0.79	0.26	mg/Kg	☼	09/12/16 10:28	09/21/16 10:18	1
Magnesium	**2500**		790	200	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Manganese	**550**	**F2**	2.4	0.64	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Nickel	**61**		3.2	0.72	mg/Kg	☼	09/12/16 10:28	09/21/16 10:18	1
Potassium	**750**	**J**	790	190	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Selenium	ND		1.6	0.63	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Silver	ND		0.79	0.26	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Sodium	ND		790	220	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Thallium	ND		1.6	0.40	mg/Kg	☼	09/12/16 10:28	09/21/16 10:18	1
Vanadium	**17**		7.9	2.5	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2
Zinc	**120**	**F1**	3.2	1.6	mg/Kg	☼	09/12/16 10:28	09/21/16 12:29	2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**	**B**	0.024	0.0053	mg/Kg	☼	09/12/16 09:09	09/13/16 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**38.0**		0.1	0.1	%			09/15/16 11:57	1
Percent Solids	**62.0**		0.1	0.1	%			09/15/16 11:57	1
Total Organic Carbon - Duplicates	**45000**		1600	810	mg/Kg	☼		09/13/16 10:43	1

Client Sample ID: STI-HP2-SED-A

Date Collected: 09/08/16 11:45
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-4

Matrix: Sediment
Percent Solids: 12.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**270**	**J**	1400	130	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Acenaphthylene	ND		1400	160	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Acetophenone	ND		6800	560	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Anthracene	**830**	**J**	1400	130	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Atrazine	ND		6800	670	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Benzaldehyde	ND		6800	1000	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Benzo[a]anthracene	**3400**		1400	170	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Benzo[a]pyrene	**3900**		1400	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Benzo[b]fluoranthene	**6100**		1400	220	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Benzo[g,h,i]perylene	**4000**		1400	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Benzo[k]fluoranthene	**1800**		1400	280	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
1,1'-Biphenyl	ND		6800	610	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Bis(2-chloroethoxy)methane	ND		6800	450	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Bis(2-chloroethyl)ether	ND		1400	180	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Bis(2-ethylhexyl) phthalate	**3000**	**J**	14000	1100	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
4-Bromophenyl phenyl ether	ND		6800	600	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Butyl benzyl phthalate	**1100**	**J**	6800	940	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Caprolactam	ND		35000	5200	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Carbazole	**530**	**J**	1400	130	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
4-Chloroaniline	ND		6800	550	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
4-Chloro-3-methylphenol	ND		6800	630	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2-Chloronaphthalene	ND		1400	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2-Chlorophenol	ND		6800	560	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
4-Chlorophenyl phenyl ether	ND		6800	760	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Chrysene	**4400**		1400	160	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Dibenz(a,h)anthracene	ND		1400	150	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Dibenzofuran	ND		6800	680	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
3,3'-Dichlorobenzidine	ND		6800	730	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2,4-Dichlorophenol	ND		1400	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Diethyl phthalate	ND		6800	750	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2,4-Dimethylphenol	ND		6800	1100	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Dimethyl phthalate	ND		6800	750	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Di-n-butyl phthalate	ND		6800	860	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
4,6-Dinitro-2-methylphenol	ND		35000	2800	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2,4-Dinitrophenol	ND		35000	8200	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2,4-Dinitrotoluene	ND		6800	550	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2,6-Dinitrotoluene	ND		6800	710	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Di-n-octyl phthalate	ND		6800	720	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
1,4-Dioxane	ND		14000	790	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Fluoranthene	**6900**		1400	150	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Fluorene	**350**	**J**	1400	180	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Hexachlorobenzene	ND		1400	150	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Hexachlorobutadiene	ND		1400	150	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Hexachlorocyclopentadiene	ND		6800	740	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Hexachloroethane	ND		6800	490	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Indeno[1,2,3-cd]pyrene	**3800**		1400	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Isophorone	ND		6800	520	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2-Methylnaphthalene	**170**	**J**	1400	120	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2-Methylphenol	ND		6800	480	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50

Client Sample ID: STI-HP2-SED-A
Date Collected: 09/08/16 11:45
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-4
Matrix: Sediment
Percent Solids: 12.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		6800	670	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Naphthalene	**180**	**J**	1400	120	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2-Nitroaniline	ND		35000	3100	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
3-Nitroaniline	ND		35000	2800	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
4-Nitroaniline	ND		35000	2800	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Nitrobenzene	ND		14000	570	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2-Nitrophenol	ND		6800	760	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
4-Nitrophenol	ND		35000	2500	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
N-Nitrosodi-n-propylamine	ND		1400	160	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
N-Nitrosodiphenylamine	ND		6800	640	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2,2'-oxybis[1-chloropropane]	ND		1400	150	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Pentachlorophenol	ND		6800	610	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Phenanthrene	**3600**		1400	220	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Phenol	ND		1400	160	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
Pyrene	**6700**		1400	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
1,2,4,5-Tetrachlorobenzene	ND		6800	520	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2,3,4,6-Tetrachlorophenol	ND		6800	440	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2,4,5-Trichlorophenol	ND		6800	730	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50
2,4,6-Trichlorophenol	ND		6800	1000	ug/Kg	☼	09/16/16 03:05	09/16/16 15:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D X*	*42 - 100*	*09/16/16 03:05*	*09/16/16 15:07*	*50*
2-Fluorophenol (Surr)	*0*	*D X*	*21 - 107*	*09/16/16 03:05*	*09/16/16 15:07*	*50*
Nitrobenzene-d5 (Surr)	*0*	*D X*	*35 - 109*	*09/16/16 03:05*	*09/16/16 15:07*	*50*
Phenol-d5 (Surr)	*0*	*D X*	*29 - 105*	*09/16/16 03:05*	*09/16/16 15:07*	*50*
Terphenyl-d14 (Surr)	*0*	*D X*	*36 - 113*	*09/16/16 03:05*	*09/16/16 15:07*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*D X*	*20 - 134*	*09/16/16 03:05*	*09/16/16 15:07*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		34	16	ug/Kg	☼	09/16/16 03:20	09/19/16 12:01	10
PCB-1221	ND		34	25	ug/Kg	☼	09/16/16 03:20	09/19/16 12:01	10
PCB-1232	ND		34	8.6	ug/Kg	☼	09/16/16 03:20	09/19/16 12:01	10
PCB-1242	ND		34	13	ug/Kg	☼	09/16/16 03:20	09/19/16 12:01	10
PCB-1248	**240**		34	8.0	ug/Kg	☼	09/16/16 03:20	09/19/16 12:01	10
PCB-1254	**160**		34	13	ug/Kg	☼	09/16/16 03:20	09/19/16 12:01	10
PCB-1260	**55**		34	12	ug/Kg	☼	09/16/16 03:20	09/19/16 12:01	10
PCB-1262	ND		34	11	ug/Kg	☼	09/16/16 03:20	09/19/16 12:01	10
PCB-1268	ND		34	6.4	ug/Kg	☼	09/16/16 03:20	09/19/16 12:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*44*		*20 - 150*	*09/16/16 03:20*	*09/19/16 12:01*	*10*
DCB Decachlorobiphenyl (Surr)	*50*		*20 - 150*	*09/16/16 03:20*	*09/19/16 12:01*	*10*
Tetrachloro-m-xylene (Surr)	*48*		*20 - 130*	*09/16/16 03:20*	*09/19/16 12:01*	*10*
Tetrachloro-m-xylene (Surr)	*45*		*20 - 130*	*09/16/16 03:20*	*09/19/16 12:01*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7500**		80	31	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Antimony	ND		4.0	1.4	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1

Client Sample ID: STI-HP2-SED-A

Lab Sample ID: 180-58484-4
Date Collected: 09/08/16 11:45
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 12.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.2		4.0	1.8	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Barium	89		80	22	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Beryllium	ND		1.6	0.42	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Cadmium	1.4	J	2.0	0.45	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Calcium	11000		2000	560	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Chromium	120		2.0	0.52	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Cobalt	7.3	J	20	4.5	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Copper	150		10	3.1	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Iron	21000		40	22	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Lead	130		4.0	1.3	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Magnesium	4400		2000	510	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Manganese	120		6.0	1.6	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Nickel	80		16	3.6	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Potassium	970	J	2000	480	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Selenium	4.6		4.0	1.6	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Silver	ND		2.0	0.67	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Sodium	720	J	2000	560	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Thallium	ND		8.0	2.0	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Vanadium	20		20	6.3	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1
Zinc	480		8.0	4.1	mg/Kg	☼	09/12/16 10:28	09/21/16 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28	B	0.12	0.027	mg/Kg	☼	09/12/16 09:09	09/13/16 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	87.9		0.1	0.1	%			09/15/16 11:57	1
Percent Solids	12.1		0.1	0.1	%			09/15/16 11:57	1
Total Organic Carbon - Duplicates	230000		8300	4100	mg/Kg	☼		09/13/16 09:14	1

Client Sample ID: STI-HP2-SED-B

Lab Sample ID: 180-58484-5
Date Collected: 09/08/16 11:45
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 39.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	350		260	24	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Acenaphthylene	130	J	260	29	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Acetophenone	ND		1300	100	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Anthracene	930		260	25	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Atrazine	ND		1300	120	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Benzaldehyde	ND		1300	190	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Benzo[a]anthracene	1900		260	32	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Benzo[a]pyrene	2000		260	25	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Benzo[b]fluoranthene	2400		260	40	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Benzo[g,h,i]perylene	2000		260	25	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Benzo[k]fluoranthene	740		260	51	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
1,1'-Biphenyl	ND		1300	110	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Bis(2-chloroethoxy)methane	ND		1300	84	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30

Client Sample ID: STI-HP2-SED-B
Date Collected: 09/08/16 11:45
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-5
Matrix: Sediment
Percent Solids: 39.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		260	34	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Bis(2-ethylhexyl) phthalate	ND		2500	210	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
4-Bromophenyl phenyl ether	ND		1300	110	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Butyl benzyl phthalate	ND		1300	170	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Caprolactam	ND		6500	960	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Carbazole	**330**		260	23	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
4-Chloroaniline	ND		1300	100	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
4-Chloro-3-methylphenol	ND		1300	120	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2-Chloronaphthalene	ND		260	26	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2-Chlorophenol	ND		1300	100	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
4-Chlorophenyl phenyl ether	ND		1300	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Chrysene	**2000**		260	30	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Dibenz(a,h)anthracene	**400**		260	28	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Dibenzofuran	**210**	**J**	1300	120	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
3,3'-Dichlorobenzidine	ND		1300	130	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2,4-Dichlorophenol	ND		260	25	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Diethyl phthalate	ND		1300	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2,4-Dimethylphenol	ND		1300	200	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Dimethyl phthalate	ND		1300	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Di-n-butyl phthalate	ND		1300	160	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
4,6-Dinitro-2-methylphenol	ND		6500	510	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2,4-Dinitrophenol	ND		6500	1500	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2,4-Dinitrotoluene	ND		1300	100	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2,6-Dinitrotoluene	ND		1300	130	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Di-n-octyl phthalate	ND		1300	130	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
1,4-Dioxane	ND		2500	150	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Fluoranthene	**4100**		260	27	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Fluorene	**370**		260	33	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Hexachlorobenzene	ND		260	27	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Hexachlorobutadiene	ND		260	28	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Hexachlorocyclopentadiene	ND		1300	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Hexachloroethane	ND		1300	91	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Indeno[1,2,3-cd]pyrene	**1600**		260	26	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Isophorone	ND		1300	96	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2-Methylnaphthalene	**260**		260	23	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2-Methylphenol	ND		1300	89	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Methylphenol, 3 & 4	**190**	**J**	1300	120	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Naphthalene	**190**	**J**	260	22	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2-Nitroaniline	ND		6500	570	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
3-Nitroaniline	ND		6500	520	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
4-Nitroaniline	ND		6500	510	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Nitrobenzene	ND		2500	110	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2-Nitrophenol	ND		1300	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
4-Nitrophenol	ND		6500	460	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
N-Nitrosodi-n-propylamine	ND		260	30	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
N-Nitrosodiphenylamine	ND		1300	120	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2,2'-oxybis[1-chloropropane]	ND		260	27	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Pentachlorophenol	ND		1300	110	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Phenanthrene	**3500**		260	40	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30

Client Sample ID: STI-HP2-SED-B
Date Collected: 09/08/16 11:45
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-5
Matrix: Sediment
Percent Solids: 39.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		260	30	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
Pyrene	**4400**		260	26	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
1,2,4,5-Tetrachlorobenzene	ND		1300	96	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2,3,4,6-Tetrachlorophenol	ND		1300	82	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2,4,5-Trichlorophenol	ND		1300	140	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30
2,4,6-Trichlorophenol	ND		1300	190	ug/Kg	☼	09/16/16 03:05	09/16/16 15:34	30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D X*	*42 - 100*	*09/16/16 03:05*	*09/16/16 15:34*	*30*
2-Fluorophenol (Surr)	*0*	*D X*	*21 - 107*	*09/16/16 03:05*	*09/16/16 15:34*	*30*
Nitrobenzene-d5 (Surr)	*0*	*D X*	*35 - 109*	*09/16/16 03:05*	*09/16/16 15:34*	*30*
Phenol-d5 (Surr)	*0*	*D X*	*29 - 105*	*09/16/16 03:05*	*09/16/16 15:34*	*30*
Terphenyl-d14 (Surr)	*0*	*D X*	*36 - 113*	*09/16/16 03:05*	*09/16/16 15:34*	*30*
2,4,6-Tribromophenol (Surr)	*0*	*D X*	*20 - 134*	*09/16/16 03:05*	*09/16/16 15:34*	*30*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		11	4.8	ug/Kg	☼	09/16/16 03:20	09/19/16 12:20	10
PCB-1221	ND		11	7.6	ug/Kg	☼	09/16/16 03:20	09/19/16 12:20	10
PCB-1232	ND		11	2.7	ug/Kg	☼	09/16/16 03:20	09/19/16 12:20	10
PCB-1242	ND		11	3.9	ug/Kg	☼	09/16/16 03:20	09/19/16 12:20	10
PCB-1248	**380**		11	2.5	ug/Kg	☼	09/16/16 03:20	09/19/16 12:20	10
PCB-1254	**240**		11	3.9	ug/Kg	☼	09/16/16 03:20	09/19/16 12:20	10
PCB-1260	**80**		11	3.6	ug/Kg	☼	09/16/16 03:20	09/19/16 12:20	10
PCB-1262	ND		11	3.3	ug/Kg	☼	09/16/16 03:20	09/19/16 12:20	10
PCB-1268	ND		11	2.0	ug/Kg	☼	09/16/16 03:20	09/19/16 12:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 150*	*09/16/16 03:20*	*09/19/16 12:20*	*10*
DCB Decachlorobiphenyl (Surr)	*101*		*20 - 150*	*09/16/16 03:20*	*09/19/16 12:20*	*10*
Tetrachloro-m-xylene (Surr)	*75*		*20 - 130*	*09/16/16 03:20*	*09/19/16 12:20*	*10*
Tetrachloro-m-xylene (Surr)	*70*		*20 - 130*	*09/16/16 03:20*	*09/19/16 12:20*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7300**		25	9.5	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Antimony	ND		1.2	0.44	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Arsenic	**9.7**		1.2	0.55	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Barium	**78**		25	6.7	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Beryllium	**0.48**	**J**	0.50	0.13	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Cadmium	**0.42**	**J**	0.62	0.14	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Calcium	**2400**		620	170	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Chromium	**79**		0.62	0.16	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Cobalt	**7.0**		6.2	1.4	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Copper	**97**		3.1	0.96	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Iron	**17000**		12	6.9	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Lead	**110**		1.2	0.41	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Magnesium	**1900**		620	160	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Manganese	**90**		1.9	0.51	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Nickel	**56**		5.0	1.1	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1

Client Sample ID: STI-HP2-SED-B

Lab Sample ID: 180-58484-5
Date Collected: 09/08/16 11:45
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 39.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	650		620	150	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Selenium	1.3		1.2	0.50	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Silver	ND		0.62	0.21	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Sodium	230	J	620	170	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Thallium	ND		2.5	0.62	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Vanadium	14		6.2	1.9	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1
Zinc	140		2.5	1.3	mg/Kg	☼	09/12/16 10:28	09/21/16 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	B	0.042	0.0094	mg/Kg	☼	09/12/16 09:09	09/13/16 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	60.6		0.1	0.1	%			09/15/16 11:57	1
Percent Solids	39.4		0.1	0.1	%			09/15/16 11:57	1
Total Organic Carbon - Duplicates	150000		2500	1300	mg/Kg	☼		09/13/16 09:29	1

Client Sample ID: STI-HP3-SED-A

Lab Sample ID: 180-58484-6
Date Collected: 09/08/16 12:00
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 26.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	56	J	250	24	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Acenaphthylene	130	J	250	29	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Acetophenone	ND		1200	100	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Anthracene	250		250	24	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Atrazine	ND		1200	120	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Benzaldehyde	ND		1200	190	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Benzo[a]anthracene	690		250	31	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Benzo[a]pyrene	770		250	25	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Benzo[b]fluoranthene	1000		250	39	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Benzo[g,h,i]perylene	720		250	25	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Benzo[k]fluoranthene	390		250	50	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
1,1'-Biphenyl	ND		1200	110	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Bis(2-chloroethoxy)methane	ND		1200	82	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Bis(2-chloroethyl)ether	ND		250	34	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Bis(2-ethylhexyl) phthalate	ND		2500	200	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
4-Bromophenyl phenyl ether	ND		1200	110	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Butyl benzyl phthalate	ND		1200	170	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Caprolactam	ND		6400	940	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Carbazole	81	J	250	23	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
4-Chloroaniline	ND		1200	100	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
4-Chloro-3-methylphenol	ND		1200	110	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2-Chloronaphthalene	ND		250	26	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2-Chlorophenol	ND		1200	100	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
4-Chlorophenyl phenyl ether	ND		1200	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Chrysene	820		250	30	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Dibenz(a,h)anthracene	190	J	250	28	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20

Client Sample ID: STI-HP3-SED-A
Date Collected: 09/08/16 12:00
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-6
Matrix: Sediment
Percent Solids: 26.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		1200	120	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
3,3'-Dichlorobenzidine	ND		1200	130	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2,4-Dichlorophenol	ND		250	25	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Diethyl phthalate	ND		1200	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2,4-Dimethylphenol	ND		1200	200	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Dimethyl phthalate	ND		1200	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Di-n-butyl phthalate	ND		1200	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
4,6-Dinitro-2-methylphenol	ND		6400	500	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2,4-Dinitrophenol	ND		6400	1500	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2,4-Dinitrotoluene	ND		1200	100	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2,6-Dinitrotoluene	ND		1200	130	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Di-n-octyl phthalate	ND		1200	130	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
1,4-Dioxane	ND		2500	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Fluoranthene	**1300**		250	27	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Fluorene	**110**	**J**	250	33	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Hexachlorobenzene	ND		250	27	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Hexachlorobutadiene	ND		250	28	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Hexachlorocyclopentadiene	ND		1200	130	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Hexachloroethane	ND		1200	90	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Indeno[1,2,3-cd]pyrene	**600**		250	26	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Isophorone	ND		1200	94	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2-Methylnaphthalene	**210**	**J**	250	22	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2-Methylphenol	ND		1200	87	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Methylphenol, 3 & 4	ND		1200	120	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Naphthalene	**160**	**J**	250	22	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2-Nitroaniline	ND		6400	560	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
3-Nitroaniline	ND		6400	510	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
4-Nitroaniline	ND		6400	510	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Nitrobenzene	ND		2500	100	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2-Nitrophenol	ND		1200	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
4-Nitrophenol	ND		6400	460	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
N-Nitrosodi-n-propylamine	ND		250	29	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
N-Nitrosodiphenylamine	ND		1200	120	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2,2'-oxybis[1-chloropropane]	ND		250	27	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Pentachlorophenol	ND		1200	110	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Phenanthrene	**910**		250	40	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Phenol	**450**		250	30	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
Pyrene	**1400**		250	25	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
1,2,4,5-Tetrachlorobenzene	ND		1200	95	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2,3,4,6-Tetrachlorophenol	ND		1200	80	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2,4,5-Trichlorophenol	ND		1200	130	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20
2,4,6-Trichlorophenol	ND		1200	190	ug/Kg	☼	09/16/16 03:05	09/16/16 16:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*42 - 100*	*09/16/16 03:05*	*09/16/16 16:00*	*20*
2-Fluorophenol (Surr)	*39*		*21 - 107*	*09/16/16 03:05*	*09/16/16 16:00*	*20*
Nitrobenzene-d5 (Surr)	*59*		*35 - 109*	*09/16/16 03:05*	*09/16/16 16:00*	*20*
Phenol-d5 (Surr)	*55*		*29 - 105*	*09/16/16 03:05*	*09/16/16 16:00*	*20*
Terphenyl-d14 (Surr)	*75*		*36 - 113*	*09/16/16 03:05*	*09/16/16 16:00*	*20*
2,4,6-Tribromophenol (Surr)	*55*		*20 - 134*	*09/16/16 03:05*	*09/16/16 16:00*	*20*

Client Sample Results

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

TestAmerica Job ID: 180-58484-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		16	7.1	ug/Kg	☼	09/16/16 03:20	09/19/16 12:39	10
PCB-1221	ND		16	11	ug/Kg	☼	09/16/16 03:20	09/19/16 12:39	10
PCB-1232	ND		16	3.9	ug/Kg	☼	09/16/16 03:20	09/19/16 12:39	10
PCB-1242	ND		16	5.7	ug/Kg	☼	09/16/16 03:20	09/19/16 12:39	10
PCB-1248	**860**		16	3.6	ug/Kg	☼	09/16/16 03:20	09/19/16 12:39	10
PCB-1254	**630**		16	5.7	ug/Kg	☼	09/16/16 03:20	09/19/16 12:39	10
PCB-1260	**230**		16	5.3	ug/Kg	☼	09/16/16 03:20	09/19/16 12:39	10
PCB-1262	ND		16	4.8	ug/Kg	☼	09/16/16 03:20	09/19/16 12:39	10
PCB-1268	ND		16	2.9	ug/Kg	☼	09/16/16 03:20	09/19/16 12:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*39*		*20 - 150*	*09/16/16 03:20*	*09/19/16 12:39*	*10*
DCB Decachlorobiphenyl (Surr)	*36*		*20 - 150*	*09/16/16 03:20*	*09/19/16 12:39*	*10*
Tetrachloro-m-xylene (Surr)	*35*		*20 - 130*	*09/16/16 03:20*	*09/19/16 12:39*	*10*
Tetrachloro-m-xylene (Surr)	*32*		*20 - 130*	*09/16/16 03:20*	*09/19/16 12:39*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6800**		36	14	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Antimony	ND		1.8	0.63	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Arsenic	**8.8**		1.8	0.79	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Barium	**84**		36	9.6	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Beryllium	**0.48**	**J**	0.71	0.19	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Cadmium	**0.24**	**J**	0.89	0.20	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Calcium	**2700**		890	250	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Chromium	**420**		0.89	0.23	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Cobalt	**6.0**	**J**	8.9	2.0	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Copper	**150**		4.5	1.4	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Iron	**15000**		18	9.9	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Lead	**230**		1.8	0.59	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Magnesium	**1700**		890	230	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Manganese	**80**		2.7	0.72	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Nickel	**62**		7.1	1.6	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Potassium	**670**	**J**	890	210	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Selenium	**1.7**	**J**	1.8	0.71	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Silver	ND		0.89	0.30	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Sodium	**340**	**J**	890	250	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Thallium	ND		3.6	0.89	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Vanadium	**13**		8.9	2.8	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1
Zinc	**110**		3.6	1.8	mg/Kg	☼	09/12/16 10:28	09/21/16 11:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**	**B**	0.061	0.014	mg/Kg	☼	09/12/16 09:09	09/13/16 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**73.5**		0.1	0.1	%			09/15/16 11:57	1
Percent Solids	**26.5**		0.1	0.1	%			09/15/16 11:57	1
Total Organic Carbon - Duplicates	**260000**		3800	1900	mg/Kg	☼		09/13/16 11:46	1

Client Sample ID: STI-HP4-SED-A
Date Collected: 09/08/16 12:15
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-7
Matrix: Sediment
Percent Solids: 56.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**650**		300	28	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Acenaphthylene	**210**	**J**	300	34	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Acetophenone	ND		1500	120	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Anthracene	**1800**		300	29	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Atrazine	ND		1500	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Benzaldehyde	ND		1500	220	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Benzo[a]anthracene	**3200**		300	37	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Benzo[a]pyrene	**2800**		300	30	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Benzo[b]fluoranthene	**3500**		300	46	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Benzo[g,h,i]perylene	**2300**		300	29	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Benzo[k]fluoranthene	**1300**		300	60	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
1,1'-Biphenyl	ND		1500	130	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Bis(2-chloroethoxy)methane	ND		1500	97	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Bis(2-chloroethyl)ether	ND		300	40	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Bis(2-ethylhexyl) phthalate	**970**	**J**	3000	240	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
4-Bromophenyl phenyl ether	ND		1500	130	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Butyl benzyl phthalate	**290**	**J**	1500	200	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Caprolactam	ND		7500	1100	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Carbazole	**680**		300	27	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
4-Chloroaniline	ND		1500	120	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
4-Chloro-3-methylphenol	ND		1500	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2-Chloronaphthalene	ND		300	31	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2-Chlorophenol	ND		1500	120	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
4-Chlorophenyl phenyl ether	ND		1500	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Chrysene	**3000**		300	35	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Dibenz(a,h)anthracene	**650**		300	33	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Dibenzofuran	**750**	**J**	1500	150	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
3,3'-Dichlorobenzidine	ND		1500	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2,4-Dichlorophenol	ND		300	30	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Diethyl phthalate	ND		1500	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2,4-Dimethylphenol	ND		1500	230	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Dimethyl phthalate	ND		1500	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Di-n-butyl phthalate	ND		1500	190	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
4,6-Dinitro-2-methylphenol	ND		7500	590	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2,4-Dinitrophenol	ND		7500	1800	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2,4-Dinitrotoluene	ND		1500	120	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2,6-Dinitrotoluene	ND		1500	150	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Di-n-octyl phthalate	ND		1500	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
1,4-Dioxane	ND		3000	170	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Fluoranthene	**6800**		300	32	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Fluorene	**1400**		300	39	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Hexachlorobenzene	ND		300	31	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Hexachlorobutadiene	ND		300	33	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Hexachlorocyclopentadiene	ND		1500	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Hexachloroethane	ND		1500	110	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Indeno[1,2,3-cd]pyrene	**2100**		300	30	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Isophorone	ND		1500	110	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2-Methylnaphthalene	**480**		300	27	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2-Methylphenol	ND		1500	100	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50

Client Sample ID: STI-HP4-SED-A
Date Collected: 09/08/16 12:15
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-7
Matrix: Sediment
Percent Solids: 56.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		1500	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Naphthalene	**610**		300	25	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2-Nitroaniline	ND		7500	660	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
3-Nitroaniline	ND		7500	610	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
4-Nitroaniline	ND		7500	600	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Nitrobenzene	ND		3000	120	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2-Nitrophenol	ND		1500	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
4-Nitrophenol	ND		7500	540	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
N-Nitrosodi-n-propylamine	ND		300	35	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
N-Nitrosodiphenylamine	ND		1500	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2,2'-oxybis[1-chloropropane]	ND		300	32	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Pentachlorophenol	ND		1500	130	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Phenanthrene	**6800**		300	47	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Phenol	ND		300	35	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
Pyrene	**5500**		300	30	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
1,2,4,5-Tetrachlorobenzene	ND		1500	110	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2,3,4,6-Tetrachlorophenol	ND		1500	95	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2,4,5-Trichlorophenol	ND		1500	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50
2,4,6-Trichlorophenol	ND		1500	220	ug/Kg	☼	09/16/16 03:05	09/16/16 16:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D X*	*42 - 100*	*09/16/16 03:05*	*09/16/16 16:27*	*50*
2-Fluorophenol (Surr)	*0*	*D X*	*21 - 107*	*09/16/16 03:05*	*09/16/16 16:27*	*50*
Nitrobenzene-d5 (Surr)	*0*	*D X*	*35 - 109*	*09/16/16 03:05*	*09/16/16 16:27*	*50*
Phenol-d5 (Surr)	*0*	*D X*	*29 - 105*	*09/16/16 03:05*	*09/16/16 16:27*	*50*
Terphenyl-d14 (Surr)	*0*	*D X*	*36 - 113*	*09/16/16 03:05*	*09/16/16 16:27*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*D X*	*20 - 134*	*09/16/16 03:05*	*09/16/16 16:27*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		7.4	3.4	ug/Kg	☼	09/16/16 03:20	09/19/16 12:57	10
PCB-1221	ND		7.4	5.3	ug/Kg	☼	09/16/16 03:20	09/19/16 12:57	10
PCB-1232	ND		7.4	1.9	ug/Kg	☼	09/16/16 03:20	09/19/16 12:57	10
PCB-1242	ND		7.4	2.7	ug/Kg	☼	09/16/16 03:20	09/19/16 12:57	10
PCB-1248	**180**		7.4	1.7	ug/Kg	☼	09/16/16 03:20	09/19/16 12:57	10
PCB-1254	**81**		7.4	2.7	ug/Kg	☼	09/16/16 03:20	09/19/16 12:57	10
PCB-1260	**24**		7.4	2.5	ug/Kg	☼	09/16/16 03:20	09/19/16 12:57	10
PCB-1262	ND		7.4	2.3	ug/Kg	☼	09/16/16 03:20	09/19/16 12:57	10
PCB-1268	ND		7.4	1.4	ug/Kg	☼	09/16/16 03:20	09/19/16 12:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*54*		*20 - 150*	*09/16/16 03:20*	*09/19/16 12:57*	*10*
DCB Decachlorobiphenyl (Surr)	*63*		*20 - 150*	*09/16/16 03:20*	*09/19/16 12:57*	*10*
Tetrachloro-m-xylene (Surr)	*55*		*20 - 130*	*09/16/16 03:20*	*09/19/16 12:57*	*10*
Tetrachloro-m-xylene (Surr)	*53*		*20 - 130*	*09/16/16 03:20*	*09/19/16 12:57*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4000**		18	6.7	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Antimony	ND		0.88	0.31	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1

Client Sample ID: STI-HP4-SED-A

Lab Sample ID: 180-58484-7
Date Collected: 09/08/16 12:15
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 56.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		0.88	0.39	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Barium	41		18	4.7	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Beryllium	0.23	J	0.35	0.093	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Cadmium	0.57		0.44	0.099	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Calcium	2700		440	120	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Chromium	25		0.44	0.11	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Cobalt	4.0	J	4.4	0.99	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Copper	52		2.2	0.68	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Iron	14000		8.8	4.9	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Lead	43		0.88	0.29	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Magnesium	2000		440	110	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Manganese	77		1.3	0.36	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Nickel	49		3.5	0.80	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Potassium	270	J	440	110	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Selenium	1.0		0.88	0.35	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Silver	ND		0.44	0.15	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Sodium	140	J	440	120	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Thallium	ND		1.8	0.44	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Vanadium	9.4		4.4	1.4	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1
Zinc	170		1.8	0.90	mg/Kg	☼	09/12/16 10:28	09/21/16 11:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070	B	0.028	0.0062	mg/Kg	☼	09/12/16 09:09	09/13/16 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	43.8		0.1	0.1	%			09/15/16 11:57	1
Percent Solids	56.2		0.1	0.1	%			09/15/16 11:57	1
Total Organic Carbon - Duplicates	26000		1800	890	mg/Kg	☼		09/13/16 12:01	1

Client Sample ID: STI-HP4-SED-B

Lab Sample ID: 180-58484-8
Date Collected: 09/08/16 12:15
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 47.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	42	J	70	6.7	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Acenaphthylene	70		70	8.0	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Acetophenone	ND		350	29	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Anthracene	99		70	6.9	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Atrazine	ND		350	34	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Benzaldehyde	ND		350	53	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Benzo[a]anthracene	360		70	8.8	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Benzo[a]pyrene	360		70	7.0	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Benzo[b]fluoranthene	460		70	11	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Benzo[g,h,i]perylene	320		70	7.0	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Benzo[k]fluoranthene	160		70	14	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
1,1'-Biphenyl	ND		350	31	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Bis(2-chloroethoxy)methane	ND		350	23	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10

Client Sample ID: STI-HP4-SED-B
Date Collected: 09/08/16 12:15
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-8
Matrix: Sediment
Percent Solids: 47.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		70	9.4	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Bis(2-ethylhexyl) phthalate	ND		700	57	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
4-Bromophenyl phenyl ether	ND		350	31	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Butyl benzyl phthalate	ND		350	48	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Caprolactam	ND		1800	260	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Carbazole	**43**	**J**	70	6.5	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
4-Chloroaniline	ND		350	28	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
4-Chloro-3-methylphenol	ND		350	32	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2-Chloronaphthalene	ND		70	7.3	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2-Chlorophenol	ND		350	29	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
4-Chlorophenyl phenyl ether	ND		350	39	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Chrysene	**410**		70	8.4	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Dibenz(a,h)anthracene	**100**		70	7.8	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Dibenzofuran	**63**	**J**	350	35	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
3,3'-Dichlorobenzidine	ND		350	37	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2,4-Dichlorophenol	ND		70	7.0	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Diethyl phthalate	ND		350	38	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2,4-Dimethylphenol	ND		350	55	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Dimethyl phthalate	ND		350	38	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Di-n-butyl phthalate	ND		350	44	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
4,6-Dinitro-2-methylphenol	ND		1800	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2,4-Dinitrophenol	ND		1800	420	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2,4-Dinitrotoluene	ND		350	28	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2,6-Dinitrotoluene	ND		350	36	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Di-n-octyl phthalate	ND		350	37	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
1,4-Dioxane	ND		700	40	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Fluoranthene	**600**		70	7.5	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Fluorene	**64**	**J**	70	9.2	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Hexachlorobenzene	ND		70	7.5	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Hexachlorobutadiene	ND		70	7.9	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Hexachlorocyclopentadiene	ND		350	38	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Hexachloroethane	ND		350	25	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Indeno[1,2,3-cd]pyrene	**290**		70	7.2	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Isophorone	ND		350	26	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2-Methylnaphthalene	**190**		70	6.3	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2-Methylphenol	ND		350	25	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Methylphenol, 3 & 4	ND		350	34	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Naphthalene	**150**		70	6.0	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2-Nitroaniline	ND		1800	160	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
3-Nitroaniline	ND		1800	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
4-Nitroaniline	ND		1800	140	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Nitrobenzene	ND		700	29	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2-Nitrophenol	ND		350	39	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
4-Nitrophenol	ND		1800	130	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
N-Nitrosodi-n-propylamine	ND		70	8.2	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
N-Nitrosodiphenylamine	ND		350	32	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2,2'-oxybis[1-chloropropane]	ND		70	7.6	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Pentachlorophenol	ND		350	31	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Phenanthrene	**430**		70	11	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10

Client Sample ID: STI-HP4-SED-B

Date Collected: 09/08/16 12:15
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-8

Matrix: Sediment
Percent Solids: 47.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		70	8.3	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
Pyrene	**610**		70	7.1	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
1,2,4,5-Tetrachlorobenzene	ND		350	27	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2,3,4,6-Tetrachlorophenol	ND		350	23	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2,4,5-Trichlorophenol	ND		350	37	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10
2,4,6-Trichlorophenol	ND		350	53	ug/Kg	☼	09/16/16 03:05	09/16/16 16:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*42 - 100*	*09/16/16 03:05*	*09/16/16 16:54*	*10*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*09/16/16 03:05*	*09/16/16 16:54*	*10*
Nitrobenzene-d5 (Surr)	*70*		*35 - 109*	*09/16/16 03:05*	*09/16/16 16:54*	*10*
Phenol-d5 (Surr)	*59*		*29 - 105*	*09/16/16 03:05*	*09/16/16 16:54*	*10*
Terphenyl-d14 (Surr)	*61*		*36 - 113*	*09/16/16 03:05*	*09/16/16 16:54*	*10*
2,4,6-Tribromophenol (Surr)	*49*		*20 - 134*	*09/16/16 03:05*	*09/16/16 16:54*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		8.7	4.0	ug/Kg	☼	09/16/16 03:20	09/19/16 13:16	10
PCB-1221	ND		8.7	6.3	ug/Kg	☼	09/16/16 03:20	09/19/16 13:16	10
PCB-1232	ND		8.7	2.2	ug/Kg	☼	09/16/16 03:20	09/19/16 13:16	10
PCB-1242	ND		8.7	3.2	ug/Kg	☼	09/16/16 03:20	09/19/16 13:16	10
PCB-1248	**670**		8.7	2.0	ug/Kg	☼	09/16/16 03:20	09/19/16 13:16	10
PCB-1254	**320**		8.7	3.2	ug/Kg	☼	09/16/16 03:20	09/19/16 13:16	10
PCB-1260	**98**		8.7	3.0	ug/Kg	☼	09/16/16 03:20	09/19/16 13:16	10
PCB-1262	ND		8.7	2.7	ug/Kg	☼	09/16/16 03:20	09/19/16 13:16	10
PCB-1268	ND		8.7	1.6	ug/Kg	☼	09/16/16 03:20	09/19/16 13:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*20 - 150*	*09/16/16 03:20*	*09/19/16 13:16*	*10*
DCB Decachlorobiphenyl (Surr)	*75*		*20 - 150*	*09/16/16 03:20*	*09/19/16 13:16*	*10*
Tetrachloro-m-xylene (Surr)	*71*		*20 - 130*	*09/16/16 03:20*	*09/19/16 13:16*	*10*
Tetrachloro-m-xylene (Surr)	*64*		*20 - 130*	*09/16/16 03:20*	*09/19/16 13:16*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8100**		20	7.7	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Antimony	**0.55**	**J**	1.0	0.36	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Arsenic	**14**		1.0	0.45	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Barium	**110**		20	5.5	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Beryllium	**0.60**		0.41	0.11	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Cadmium	**0.35**	**J**	0.51	0.11	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Calcium	**2100**		510	140	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Chromium	**230**		0.51	0.13	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Cobalt	**8.8**		5.1	1.1	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Copper	**140**		2.5	0.78	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Iron	**20000**		10	5.6	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Lead	**200**		1.0	0.33	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Magnesium	**1900**		510	130	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Manganese	**110**		1.5	0.41	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Nickel	**87**		4.1	0.91	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1

Client Sample ID: STI-HP4-SED-B

Lab Sample ID: 180-58484-8
Date Collected: 09/08/16 12:15
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 47.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	600		510	120	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Selenium	1.9		1.0	0.40	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Silver	ND		0.51	0.17	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Sodium	190	J	510	140	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Thallium	ND		2.0	0.51	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Vanadium	20		5.1	1.6	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1
Zinc	210		2.0	1.0	mg/Kg	☼	09/12/16 10:28	09/21/16 11:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15	B	0.033	0.0074	mg/Kg	☼	09/12/16 09:09	09/13/16 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	52.5		0.1	0.1	%			09/15/16 11:57	1
Percent Solids	47.5		0.1	0.1	%			09/15/16 11:57	1
Total Organic Carbon - Duplicates	130000		2100	1100	mg/Kg	☼		09/13/16 12:28	1
Total Organic Carbon - Duplicates	200000		2100	1100	mg/Kg	☼		09/20/16 12:04	1

Client Sample ID: STI-FD-1

Lab Sample ID: 180-58484-9
Date Collected: 09/08/16 00:00
Matrix: Sediment
Date Received: 09/09/16 09:35
Percent Solids: 39.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	280	J	340	33	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Acenaphthylene	170	J	340	39	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Acetophenone	ND		1700	140	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Anthracene	780		340	33	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Atrazine	ND		1700	170	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Benzaldehyde	ND		1700	250	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Benzo[a]anthracene	1700		340	42	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Benzo[a]pyrene	1800		340	34	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Benzo[b]fluoranthene	2300		340	53	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Benzo[g,h,i]perylene	1800		340	34	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Benzo[k]fluoranthene	680		340	69	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
1,1'-Biphenyl	ND		1700	150	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Bis(2-chloroethoxy)methane	ND		1700	110	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Bis(2-chloroethyl)ether	ND		340	45	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Bis(2-ethylhexyl) phthalate	ND		3400	270	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
4-Bromophenyl phenyl ether	ND		1700	150	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Butyl benzyl phthalate	ND		1700	230	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Caprolactam	ND		8600	1300	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Carbazole	270	J	340	31	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
4-Chloroaniline	ND		1700	140	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
4-Chloro-3-methylphenol	ND		1700	160	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2-Chloronaphthalene	ND		340	35	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2-Chlorophenol	ND		1700	140	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
4-Chlorophenyl phenyl ether	ND		1700	190	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Chrysene	1800		340	40	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40

Client Sample ID: STI-FD-1
Date Collected: 09/08/16 00:00
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-9
Matrix: Sediment
Percent Solids: 39.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**350**		340	38	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Dibenzofuran	**190**	**J**	1700	170	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
3,3'-Dichlorobenzidine	ND		1700	180	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2,4-Dichlorophenol	ND		340	34	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Diethyl phthalate	ND		1700	190	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2,4-Dimethylphenol	ND		1700	270	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Dimethyl phthalate	ND		1700	180	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Di-n-butyl phthalate	ND		1700	210	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
4,6-Dinitro-2-methylphenol	ND		8600	680	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2,4-Dinitrophenol	ND		8600	2000	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2,4-Dinitrotoluene	ND		1700	140	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2,6-Dinitrotoluene	ND		1700	170	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Di-n-octyl phthalate	ND		1700	180	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
1,4-Dioxane	ND		3400	190	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Fluoranthene	**3400**		340	36	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Fluorene	**330**	**J**	340	45	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Hexachlorobenzene	ND		340	36	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Hexachlorobutadiene	ND		340	38	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Hexachlorocyclopentadiene	ND		1700	180	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Hexachloroethane	ND		1700	120	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Indeno[1,2,3-cd]pyrene	**1300**		340	35	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Isophorone	ND		1700	130	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2-Methylnaphthalene	**290**	**J**	340	30	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2-Methylphenol	ND		1700	120	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Methylphenol, 3 & 4	**300**	**J**	1700	170	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Naphthalene	**230**	**J**	340	29	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2-Nitroaniline	ND		8600	760	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
3-Nitroaniline	ND		8600	700	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
4-Nitroaniline	ND		8600	690	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Nitrobenzene	ND		3400	140	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2-Nitrophenol	ND		1700	190	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
4-Nitrophenol	ND		8600	620	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
N-Nitrosodi-n-propylamine	ND		340	40	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
N-Nitrosodiphenylamine	ND		1700	160	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2,2'-oxybis[1-chloropropane]	ND		340	37	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Pentachlorophenol	ND		1700	150	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Phenanthrene	**2700**		340	54	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Phenol	ND		340	40	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
Pyrene	**3700**		340	34	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
1,2,4,5-Tetrachlorobenzene	ND		1700	130	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2,3,4,6-Tetrachlorophenol	ND		1700	110	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2,4,5-Trichlorophenol	ND		1700	180	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40
2,4,6-Trichlorophenol	ND		1700	250	ug/Kg	☼	09/16/16 03:05	09/16/16 17:21	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D X*	*42 - 100*	*09/16/16 03:05*	*09/16/16 17:21*	*40*
2-Fluorophenol (Surr)	*0*	*D X*	*21 - 107*	*09/16/16 03:05*	*09/16/16 17:21*	*40*
Nitrobenzene-d5 (Surr)	*0*	*D X*	*35 - 109*	*09/16/16 03:05*	*09/16/16 17:21*	*40*
Phenol-d5 (Surr)	*0*	*D X*	*29 - 105*	*09/16/16 03:05*	*09/16/16 17:21*	*40*
Terphenyl-d14 (Surr)	*0*	*D X*	*36 - 113*	*09/16/16 03:05*	*09/16/16 17:21*	*40*

Client Sample ID: STI-FD-1
Date Collected: 09/08/16 00:00
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-9
Matrix: Sediment
Percent Solids: 39.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*0*	*D X*	*20 - 134*	*09/16/16 03:05*	*09/16/16 17:21*	*40*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		11	4.9	ug/Kg	☼	09/16/16 03:20	09/19/16 13:35	10
PCB-1221	ND		11	7.7	ug/Kg	☼	09/16/16 03:20	09/19/16 13:35	10
PCB-1232	ND		11	2.7	ug/Kg	☼	09/16/16 03:20	09/19/16 13:35	10
PCB-1242	ND		11	3.9	ug/Kg	☼	09/16/16 03:20	09/19/16 13:35	10
PCB-1248	**240**		11	2.5	ug/Kg	☼	09/16/16 03:20	09/19/16 13:35	10
PCB-1254	**130**		11	3.9	ug/Kg	☼	09/16/16 03:20	09/19/16 13:35	10
PCB-1260	**45**		11	3.6	ug/Kg	☼	09/16/16 03:20	09/19/16 13:35	10
PCB-1262	ND		11	3.3	ug/Kg	☼	09/16/16 03:20	09/19/16 13:35	10
PCB-1268	ND		11	2.0	ug/Kg	☼	09/16/16 03:20	09/19/16 13:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*61*		*20 - 150*	*09/16/16 03:20*	*09/19/16 13:35*	*10*
DCB Decachlorobiphenyl (Surr)	*63*		*20 - 150*	*09/16/16 03:20*	*09/19/16 13:35*	*10*
Tetrachloro-m-xylene (Surr)	*52*		*20 - 130*	*09/16/16 03:20*	*09/19/16 13:35*	*10*
Tetrachloro-m-xylene (Surr)	*49*		*20 - 130*	*09/16/16 03:20*	*09/19/16 13:35*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		24	9.2	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Antimony	**0.53**	**J**	1.2	0.43	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Arsenic	**13**		1.2	0.53	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Barium	**98**		24	6.5	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Beryllium	**0.62**		0.48	0.13	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Cadmium	**0.61**		0.60	0.14	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Calcium	**2900**		600	170	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Chromium	**88**		0.60	0.16	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Cobalt	**9.0**		6.0	1.4	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Copper	**130**		3.0	0.93	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Iron	**22000**		12	6.7	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Lead	**150**		1.2	0.40	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Magnesium	**2300**		600	150	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Manganese	**100**		1.8	0.49	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Nickel	**70**		4.8	1.1	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Potassium	**770**		600	140	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Selenium	**1.6**		1.2	0.48	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Silver	ND		0.60	0.20	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Sodium	**250**	**J**	600	170	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Thallium	ND		2.4	0.60	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Vanadium	**17**		6.0	1.9	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1
Zinc	**180**		2.4	1.2	mg/Kg	☼	09/12/16 10:28	09/21/16 11:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**	**B**	0.042	0.0093	mg/Kg	☼	09/12/16 09:09	09/13/16 12:43	1

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

TestAmerica Job ID: 180-58484-1

Client Sample ID: STI-FD-1
Date Collected: 09/08/16 00:00
Date Received: 09/09/16 09:35

Lab Sample ID: 180-58484-9
Matrix: Sediment
Percent Solids: 39.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	60.9		0.1	0.1	%			09/15/16 11:57	1
Percent Solids	39.1		0.1	0.1	%			09/15/16 11:57	1
Total Organic Carbon - Duplicates	160000		2600	1300	mg/Kg	☼		09/13/16 12:43	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-188143/1-A
Matrix: Sediment
Analysis Batch: 188373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.4	0.32	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Acenaphthylene	ND		3.4	0.38	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Acetophenone	ND		17	1.4	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Anthracene	ND		3.4	0.33	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Atrazine	ND		17	1.6	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Benzaldehyde	ND		17	2.5	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Benzo[a]anthracene	ND		3.4	0.42	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Benzo[a]pyrene	ND		3.4	0.33	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Benzo[b]fluoranthene	ND		3.4	0.52	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Benzo[g,h,i]perylene	ND		3.4	0.33	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Benzo[k]fluoranthene	ND		3.4	0.67	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
1,1'-Biphenyl	ND		17	1.5	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Bis(2-chloroethoxy)methane	ND		17	1.1	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Bis(2-chloroethyl)ether	ND		3.4	0.45	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Bis(2-ethylhexyl) phthalate	ND		33	2.7	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
4-Bromophenyl phenyl ether	ND		17	1.5	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Butyl benzyl phthalate	ND		17	2.3	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Caprolactam	ND		85	13	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Carbazole	ND		3.4	0.31	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
4-Chloroaniline	ND		17	1.3	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
4-Chloro-3-methylphenol	ND		17	1.5	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2-Chloronaphthalene	ND		3.4	0.35	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2-Chlorophenol	ND		17	1.4	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
4-Chlorophenyl phenyl ether	ND		17	1.9	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Chrysene	ND		3.4	0.40	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Dibenz(a,h)anthracene	ND		3.4	0.37	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Dibenzofuran	ND		17	1.6	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
3,3'-Dichlorobenzidine	ND		17	1.8	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2,4-Dichlorophenol	ND		3.4	0.33	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Diethyl phthalate	ND		17	1.8	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2,4-Dimethylphenol	ND		17	2.6	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Dimethyl phthalate	ND		17	1.8	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Di-n-butyl phthalate	ND		17	2.1	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
4,6-Dinitro-2-methylphenol	ND		85	6.7	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2,4-Dinitrophenol	ND		85	20	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2,4-Dinitrotoluene	ND		17	1.3	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2,6-Dinitrotoluene	ND		17	1.7	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Di-n-octyl phthalate	ND		17	1.8	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
1,4-Dioxane	ND		33	1.9	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Fluoranthene	ND		3.4	0.36	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Fluorene	ND		3.4	0.44	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Hexachlorobenzene	ND		3.4	0.36	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Hexachlorobutadiene	ND		3.4	0.37	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Hexachlorocyclopentadiene	ND		17	1.8	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Hexachloroethane	ND		17	1.2	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Indeno[1,2,3-cd]pyrene	ND		3.4	0.34	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Isophorone	ND		17	1.3	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2-Methylnaphthalene	ND		3.4	0.30	ug/Kg		09/16/16 03:05	09/19/16 09:51	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-188143/1-A
Matrix: Sediment
Analysis Batch: 188373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		17	1.2	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Methylphenol, 3 & 4	ND		17	1.6	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Naphthalene	ND		3.4	0.29	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2-Nitroaniline	ND		85	7.5	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
3-Nitroaniline	ND		85	6.9	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
4-Nitroaniline	ND		85	6.8	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Nitrobenzene	ND		33	1.4	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2-Nitrophenol	ND		17	1.8	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
4-Nitrophenol	ND		85	6.1	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
N-Nitrosodi-n-propylamine	ND		3.4	0.39	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
N-Nitrosodiphenylamine	ND		17	1.5	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2,2'-oxybis[1-chloropropane]	ND		3.4	0.36	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Pentachlorophenol	ND		17	1.5	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Phenanthrene	ND		3.4	0.53	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Phenol	ND		3.4	0.39	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
Pyrene	ND		3.4	0.34	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
1,2,4,5-Tetrachlorobenzene	ND		17	1.3	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2,3,4,6-Tetrachlorophenol	ND		17	1.1	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2,4,5-Trichlorophenol	ND		17	1.8	ug/Kg		09/16/16 03:05	09/19/16 09:51	1
2,4,6-Trichlorophenol	ND		17	2.5	ug/Kg		09/16/16 03:05	09/19/16 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*42 - 100*	*09/16/16 03:05*	*09/19/16 09:51*	*1*
2-Fluorophenol (Surr)	*61*		*21 - 107*	*09/16/16 03:05*	*09/19/16 09:51*	*1*
Nitrobenzene-d5 (Surr)	*67*		*35 - 109*	*09/16/16 03:05*	*09/19/16 09:51*	*1*
Phenol-d5 (Surr)	*59*		*29 - 105*	*09/16/16 03:05*	*09/19/16 09:51*	*1*
Terphenyl-d14 (Surr)	*75*		*36 - 113*	*09/16/16 03:05*	*09/19/16 09:51*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 134*	*09/16/16 03:05*	*09/19/16 09:51*	*1*

Lab Sample ID: LCS 180-188143/2-A
Matrix: Sediment
Analysis Batch: 188161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	211		ug/Kg		63	39 - 100
Acenaphthylene	333	202		ug/Kg		61	42 - 100
Acetophenone	333	203		ug/Kg		61	31 - 100
Anthracene	333	205		ug/Kg		61	43 - 100
Atrazine	333	175		ug/Kg		53	21 - 108
Benzaldehyde	333	171		ug/Kg		51	10 - 133
Benzo[a]anthracene	333	208		ug/Kg		62	43 - 100
Benzo[a]pyrene	333	224		ug/Kg		67	43 - 100
Benzo[b]fluoranthene	333	212		ug/Kg		64	40 - 100
Benzo[g,h,i]perylene	333	261		ug/Kg		78	41 - 102
Benzo[k]fluoranthene	333	218		ug/Kg		66	44 - 100
1,1'-Biphenyl	333	209		ug/Kg		63	40 - 100
Bis(2-chloroethoxy)methane	333	213		ug/Kg		64	39 - 100
Bis(2-chloroethyl)ether	333	210		ug/Kg		63	36 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-188143/2-A
Matrix: Sediment
Analysis Batch: 188161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	333	203		ug/Kg		61	43 - 106
4-Bromophenyl phenyl ether	333	243		ug/Kg		73	44 - 100
Butyl benzyl phthalate	333	201		ug/Kg		60	42 - 108
Caprolactam	333	212		ug/Kg		64	37 - 112
Carbazole	333	192		ug/Kg		58	42 - 100
4-Chloroaniline	333	192		ug/Kg		58	38 - 100
4-Chloro-3-methylphenol	333	224		ug/Kg		67	40 - 104
2-Chloronaphthalene	333	212		ug/Kg		64	39 - 100
2-Chlorophenol	333	207		ug/Kg		62	38 - 100
4-Chlorophenyl phenyl ether	333	238		ug/Kg		71	43 - 100
Chrysene	333	205		ug/Kg		62	44 - 100
Dibenz(a,h)anthracene	333	258		ug/Kg		77	40 - 104
Dibenzofuran	333	208		ug/Kg		62	42 - 100
3,3'-Dichlorobenzidine	333	208		ug/Kg		62	30 - 103
2,4-Dichlorophenol	333	218		ug/Kg		65	40 - 100
Diethyl phthalate	333	226		ug/Kg		68	41 - 101
2,4-Dimethylphenol	333	231		ug/Kg		69	38 - 100
Dimethyl phthalate	333	222		ug/Kg		67	44 - 100
Di-n-butyl phthalate	333	203		ug/Kg		61	44 - 105
4,6-Dinitro-2-methylphenol	667	457		ug/Kg		69	45 - 102
2,4-Dinitrophenol	667	403		ug/Kg		61	36 - 103
2,4-Dinitrotoluene	333	226		ug/Kg		68	42 - 110
2,6-Dinitrotoluene	333	221		ug/Kg		66	43 - 105
Di-n-octyl phthalate	333	189		ug/Kg		57	41 - 103
1,4-Dioxane	333	240		ug/Kg		72	19 - 107
Fluoranthene	333	207		ug/Kg		62	41 - 104
Fluorene	333	207		ug/Kg		62	41 - 100
Hexachlorobenzene	333	221		ug/Kg		66	43 - 100
Hexachlorobutadiene	333	296		ug/Kg		89	35 - 100
Hexachlorocyclopentadiene	333	200		ug/Kg		60	32 - 102
Hexachloroethane	333	227		ug/Kg		68	35 - 100
Indeno[1,2,3-cd]pyrene	333	259		ug/Kg		78	41 - 104
Isophorone	333	212		ug/Kg		64	36 - 102
2-Methylnaphthalene	333	209		ug/Kg		63	39 - 100
2-Methylphenol	333	214		ug/Kg		64	38 - 100
Methylphenol, 3 & 4	333	206		ug/Kg		62	40 - 100
Naphthalene	333	202		ug/Kg		61	38 - 100
2-Nitroaniline	333	243		ug/Kg		73	33 - 118
3-Nitroaniline	333	191		ug/Kg		57	42 - 105
4-Nitroaniline	333	195		ug/Kg		58	33 - 115
Nitrobenzene	333	237		ug/Kg		71	34 - 100
2-Nitrophenol	333	223		ug/Kg		67	40 - 103
4-Nitrophenol	667	509		ug/Kg		76	26 - 133
N-Nitrosodi-n-propylamine	333	235		ug/Kg		70	37 - 100
N-Nitrosodiphenylamine	333	198		ug/Kg		59	41 - 100
2,2'-oxybis[1-chloropropane]	333	181		ug/Kg		54	23 - 104
Pentachlorophenol	667	306		ug/Kg		46	34 - 102
Phenanthrene	333	202		ug/Kg		61	41 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-188143/2-A
Matrix: Sediment
Analysis Batch: 188161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenol			333	213		ug/Kg		64	36 - 100		
Pyrene			333	210		ug/Kg		63	42 - 100		
1,2,4,5-Tetrachlorobenzene			333	253		ug/Kg		76	38 - 100		
2,3,4,6-Tetrachlorophenol			333	216		ug/Kg		65	41 - 100		
2,4,5-Trichlorophenol			333	241		ug/Kg		72	42 - 100		
2,4,6-Trichlorophenol			333	234		ug/Kg		70	41 - 103		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*42 - 100*
2-Fluorophenol (Surr)	*70*		*21 - 107*
Nitrobenzene-d5 (Surr)	*72*		*35 - 109*
Phenol-d5 (Surr)	*65*		*29 - 105*
Terphenyl-d14 (Surr)	*59*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*

Lab Sample ID: 180-58484-3MS
Matrix: Sediment
Analysis Batch: 188161

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA
Prep Batch: 188143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene	50	J	534	465		ug/Kg	☼	78	39 - 100		
Acenaphthylene	31	J	534	462		ug/Kg	☼	81	42 - 100		
Acetophenone	ND		534	415		ug/Kg	☼	78	31 - 100		
Anthracene	97		534	518		ug/Kg	☼	79	43 - 100		
Atrazine	ND		534	338		ug/Kg	☼	63	21 - 108		
Benzaldehyde	ND		534	250	J	ug/Kg	☼	47	10 - 133		
Benzo[a]anthracene	330		534	785		ug/Kg	☼	85	43 - 100		
Benzo[a]pyrene	330		534	792		ug/Kg	☼	85	43 - 100		
Benzo[b]fluoranthene	400		534	806		ug/Kg	☼	77	40 - 100		
Benzo[g,h,i]perylene	270	F1	534	831	F1	ug/Kg	☼	106	41 - 102		
Benzo[k]fluoranthene	160		534	633		ug/Kg	☼	89	44 - 100		
1,1'-Biphenyl	ND		534	448		ug/Kg	☼	84	40 - 100		
Bis(2-chloroethoxy)methane	ND		534	430		ug/Kg	☼	80	39 - 100		
Bis(2-chloroethyl)ether	ND		534	419		ug/Kg	☼	78	36 - 100		
Bis(2-ethylhexyl) phthalate	ND		534	412	J	ug/Kg	☼	77	43 - 106		
4-Bromophenyl phenyl ether	ND		534	530		ug/Kg	☼	99	44 - 100		
Butyl benzyl phthalate	ND		534	404		ug/Kg	☼	76	42 - 108		
Caprolactam	ND		534	424	J	ug/Kg	☼	79	37 - 112		
Carbazole	50	J	534	441		ug/Kg	☼	73	42 - 100		
4-Chloroaniline	ND		534	329		ug/Kg	☼	62	38 - 100		
4-Chloro-3-methylphenol	ND		534	493		ug/Kg	☼	92	40 - 104		
2-Chloronaphthalene	ND		534	453		ug/Kg	☼	85	39 - 100		
2-Chlorophenol	ND		534	394		ug/Kg	☼	74	38 - 100		
4-Chlorophenyl phenyl ether	ND		534	486		ug/Kg	☼	91	43 - 100		
Chrysene	370		534	776		ug/Kg	☼	76	44 - 100		
Dibenz(a,h)anthracene	73		534	581		ug/Kg	☼	95	40 - 104		
Dibenzofuran	37	J	534	472		ug/Kg	☼	81	42 - 100		
3,3'-Dichlorobenzidine	ND		534	195	J	ug/Kg	☼	37	30 - 103		

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-58484-3MS
Matrix: Sediment
Analysis Batch: 188161

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA
Prep Batch: 188143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	ND		534	455		ug/Kg	☼	85	40 - 100
Diethyl phthalate	ND		534	493		ug/Kg	☼	92	41 - 101
2,4-Dimethylphenol	ND		534	505		ug/Kg	☼	94	38 - 100
Dimethyl phthalate	ND		534	501		ug/Kg	☼	94	44 - 100
Di-n-butyl phthalate	ND		534	372		ug/Kg	☼	70	44 - 105
4,6-Dinitro-2-methylphenol	ND		1070	753	J	ug/Kg	☼	70	45 - 102
2,4-Dinitrophenol	ND	F1	1070	ND	F1	ug/Kg	☼	0	36 - 103
2,4-Dinitrotoluene	ND		534	517		ug/Kg	☼	97	42 - 110
2,6-Dinitrotoluene	ND		534	461		ug/Kg	☼	86	43 - 105
Di-n-octyl phthalate	ND		534	415		ug/Kg	☼	78	41 - 103
1,4-Dioxane	ND		534	317	J	ug/Kg	☼	59	19 - 107
Fluoranthene	590		534	931		ug/Kg	☼	64	41 - 104
Fluorene	60		534	484		ug/Kg	☼	79	41 - 100
Hexachlorobenzene	ND		534	458		ug/Kg	☼	86	43 - 100
Hexachlorobutadiene	ND	F1	534	560	F1	ug/Kg	☼	105	35 - 100
Hexachlorocyclopentadiene	ND	F1	534	ND	F1	ug/Kg	☼	0	32 - 102
Hexachloroethane	ND		534	355		ug/Kg	☼	66	35 - 100
Indeno[1,2,3-cd]pyrene	210	F1	534	780	F1	ug/Kg	☼	107	41 - 104
Isophorone	ND		534	431		ug/Kg	☼	81	36 - 102
2-Methylnaphthalene	44	J	534	465		ug/Kg	☼	79	39 - 100
2-Methylphenol	ND		534	432		ug/Kg	☼	81	38 - 100
Methylphenol, 3 & 4	37	J	534	466		ug/Kg	☼	80	40 - 100
Naphthalene	42	J	534	435		ug/Kg	☼	74	38 - 100
2-Nitroaniline	ND		534	515	J	ug/Kg	☼	96	33 - 118
3-Nitroaniline	ND		534	425	J	ug/Kg	☼	79	42 - 105
4-Nitroaniline	ND		534	379	J	ug/Kg	☼	71	33 - 115
Nitrobenzene	ND		534	484	J	ug/Kg	☼	91	34 - 100
2-Nitrophenol	ND		534	455		ug/Kg	☼	85	40 - 103
4-Nitrophenol	ND		1070	874	J	ug/Kg	☼	82	26 - 133
N-Nitrosodi-n-propylamine	ND		534	489		ug/Kg	☼	91	37 - 100
N-Nitrosodiphenylamine	ND		534	486		ug/Kg	☼	91	41 - 100
2,2'-oxybis[1-chloropropane]	ND		534	368		ug/Kg	☼	69	23 - 104
Pentachlorophenol	ND	F1 F2	1070	106	J F1	ug/Kg	☼	10	34 - 102
Phenanthrene	430		534	885		ug/Kg	☼	85	41 - 100
Phenol	ND		534	462		ug/Kg	☼	87	36 - 100
Pyrene	600		534	970		ug/Kg	☼	69	42 - 100
1,2,4,5-Tetrachlorobenzene	ND	F1	534	527		ug/Kg	☼	99	38 - 100
2,3,4,6-Tetrachlorophenol	ND		534	371		ug/Kg	☼	69	41 - 100
2,4,5-Trichlorophenol	ND		534	479		ug/Kg	☼	90	42 - 100
2,4,6-Trichlorophenol	ND		534	470		ug/Kg	☼	88	41 - 103

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*42 - 100*
2-Fluorophenol (Surr)	*74*		*21 - 107*
Nitrobenzene-d5 (Surr)	*92*		*35 - 109*
Phenol-d5 (Surr)	*84*		*29 - 105*
Terphenyl-d14 (Surr)	*77*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 134*

Lab Sample ID: 180-58484-3MSD
Matrix: Sediment
Analysis Batch: 188161

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA
Prep Batch: 188143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	50	J	538	501		ug/Kg	☼	84	39 - 100	8	20
Acenaphthylene	31	J	538	461		ug/Kg	☼	80	42 - 100	0	20
Acetophenone	ND		538	437		ug/Kg	☼	81	31 - 100	5	20
Anthracene	97		538	507		ug/Kg	☼	76	43 - 100	2	20
Atrazine	ND		538	334		ug/Kg	☼	62	21 - 108	1	20
Benzaldehyde	ND		538	256	J	ug/Kg	☼	48	10 - 133	2	20
Benzo[a]anthracene	330		538	786		ug/Kg	☼	84	43 - 100	0	20
Benzo[a]pyrene	330		538	808		ug/Kg	☼	88	43 - 100	2	20
Benzo[b]fluoranthene	400		538	847		ug/Kg	☼	84	40 - 100	5	20
Benzo[g,h,i]perylene	270	F1	538	895	F1	ug/Kg	☼	117	41 - 102	7	20
Benzo[k]fluoranthene	160		538	649		ug/Kg	☼	92	44 - 100	3	20
1,1'-Biphenyl	ND		538	461		ug/Kg	☼	86	40 - 100	3	20
Bis(2-chloroethoxy)methane	ND		538	450		ug/Kg	☼	84	39 - 100	5	20
Bis(2-chloroethyl)ether	ND		538	446		ug/Kg	☼	83	36 - 100	6	20
Bis(2-ethylhexyl) phthalate	ND		538	415	J	ug/Kg	☼	77	43 - 106	1	20
4-Bromophenyl phenyl ether	ND		538	522		ug/Kg	☼	97	44 - 100	2	20
Butyl benzyl phthalate	ND		538	396		ug/Kg	☼	74	42 - 108	2	20
Caprolactam	ND		538	446	J	ug/Kg	☼	83	37 - 112	5	20
Carbazole	50	J	538	452		ug/Kg	☼	75	42 - 100	2	20
4-Chloroaniline	ND		538	325		ug/Kg	☼	61	38 - 100	1	20
4-Chloro-3-methylphenol	ND		538	508		ug/Kg	☼	94	40 - 104	3	20
2-Chloronaphthalene	ND		538	464		ug/Kg	☼	86	39 - 100	2	20
2-Chlorophenol	ND		538	414		ug/Kg	☼	77	38 - 100	5	20
4-Chlorophenyl phenyl ether	ND		538	493		ug/Kg	☼	92	43 - 100	1	22
Chrysene	370		538	790		ug/Kg	☼	78	44 - 100	2	20
Dibenz(a,h)anthracene	73		538	612		ug/Kg	☼	100	40 - 104	5	26
Dibenzofuran	37	J	538	505		ug/Kg	☼	87	42 - 100	7	23
3,3'-Dichlorobenzidine	ND		538	190	J	ug/Kg	☼	35	30 - 103	3	21
2,4-Dichlorophenol	ND		538	464		ug/Kg	☼	86	40 - 100	2	20
Diethyl phthalate	ND		538	508		ug/Kg	☼	94	41 - 101	3	20
2,4-Dimethylphenol	ND		538	506		ug/Kg	☼	94	38 - 100	0	20
Dimethyl phthalate	ND		538	512		ug/Kg	☼	95	44 - 100	2	23
Di-n-butyl phthalate	ND		538	370		ug/Kg	☼	69	44 - 105	1	20
4,6-Dinitro-2-methylphenol	ND		1080	736	J	ug/Kg	☼	68	45 - 102	2	20
2,4-Dinitrophenol	ND	F1	1080	ND	F1	ug/Kg	☼	0	36 - 103	NC	23
2,4-Dinitrotoluene	ND		538	513		ug/Kg	☼	95	42 - 110	1	21
2,6-Dinitrotoluene	ND		538	491		ug/Kg	☼	91	43 - 105	6	20
Di-n-octyl phthalate	ND		538	355		ug/Kg	☼	66	41 - 103	16	20
1,4-Dioxane	ND		538	363	J	ug/Kg	☼	67	19 - 107	13	20
Fluoranthene	590		538	937		ug/Kg	☼	65	41 - 104	1	20
Fluorene	60		538	514		ug/Kg	☼	84	41 - 100	6	21
Hexachlorobenzene	ND		538	492		ug/Kg	☼	91	43 - 100	7	21
Hexachlorobutadiene	ND	F1	538	574	F1	ug/Kg	☼	107	35 - 100	3	20
Hexachlorocyclopentadiene	ND	F1	538	ND	F1	ug/Kg	☼	0	32 - 102	NC	30
Hexachloroethane	ND		538	357		ug/Kg	☼	66	35 - 100	1	20
Indeno[1,2,3-cd]pyrene	210	F1	538	829	F1	ug/Kg	☼	116	41 - 104	6	25
Isophorone	ND		538	446		ug/Kg	☼	83	36 - 102	3	20
2-Methylnaphthalene	44	J	538	474		ug/Kg	☼	80	39 - 100	2	21
2-Methylphenol	ND		538	439		ug/Kg	☼	82	38 - 100	1	20
Methylphenol, 3 & 4	37	J	538	460		ug/Kg	☼	79	40 - 100	1	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-58484-3MSD
Matrix: Sediment
Analysis Batch: 188161

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA
Prep Batch: 188143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	42	J	538	447		ug/Kg	☼	75	38 - 100	3	20
2-Nitroaniline	ND		538	557	J	ug/Kg	☼	104	33 - 118	8	23
3-Nitroaniline	ND		538	412	J	ug/Kg	☼	77	42 - 105	3	20
4-Nitroaniline	ND		538	447	J	ug/Kg	☼	83	33 - 115	16	20
Nitrobenzene	ND		538	512	J	ug/Kg	☼	95	34 - 100	6	20
2-Nitrophenol	ND		538	430		ug/Kg	☼	80	40 - 103	6	22
4-Nitrophenol	ND		1080	923	J	ug/Kg	☼	86	26 - 133	5	20
N-Nitrosodi-n-propylamine	ND		538	499		ug/Kg	☼	93	37 - 100	2	20
N-Nitrosodiphenylamine	ND		538	468		ug/Kg	☼	87	41 - 100	4	20
2,2'-oxybis[1-chloropropane]	ND		538	368		ug/Kg	☼	68	23 - 104	0	20
Pentachlorophenol	ND	F1 F2	1080	140	J F1 F2	ug/Kg	☼	13	34 - 102	27	20
Phenanthrene	430		538	881		ug/Kg	☼	84	41 - 100	0	20
Phenol	ND		538	461		ug/Kg	☼	86	36 - 100	0	20
Pyrene	600		538	967		ug/Kg	☼	68	42 - 100	0	21
1,2,4,5-Tetrachlorobenzene	ND	F1	538	546	F1	ug/Kg	☼	102	38 - 100	4	20
2,3,4,6-Tetrachlorophenol	ND		538	423		ug/Kg	☼	79	41 - 100	13	25
2,4,5-Trichlorophenol	ND		538	503		ug/Kg	☼	94	42 - 100	5	22
2,4,6-Trichlorophenol	ND		538	478		ug/Kg	☼	89	41 - 103	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*42 - 100*
2-Fluorophenol (Surr)	*80*		*21 - 107*
Nitrobenzene-d5 (Surr)	*91*		*35 - 109*
Phenol-d5 (Surr)	*83*		*29 - 105*
Terphenyl-d14 (Surr)	*73*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*71*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-188144/1-C
Matrix: Sediment
Analysis Batch: 188361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.19	ug/Kg		09/16/16 03:20	09/19/16 10:08	1
PCB-1221	ND		0.42	0.30	ug/Kg		09/16/16 03:20	09/19/16 10:08	1
PCB-1232	ND		0.42	0.10	ug/Kg		09/16/16 03:20	09/19/16 10:08	1
PCB-1242	ND		0.42	0.15	ug/Kg		09/16/16 03:20	09/19/16 10:08	1
PCB-1248	ND		0.42	0.098	ug/Kg		09/16/16 03:20	09/19/16 10:08	1
PCB-1254	ND		0.42	0.15	ug/Kg		09/16/16 03:20	09/19/16 10:08	1
PCB-1260	ND		0.42	0.14	ug/Kg		09/16/16 03:20	09/19/16 10:08	1
PCB-1262	ND		0.42	0.13	ug/Kg		09/16/16 03:20	09/19/16 10:08	1
PCB-1268	ND		0.42	0.078	ug/Kg		09/16/16 03:20	09/19/16 10:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*20 - 150*	*09/16/16 03:20*	*09/19/16 10:08*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*20 - 150*	*09/16/16 03:20*	*09/19/16 10:08*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 180-188144/1-C
Matrix: Sediment
Analysis Batch: 188361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188144

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	91		20 - 130	09/16/16 03:20	09/19/16 10:08	1
Tetrachloro-m-xylene (Surr)	92		20 - 130	09/16/16 03:20	09/19/16 10:08	1

Lab Sample ID: LCS 180-188144/2-C
Matrix: Sediment
Analysis Batch: 188361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188144

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	33.3	23.1		ug/Kg		69	39 - 114
PCB-1260	33.3	23.5		ug/Kg		71	34 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	80		20 - 150
DCB Decachlorobiphenyl (Surr)	84		20 - 150
Tetrachloro-m-xylene (Surr)	87		20 - 130
Tetrachloro-m-xylene (Surr)	87		20 - 130

Lab Sample ID: 180-58484-3MS
Matrix: Sediment
Analysis Batch: 188361

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA
Prep Batch: 188144

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		53.6	28.2		ug/Kg	☼	53	39 - 114
PCB-1260	ND		53.6	25.6		ug/Kg	☼	48	34 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	72		20 - 150
DCB Decachlorobiphenyl (Surr)	82		20 - 150
Tetrachloro-m-xylene (Surr)	57		20 - 130
Tetrachloro-m-xylene (Surr)	56		20 - 130

Lab Sample ID: 180-58484-3MSD
Matrix: Sediment
Analysis Batch: 188361

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA
Prep Batch: 188144

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		53.4	31.1		ug/Kg	☼	58	39 - 114	10	30
PCB-1260	ND		53.4	28.4		ug/Kg	☼	53	34 - 123	10	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	67		20 - 150
DCB Decachlorobiphenyl (Surr)	75		20 - 150
Tetrachloro-m-xylene (Surr)	60		20 - 130
Tetrachloro-m-xylene (Surr)	58		20 - 130

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-187659/1-A
Matrix: Sediment
Analysis Batch: 188770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	3.8	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Antimony	ND		0.50	0.18	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Arsenic	ND		0.50	0.22	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Barium	ND		10	2.7	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Beryllium	ND		0.20	0.052	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Cadmium	ND		0.25	0.056	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Calcium	ND		250	69	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Chromium	ND		0.25	0.065	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Cobalt	ND		2.5	0.56	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Copper	ND		1.3	0.38	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Iron	ND		5.0	2.8	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Lead	ND		0.50	0.16	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Magnesium	ND		250	64	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Manganese	ND		0.75	0.20	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Nickel	ND		2.0	0.45	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Potassium	ND		250	60	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Selenium	ND		0.50	0.20	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Silver	ND		0.25	0.083	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Sodium	ND		250	70	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Thallium	ND		1.0	0.25	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Vanadium	ND		2.5	0.78	mg/Kg		09/12/16 10:28	09/21/16 09:58	1
Zinc	ND		1.0	0.51	mg/Kg		09/12/16 10:28	09/21/16 09:58	1

Lab Sample ID: LCS 180-187659/2-A
Matrix: Sediment
Analysis Batch: 188770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	99.5	99.4		mg/Kg		100	80 - 120
Antimony	24.9	24.7		mg/Kg		99	80 - 120
Arsenic	24.9	24.0		mg/Kg		97	80 - 120
Barium	99.5	98.7		mg/Kg		99	80 - 120
Beryllium	2.49	2.50		mg/Kg		101	80 - 120
Cadmium	2.49	2.43		mg/Kg		98	80 - 120
Calcium	2490	2500		mg/Kg		101	80 - 120
Chromium	9.95	9.78		mg/Kg		98	80 - 120
Cobalt	24.9	24.7		mg/Kg		99	80 - 120
Copper	12.4	11.9		mg/Kg		96	80 - 120
Iron	49.8	50.9		mg/Kg		102	80 - 120
Lead	24.9	24.1		mg/Kg		97	80 - 120
Magnesium	2490	2490		mg/Kg		100	80 - 120
Manganese	24.9	23.9		mg/Kg		96	80 - 120
Nickel	24.9	24.8		mg/Kg		100	80 - 120
Potassium	2490	2460		mg/Kg		99	80 - 120
Selenium	24.9	24.6		mg/Kg		99	80 - 120
Silver	2.49	2.46		mg/Kg		99	80 - 120
Sodium	2490	2530		mg/Kg		102	80 - 120
Thallium	24.9	22.9		mg/Kg		92	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-187659/2-A
Matrix: Sediment
Analysis Batch: 188770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	24.9	25.5		mg/Kg		102	80 - 120
Zinc	24.9	24.6		mg/Kg		99	80 - 120

Lab Sample ID: 180-58484-3MS
Matrix: Sediment
Analysis Batch: 188770

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA
Prep Batch: 187659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	9.5		38.6	46.9		mg/Kg	☼	97	75 - 125
Lead	110		38.6	154		mg/Kg	☼	105	75 - 125
Nickel	61		38.6	105		mg/Kg	☼	114	75 - 125
Thallium	ND		38.6	32.4		mg/Kg	☼	84	75 - 125

Lab Sample ID: 180-58484-3MS
Matrix: Sediment
Analysis Batch: 188770

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA
Prep Batch: 187659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9500		154	12300	4	mg/Kg	☼	1816	75 - 125
Antimony	ND	F1	38.6	18.3	F1	mg/Kg	☼	47	75 - 125
Arsenic	9.7		38.6	42.8		mg/Kg	☼	86	75 - 125
Barium	160	F1	154	290		mg/Kg	☼	82	75 - 125
Beryllium	0.53	J	3.86	3.66		mg/Kg	☼	81	75 - 125
Cadmium	0.26	J	3.86	3.35		mg/Kg	☼	80	75 - 125
Calcium	2500		3860	5700		mg/Kg	☼	83	75 - 125
Chromium	17		15.4	31.8		mg/Kg	☼	97	75 - 125
Copper	72	F1	19.3	84.6	F1	mg/Kg	☼	64	75 - 125
Iron	21000		77.2	22600	4	mg/Kg	☼	1640	75 - 125
Magnesium	2500		3860	5940		mg/Kg	☼	88	75 - 125
Manganese	550	F2	38.6	479	4	mg/Kg	☼	-174	75 - 125
Potassium	750	J	3860	4260		mg/Kg	☼	91	75 - 125
Selenium	ND		38.6	32.3		mg/Kg	☼	84	75 - 125
Silver	ND		3.86	3.06		mg/Kg	☼	79	75 - 125
Sodium	ND		3860	3370		mg/Kg	☼	87	75 - 125
Vanadium	17		38.6	52.6		mg/Kg	☼	94	75 - 125
Zinc	120	F1	38.6	154		mg/Kg	☼	89	75 - 125

Lab Sample ID: 180-58484-3MSD
Matrix: Sediment
Analysis Batch: 188770

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA
Prep Batch: 187659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	9.5		37.5	45.6		mg/Kg	☼	96	75 - 125	3	20
Lead	110		37.5	142		mg/Kg	☼	77	75 - 125	8	20
Nickel	61		37.5	93.7		mg/Kg	☼	88	75 - 125	11	20
Thallium	ND		37.5	31.9		mg/Kg	☼	85	75 - 125	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-58484-3MSD — **Client Sample ID: STI-HP1-SED-C**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 188770 — **Prep Batch: 187659**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9500		150	11500	4	mg/Kg	☼	1338	75 - 125	7	20
Antimony	ND	F1	37.5	18.2	F1	mg/Kg	☼	49	75 - 125	1	20
Arsenic	9.7		37.5	42.9		mg/Kg	☼	89	75 - 125	0	20
Barium	160	F1	150	272	F1	mg/Kg	☼	72	75 - 125	6	20
Beryllium	0.53	J	3.75	3.63		mg/Kg	☼	83	75 - 125	1	20
Cadmium	0.26	J	3.75	3.34		mg/Kg	☼	82	75 - 125	0	20
Calcium	2500		3750	5610		mg/Kg	☼	83	75 - 125	2	20
Chromium	17		15.0	31.7		mg/Kg	☼	99	75 - 125	0	20
Copper	72	F1	18.8	76.7	F1	mg/Kg	☼	23	75 - 125	10	20
Iron	21000		75.1	21500	4	mg/Kg	☼	196	75 - 125	5	20
Magnesium	2500		3750	5750		mg/Kg	☼	85	75 - 125	3	20
Manganese	550	F2	37.5	373	4 F2	mg/Kg	☼	-461	75 - 125	25	20
Potassium	750	J	3750	4210		mg/Kg	☼	92	75 - 125	1	20
Selenium	ND		37.5	31.9		mg/Kg	☼	85	75 - 125	1	20
Silver	ND		3.75	3.21		mg/Kg	☼	86	75 - 125	5	20
Sodium	ND		3750	3350		mg/Kg	☼	89	75 - 125	0	20
Vanadium	17		37.5	52.8		mg/Kg	☼	97	75 - 125	0	20
Zinc	120	F1	37.5	145	F1	mg/Kg	☼	68	75 - 125	6	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-187649/1-A — **Client Sample ID: Method Blank**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 187832 — **Prep Batch: 187649**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00875	J	0.033	0.0074	mg/Kg		09/12/16 09:09	09/13/16 12:16	1

Lab Sample ID: LCS 180-187649/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 187832 — **Prep Batch: 187649**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.412		mg/Kg		99	80 - 120

Lab Sample ID: 180-58484-3MS — **Client Sample ID: STI-HP1-SED-C**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 187832 — **Prep Batch: 187649**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.11	B	0.134	0.264		mg/Kg	☼	113	80 - 120

Lab Sample ID: 180-58484-3MSD — **Client Sample ID: STI-HP1-SED-C**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 187832 — **Prep Batch: 187649**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.11	B	0.126	0.243		mg/Kg	☼	103	80 - 120	8	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-58484-3 DU
Matrix: Sediment
Analysis Batch: 188060

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	38.0		39.5		%		4	20
Percent Solids	62.0		60.5		%		2	20

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 180-187780/3
Matrix: Sediment
Analysis Batch: 187780

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1000	500	mg/Kg			09/13/16 07:43	1

Lab Sample ID: LCS 180-187780/4
Matrix: Sediment
Analysis Batch: 187780

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	34900	33900		mg/Kg		97	75 - 125

Lab Sample ID: MB 180-188104/3
Matrix: Sediment
Analysis Batch: 188104

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1000	500	mg/Kg			09/13/16 07:43	1

Lab Sample ID: LCS 180-188104/4
Matrix: Sediment
Analysis Batch: 188104

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	34900	33900		mg/Kg		97	75 - 125

Lab Sample ID: 180-58484-3MS
Matrix: Sediment
Analysis Batch: 188104

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	45000		83300	140000		mg/Kg	☼	114	75 - 125

Lab Sample ID: 180-58484-3MSD
Matrix: Sediment
Analysis Batch: 188104

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	45000		80600	133000		mg/Kg	☼	109	75 - 125	5	20

Method: Lloyd Kahn - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 180-58484-3 DU
Matrix: Sediment
Analysis Batch: 188104

Client Sample ID: STI-HP1-SED-C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - Duplicates	45000			48500		mg/Kg	☼			7	20

Lab Sample ID: MB 180-188640/3
Matrix: Sediment
Analysis Batch: 188640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1000	500	mg/Kg			09/20/16 06:15	1

GC/MS Semi VOA

Prep Batch: 188143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	3541	
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	3541	
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	3541	
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	3541	
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	3541	
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	3541	
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	3541	
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	3541	
180-58484-9	STI-FD-1	Total/NA	Sediment	3541	
MB 180-188143/1-A	Method Blank	Total/NA	Sediment	3541	
LCS 180-188143/2-A	Lab Control Sample	Total/NA	Sediment	3541	
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	3541	
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	3541	

Analysis Batch: 188161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	8270D LL	188143
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	8270D LL	188143
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	8270D LL	188143
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	8270D LL	188143
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	8270D LL	188143
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	8270D LL	188143
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	8270D LL	188143
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	8270D LL	188143
180-58484-9	STI-FD-1	Total/NA	Sediment	8270D LL	188143
LCS 180-188143/2-A	Lab Control Sample	Total/NA	Sediment	8270D LL	188143
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	8270D LL	188143
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	8270D LL	188143

Analysis Batch: 188373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-188143/1-A	Method Blank	Total/NA	Sediment	8270D LL	188143

GC Semi VOA

Prep Batch: 188144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	3541	
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	3541	
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	3541	
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	3541	
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	3541	
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	3541	
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	3541	
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	3541	
180-58484-9	STI-FD-1	Total/NA	Sediment	3541	
MB 180-188144/1-C	Method Blank	Total/NA	Sediment	3541	
LCS 180-188144/2-C	Lab Control Sample	Total/NA	Sediment	3541	
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	3541	
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	3541	

GC Semi VOA (Continued)

Cleanup Batch: 188348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	3665A	188144
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	3665A	188144
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	3665A	188144
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	3665A	188144
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	3665A	188144
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	3665A	188144
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	3665A	188144
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	3665A	188144
180-58484-9	STI-FD-1	Total/NA	Sediment	3665A	188144
MB 180-188144/1-C	Method Blank	Total/NA	Sediment	3665A	188144
LCS 180-188144/2-C	Lab Control Sample	Total/NA	Sediment	3665A	188144
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	3665A	188144
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	3665A	188144

Cleanup Batch: 188349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	3660B	188348
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	3660B	188348
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	3660B	188348
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	3660B	188348
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	3660B	188348
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	3660B	188348
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	3660B	188348
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	3660B	188348
180-58484-9	STI-FD-1	Total/NA	Sediment	3660B	188348
MB 180-188144/1-C	Method Blank	Total/NA	Sediment	3660B	188348
LCS 180-188144/2-C	Lab Control Sample	Total/NA	Sediment	3660B	188348
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	3660B	188348
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	3660B	188348

Analysis Batch: 188361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	8082A	188349
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	8082A	188349
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	8082A	188349
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	8082A	188349
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	8082A	188349
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	8082A	188349
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	8082A	188349
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	8082A	188349
180-58484-9	STI-FD-1	Total/NA	Sediment	8082A	188349
MB 180-188144/1-C	Method Blank	Total/NA	Sediment	8082A	188349
LCS 180-188144/2-C	Lab Control Sample	Total/NA	Sediment	8082A	188349
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	8082A	188349
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	8082A	188349

Metals

Prep Batch: 187649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	7471B	
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	7471B	
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	7471B	
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	7471B	
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	7471B	
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	7471B	
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	7471B	
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	7471B	
180-58484-9	STI-FD-1	Total/NA	Sediment	7471B	
MB 180-187649/1-A	Method Blank	Total/NA	Sediment	7471B	
LCS 180-187649/2-A	Lab Control Sample	Total/NA	Sediment	7471B	
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	7471B	
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	7471B	

Prep Batch: 187659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	3050B	
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	3050B	
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	3050B	
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	3050B	
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	3050B	
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	3050B	
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	3050B	
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	3050B	
180-58484-9	STI-FD-1	Total/NA	Sediment	3050B	
MB 180-187659/1-A	Method Blank	Total/NA	Sediment	3050B	
LCS 180-187659/2-A	Lab Control Sample	Total/NA	Sediment	3050B	
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	3050B	
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	3050B	

Analysis Batch: 187832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	7471B	187649
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	7471B	187649
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	7471B	187649
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	7471B	187649
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	7471B	187649
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	7471B	187649
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	7471B	187649
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	7471B	187649
180-58484-9	STI-FD-1	Total/NA	Sediment	7471B	187649
MB 180-187649/1-A	Method Blank	Total/NA	Sediment	7471B	187649
LCS 180-187649/2-A	Lab Control Sample	Total/NA	Sediment	7471B	187649
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	7471B	187649
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	7471B	187649

Analysis Batch: 188770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	6010C	187659
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	6010C	187659
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	6010C	187659

Metals (Continued)

Analysis Batch: 188770 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	6010C	187659
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	6010C	187659
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	6010C	187659
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	6010C	187659
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	6010C	187659
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	6010C	187659
180-58484-9	STI-FD-1	Total/NA	Sediment	6010C	187659
MB 180-187659/1-A	Method Blank	Total/NA	Sediment	6010C	187659
LCS 180-187659/2-A	Lab Control Sample	Total/NA	Sediment	6010C	187659
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	6010C	187659
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	6010C	187659
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	6010C	187659
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	6010C	187659

General Chemistry

Analysis Batch: 187780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	Lloyd Kahn	
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	Lloyd Kahn	
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	Lloyd Kahn	
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	Lloyd Kahn	
MB 180-187780/3	Method Blank	Total/NA	Sediment	Lloyd Kahn	
LCS 180-187780/4	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	

Analysis Batch: 188060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-1	STI-HP1-SED-A	Total/NA	Sediment	2540G	
180-58484-2	STI-HP1-SED-B	Total/NA	Sediment	2540G	
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	2540G	
180-58484-4	STI-HP2-SED-A	Total/NA	Sediment	2540G	
180-58484-5	STI-HP2-SED-B	Total/NA	Sediment	2540G	
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	2540G	
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	2540G	
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	2540G	
180-58484-9	STI-FD-1	Total/NA	Sediment	2540G	
180-58484-3 DU	STI-HP1-SED-C	Total/NA	Sediment	2540G	

Analysis Batch: 188104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-3	STI-HP1-SED-C	Total/NA	Sediment	Lloyd Kahn	
180-58484-6	STI-HP3-SED-A	Total/NA	Sediment	Lloyd Kahn	
180-58484-7	STI-HP4-SED-A	Total/NA	Sediment	Lloyd Kahn	
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	Lloyd Kahn	
180-58484-9	STI-FD-1	Total/NA	Sediment	Lloyd Kahn	
MB 180-188104/3	Method Blank	Total/NA	Sediment	Lloyd Kahn	
LCS 180-188104/4	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	
180-58484-3MS	STI-HP1-SED-C	Total/NA	Sediment	Lloyd Kahn	
180-58484-3MSD	STI-HP1-SED-C	Total/NA	Sediment	Lloyd Kahn	
180-58484-3 DU	STI-HP1-SED-C	Total/NA	Sediment	Lloyd Kahn	

General Chemistry (Continued)

Analysis Batch: 188640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58484-8	STI-HP4-SED-B	Total/NA	Sediment	Lloyd Kahn	
MB 180-188640/3	Method Blank	Total/NA	Sediment	Lloyd Kahn	
LCS 180-188640/4	Lab Control Sample	Total/NA	Sediment	Lloyd Kahn	

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: 9/8/16	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 JT 9/9/16	☑ 2 weeks			Lab Sampling:
Project Name: Former ~~Sperry-Remington~~ Site - ~~North~~ Scott's Terrace	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN08328C JT 9/8/16	☐ 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 JT 9/9/16	PAHs - 8270D_LL Scott's Terrace JT 9/9/16	Metals - 6010C	Mercury - 7471B	TCL - Lloyd Kahn	Sample Specific Notes:
STI-HP1-Sed-A	9/8/16	1130	C	sed	2	N	N	X	X	X	X	X	
STI-HP1-Sed-B		1130	C	sed	2		N	X	X	X	X	X	
STI-HP1-SED-C		1130	C	sed	4		Y	X	X	X	X	X	STI-MS/MSD-1
STI-HP2-SED-A		1145	C	sed	2		N	X	X	X	X	X	
STI-HP2-SED-B		1145	C	sed	2		N	X	X	X	X	X	
STI-HP3-SED-A		1200	C	sed	2		N	X	X	X	X	X	
STI-HP4-SED-A		1215	C	sed	2		N	X	X	X	X	X	
STI-HP4-SED-B	↓	1215	C	sed	2	↓	N	X	X	X	X	X	
STI-FD-1	9/8/16	X	C	sed	2	N	N	X	X	X	X	X	
								1	1	1	1	1	

180-58484 Chain of Custody

9/8/16

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: STI-HP1-SED-C 4/5/17 - 2 samples
- 2 MS/MSD " STI-MS/MSD-1 "

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

Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 9/8/16 1830	Received by:	Company: TAPitt	Date/Time: 9/9/16 0935
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: 180-58484-1

Login Number: 58484
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
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ANALYTICAL REPORT

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

TestAmerica Job ID: 180-58503-1
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:
9/26/2016 3:47:41 PM
Jill Colussy, Project Manager I
(412)963-2444
jill.colussy@testamericainc.com

Designee for

David Dunlap, Senior Project Manager
(412)963-2432
dave.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: 180-58503-1

Job ID: 180-58503-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-58503-1

Receipt
The samples were received on 9/10/2016 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
Method 6010C: The continuing calibration verification (CCV's) associated with prep batch 180-187648 recovered above the upper control limit for selenium. The samples associated with these CCV's were less than the reporting limit (RL) for the affected analyte; therefore, the data have been reported. The following samples are impacted: STI-B47-SUB-0.17-2 (180-58503-1), STI-B47-SS (180-58503-2), STI-B46-SS (180-58503-3), STI-B46-SUB-0.17-2 (180-58503-4), STI-B48-SUB-0.17-2 (180-58503-6) and STI-FD-6 (180-58503-7).

Method 6010C: The matrix spike and matrix spike duplicate (MSD) recovery for sample STI-B48-SUB-0.17-2 (180-58503-6) in preparation batch 180-187648 and analytical batch 180-187985 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471B: The matrix spike and matrix spike duplicate (MSD) recovery for sample STI-B48-SUB-0.17-2 (180-58503-6) in preparation batch 180-187639 and analytical batch 180-187832 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry
Method 7196A: The soluble, insoluble, and post-digestion spike (PDS) recoveries were below the control limits for sample STI-B48-SUB-0.17-2 (180-58503-6). The soluble and insoluble recoveries of the laboratory control sample (LCS) were within the control limits. The sample, matrix spikes, and laboratory duplicate were reanalyzed. The soluble and post-digestion spike recoveries were again below the control limits. The insoluble spike recovery was slightly within the control limits. Both, the original and reanalysis results were reported.

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: 180-58503-1

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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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.

General Chemistry

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

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

TestAmerica Job ID: 180-58503-1

Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-17

The following analytes are included in this report, but 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: 180-58503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-58503-1	STI-B47-SUB-0.17-2	Solid	09/09/16 09:20	09/10/16 08:45
180-58503-2	STI-B47-SS	Solid	09/09/16 09:15	09/10/16 08:45
180-58503-3	STI-B46-SS	Solid	09/09/16 09:30	09/10/16 08:45
180-58503-4	STI-B46-SUB-0.17-2	Solid	09/09/16 09:35	09/10/16 08:45
180-58503-5	STI-B48-SS	Solid	09/09/16 09:50	09/10/16 08:45
180-58503-6	STI-B48-SUB-0.17-2	Solid	09/09/16 09:55	09/10/16 08:45
180-58503-7	STI-FD-6	Solid	09/09/16 00:00	09/10/16 08:45
180-58503-8	STI-EB-1	Water	09/09/16 15:15	09/10/16 08:45

Method Summary

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

TestAmerica Job ID: 180-58503-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL PIT
7470A	Mercury (CVAA)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
7196A	Chromium, Hexavalent	SW846	TAL PIT

Protocol References:

SM22 = SM22

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: 180-58503-1

Client Sample ID: STI-B47-SUB-0.17-2
Date Collected: 09/09/16 09:20
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-1
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			188133	09/15/16 16:44	JLR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B47-SUB-0.17-2
Date Collected: 09/09/16 09:20
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-1
Matrix: Solid
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.09 g	100 mL	187648	09/12/16 09:07	ANA	TAL PIT
Total/NA	Analysis	6010C		1			187985	09/14/16 11:31	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	187639	09/12/16 08:56	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 13:19	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3060A			2.50 g	100 mL	187791	09/13/16 14:30	JLR	TAL PIT
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	187946	09/14/16 15:11	JLR	TAL PIT
	Instrument ID: GENESYS10S									

Client Sample ID: STI-B47-SS
Date Collected: 09/09/16 09:15
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-2
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			188133	09/15/16 16:44	JLR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B47-SS
Date Collected: 09/09/16 09:15
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-2
Matrix: Solid
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	3050B			1.08 g	100 mL	187648	09/12/16 09:07	ANA	TAL PIT
Total/NA	Analysis	6010C		1			187985	09/14/16 11:36	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	187639	09/12/16 08:56	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 13:25	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3060A			2.52 g	100 mL	187791	09/13/16 14:30	JLR	TAL PIT
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	187946	09/14/16 15:12	JLR	TAL PIT
	Instrument ID: GENESYS10S									

Lab Chronicle

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

TestAmerica Job ID: 180-58503-1

Client Sample ID: STI-B46-SS
Date Collected: 09/09/16 09:30
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-3
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			188133	09/15/16 16:44	JLR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B46-SS
Date Collected: 09/09/16 09:30
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-3
Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.06 g	100 mL	187648	09/12/16 09:07	ANA	TAL PIT
Total/NA	Analysis	6010C		1			187985	09/14/16 11:41	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.69 g	100 mL	187639	09/12/16 08:56	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 13:27	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3060A			2.55 g	100 mL	187791	09/13/16 14:30	JLR	TAL PIT
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	187946	09/14/16 15:13	JLR	TAL PIT
	Instrument ID: GENESYS10S									

Client Sample ID: STI-B46-SUB-0.17-2
Date Collected: 09/09/16 09:35
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-4
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			188133	09/15/16 16:44	JLR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B46-SUB-0.17-2
Date Collected: 09/09/16 09:35
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-4
Matrix: Solid
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	3050B			1.15 g	100 mL	187648	09/12/16 09:07	ANA	TAL PIT
Total/NA	Analysis	6010C		1			187985	09/14/16 11:46	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.64 g	100 mL	187639	09/12/16 08:56	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 13:29	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3060A			2.54 g	100 mL	187791	09/13/16 14:30	JLR	TAL PIT
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	187946	09/14/16 15:14	JLR	TAL PIT
	Instrument ID: GENESYS10S									

Lab Chronicle

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

TestAmerica Job ID: 180-58503-1

Client Sample ID: STI-B48-SS
Date Collected: 09/09/16 09:50
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-5
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			188133	09/15/16 16:44	JLR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B48-SS
Date Collected: 09/09/16 09:50
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-5
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	3050B			1.13 g	100 mL	187648	09/12/16 09:07	ANA	TAL PIT
Total/NA	Analysis	6010C		1			187985	09/14/16 12:02	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	3050B			1.13 g	100 mL	187648	09/12/16 09:07	ANA	TAL PIT
Total/NA	Analysis	6010C		1			188044	09/15/16 08:03	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.76 g	100 mL	187639	09/12/16 08:56	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 13:30	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3060A			2.50 g	100 mL	187791	09/13/16 14:30	JLR	TAL PIT
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	187946	09/14/16 15:15	JLR	TAL PIT
	Instrument ID: GENESYS10S									

Client Sample ID: STI-B48-SUB-0.17-2
Date Collected: 09/09/16 09:55
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-6
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			188133	09/15/16 16:44	JLR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B48-SUB-0.17-2
Date Collected: 09/09/16 09:55
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-6
Matrix: Solid
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.08 g	100 mL	187648	09/12/16 09:07	ANA	TAL PIT
Total/NA	Analysis	6010C		1			187985	09/14/16 12:07	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.65 g	100 mL	187639	09/12/16 08:56	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 13:32	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3060A			2.53 g	100 mL	188329	09/18/16 18:00	JLR	TAL PIT
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	188537	09/20/16 14:49	JLR	TAL PIT
	Instrument ID: GENESYS10S									
Total/NA	Prep	3060A			2.55 g	100 mL	188331	09/18/16 18:00	JLR	TAL PIT

Lab Chronicle

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

TestAmerica Job ID: 180-58503-1

Client Sample ID: STI-B48-SUB-0.17-2

Lab Sample ID: 180-58503-6
Date Collected: 09/09/16 09:55
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	188542	09/20/16 15:01	JLR	TAL PIT
	Instrument ID: GENESYS10S									

Client Sample ID: STI-FD-6

Lab Sample ID: 180-58503-7
Date Collected: 09/09/16 00:00
Matrix: Solid
Date Received: 09/10/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188133	09/15/16 16:44	JLR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-FD-6

Lab Sample ID: 180-58503-7
Date Collected: 09/09/16 00:00
Matrix: Solid
Date Received: 09/10/16 08:45
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	3050B			1.00 g	100 mL	187648	09/12/16 09:07	ANA	TAL PIT
Total/NA	Analysis	6010C		1			187985	09/14/16 12:32	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.74 g	100 mL	187639	09/12/16 08:56	EVR	TAL PIT
Total/NA	Analysis	7471B		1			187832	09/13/16 13:38	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3060A			2.53 g	100 mL	187791	09/13/16 14:30	JLR	TAL PIT
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	187946	09/14/16 15:15	JLR	TAL PIT
	Instrument ID: GENESYS10S									

Client Sample ID: STI-EB-1

Lab Sample ID: 180-58503-8
Date Collected: 09/09/16 15:15
Matrix: Water
Date Received: 09/10/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	187615	09/12/16 07:29	ANA	TAL PIT
Total Recoverable	Analysis	6010C		1			187781	09/13/16 08:39	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7470A			50 mL	50 mL	187601	09/12/16 06:40	EVR	TAL PIT
Total/NA	Analysis	7470A		1			187678	09/12/16 11:33	EVR	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	187557	09/10/16 14:25	RSK	TAL PIT
	Instrument ID: GENESYS10S									

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: 180-58503-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

ANA = Alexis Anderson

EVR = Emilie Reichenbach

JLR = Jennifer Rumble

Batch Type: Analysis

EVR = Emilie Reichenbach

JLR = Jennifer Rumble

RJG = Rob Good

RSK = Robert Kurtz

Client Sample ID: STI-B47-SUB-0.17-2

Lab Sample ID: 180-58503-1
Date Collected: 09/09/16 09:20
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 93.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		20	7.5	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Antimony	ND		0.99	0.35	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Arsenic	5.6		0.99	0.43	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Barium	140		20	5.3	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Beryllium	0.51		0.39	0.10	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Cadmium	0.14	J	0.49	0.11	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Calcium	710		490	140	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Chromium	12		0.49	0.13	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Cobalt	7.6		4.9	1.1	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Copper	26		2.5	0.76	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Iron	18000		9.9	5.5	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Lead	38		0.99	0.32	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Magnesium	2300		490	130	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Manganese	640		1.5	0.40	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Nickel	16		3.9	0.17	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Potassium	580		490	120	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Selenium	0.63	J ^	0.99	0.39	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Silver	ND		0.49	0.16	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Sodium	ND		490	140	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Thallium	ND		2.0	0.49	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Vanadium	16		4.9	1.5	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1
Zinc	65		2.0	1.0	mg/Kg	☼	09/12/16 09:07	09/14/16 11:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.032	0.0072	mg/Kg	☼	09/12/16 08:56	09/13/16 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.1	%			09/15/16 16:44	1
Percent Solids	93.0		0.1	0.1	%			09/15/16 16:44	1
Hexavalent chromium	0.26	J	0.43	0.12	mg/Kg	☼	09/13/16 14:30	09/14/16 15:11	1

Client Sample ID: STI-B47-SS

Lab Sample ID: 180-58503-2
Date Collected: 09/09/16 09:15
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 90.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		20	7.8	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Antimony	ND		1.0	0.36	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Arsenic	6.6		1.0	0.45	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Barium	130		20	5.5	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Beryllium	0.47		0.41	0.11	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Cadmium	0.23	J	0.51	0.11	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Calcium	2200		510	140	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Chromium	12		0.51	0.13	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Cobalt	7.1		5.1	1.2	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Copper	14		2.6	0.79	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Iron	17000		10	5.7	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1

Client Sample ID: STI-B47-SS

Date Collected: 09/09/16 09:15
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-2
Matrix: Solid
Percent Solids: 90.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	94		1.0	0.34	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Magnesium	2300		510	130	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Manganese	630		1.5	0.42	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Nickel	15		4.1	0.17	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Potassium	810		510	120	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Selenium	0.69	J ^	1.0	0.41	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Silver	ND		0.51	0.17	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Sodium	ND		510	140	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Thallium	ND		2.0	0.51	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Vanadium	15		5.1	1.6	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1
Zinc	82		2.0	1.0	mg/Kg	☼	09/12/16 09:07	09/14/16 11:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.033	0.0074	mg/Kg	☼	09/12/16 08:56	09/13/16 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.1	%			09/15/16 16:44	1
Percent Solids	90.4		0.1	0.1	%			09/15/16 16:44	1
Hexavalent chromium	0.60		0.44	0.12	mg/Kg	☼	09/13/16 14:30	09/14/16 15:12	1

Client Sample ID: STI-B46-SS

Date Collected: 09/09/16 09:30
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58503-3
Matrix: Solid
Percent Solids: 82.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000		23	8.8	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Antimony	0.70	J	1.2	0.41	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Arsenic	9.5		1.2	0.51	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Barium	84		23	6.2	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Beryllium	0.44	J	0.46	0.12	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Cadmium	0.39	J	0.58	0.13	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Calcium	2700		580	160	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Chromium	12		0.58	0.15	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Cobalt	7.8		5.8	1.3	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Copper	25		2.9	0.88	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Iron	20000		12	6.4	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Lead	330		1.2	0.38	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Magnesium	2500		580	150	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Manganese	430		1.7	0.47	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Nickel	20		4.6	0.20	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Potassium	800		580	140	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Selenium	0.56	J ^	1.2	0.46	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Silver	ND		0.58	0.19	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Sodium	ND		580	160	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Thallium	ND		2.3	0.57	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Vanadium	17		5.8	1.8	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1
Zinc	160		2.3	1.2	mg/Kg	☼	09/12/16 09:07	09/14/16 11:41	1

Client Sample ID: STI-B46-SS — Lab Sample ID: 180-58503-3

Date Collected: 09/09/16 09:30 — Matrix: Solid
Date Received: 09/10/16 08:45 — Percent Solids: 82.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.035	0.0078	mg/Kg	☼	09/12/16 08:56	09/13/16 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.0		0.1	0.1	%			09/15/16 16:44	1
Percent Solids	82.0		0.1	0.1	%			09/15/16 16:44	1
Hexavalent chromium	0.17	J	0.48	0.14	mg/Kg	☼	09/13/16 14:30	09/14/16 15:13	1

Client Sample ID: STI-B46-SUB-0.17-2 — Lab Sample ID: 180-58503-4

Date Collected: 09/09/16 09:35 — Matrix: Solid
Date Received: 09/10/16 08:45 — Percent Solids: 93.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9700		19	7.1	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Antimony	ND		0.93	0.33	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Arsenic	8.9		0.93	0.41	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Barium	65		19	5.0	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Beryllium	0.43		0.37	0.097	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Cadmium	0.21	J	0.47	0.10	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Calcium	1300		470	130	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Chromium	13		0.47	0.12	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Cobalt	8.3		4.7	1.0	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Copper	21		2.3	0.72	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Iron	21000		9.3	5.2	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Lead	110		0.93	0.31	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Magnesium	2700		470	120	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Manganese	370		1.4	0.38	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Nickel	21		3.7	0.16	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Potassium	640		470	110	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Selenium	ND	^	0.93	0.37	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Silver	ND		0.47	0.15	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Sodium	ND		470	130	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Thallium	ND		1.9	0.46	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Vanadium	16		4.7	1.4	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1
Zinc	120		1.9	0.94	mg/Kg	☼	09/12/16 09:07	09/14/16 11:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.033	0.0074	mg/Kg	☼	09/12/16 08:56	09/13/16 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		0.1	0.1	%			09/15/16 16:44	1
Percent Solids	93.4		0.1	0.1	%			09/15/16 16:44	1
Hexavalent chromium	0.20	J	0.42	0.12	mg/Kg	☼	09/13/16 14:30	09/14/16 15:14	1

Client Sample ID: STI-B48-SS

Lab Sample ID: 180-58503-5
Date Collected: 09/09/16 09:50
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 84.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9900		21	7.9	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Antimony	0.73	J	1.0	0.37	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Arsenic	7.7		1.0	0.46	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Barium	190		21	5.6	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Beryllium	0.47		0.42	0.11	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Cadmium	0.54		0.52	0.12	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Calcium	2800		520	140	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Chromium	13		0.52	0.14	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Cobalt	7.1		5.2	1.2	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Copper	28		2.6	0.80	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Iron	17000		10	5.8	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Lead	320		1.0	0.34	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Magnesium	2300		520	130	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Manganese	650		1.6	0.42	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Nickel	16		4.2	0.18	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Potassium	1000		520	120	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Selenium	0.81	J	1.0	0.41	mg/Kg	☼	09/12/16 09:07	09/15/16 08:03	1
Silver	0.23	J	0.52	0.17	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Sodium	ND		520	140	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Thallium	ND		2.1	0.52	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Vanadium	15		5.2	1.6	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1
Zinc	220		2.1	1.1	mg/Kg	☼	09/12/16 09:07	09/14/16 12:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.031	0.0069	mg/Kg	☼	09/12/16 08:56	09/13/16 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.1		0.1	0.1	%			09/15/16 16:44	1
Percent Solids	84.9		0.1	0.1	%			09/15/16 16:44	1
Hexavalent chromium	0.35	J	0.47	0.13	mg/Kg	☼	09/13/16 14:30	09/14/16 15:15	1

Client Sample ID: STI-B48-SUB-0.17-2

Lab Sample ID: 180-58503-6
Date Collected: 09/09/16 09:55
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 93.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		20	7.6	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Antimony	ND	F1	1.0	0.35	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Arsenic	7.0		1.0	0.44	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Barium	170		20	5.3	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Beryllium	0.52		0.40	0.10	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Cadmium	0.30	J	0.50	0.11	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Calcium	1300		500	140	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Chromium	13		0.50	0.13	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Cobalt	7.4		5.0	1.1	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Copper	22		2.5	0.77	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Iron	19000		10	5.5	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1

Client Sample ID: STI-B48-SUB-0.17-2

Lab Sample ID: 180-58503-6
Date Collected: 09/09/16 09:55
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 93.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130	F1	1.0	0.33	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Magnesium	2400		500	130	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Manganese	650		1.5	0.40	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Nickel	16		4.0	0.17	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Potassium	670		500	120	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Selenium	0.86	J ^	1.0	0.39	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Silver	ND		0.50	0.17	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Sodium	ND		500	140	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Thallium	ND		2.0	0.50	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Vanadium	17		5.0	1.5	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1
Zinc	120	F1	2.0	1.0	mg/Kg	☼	09/12/16 09:07	09/14/16 12:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29	F1	0.033	0.0073	mg/Kg	☼	09/12/16 08:56	09/13/16 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.1	%			09/15/16 16:44	1
Percent Solids	93.0		0.1	0.1	%			09/15/16 16:44	1
Hexavalent chromium	0.37	J F1	0.42	0.12	mg/Kg	☼	09/18/16 18:00	09/20/16 14:49	1
Hexavalent chromium	0.30	J F1	0.42	0.12	mg/Kg	☼	09/18/16 18:00	09/20/16 15:01	1

Client Sample ID: STI-FD-6

Lab Sample ID: 180-58503-7
Date Collected: 09/09/16 00:00
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 90.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9900		22	8.4	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Antimony	ND		1.1	0.39	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Arsenic	8.3		1.1	0.49	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Barium	68		22	5.9	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Beryllium	0.45		0.44	0.12	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Cadmium	0.24	J	0.55	0.12	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Calcium	1300		550	150	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Chromium	14		0.55	0.14	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Cobalt	8.2		5.5	1.2	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Copper	22		2.8	0.85	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Iron	21000		11	6.1	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Lead	120		1.1	0.36	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Magnesium	2700		550	140	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Manganese	400		1.7	0.45	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Nickel	21		4.4	0.19	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Potassium	690		550	130	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Selenium	ND	^	1.1	0.44	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Silver	ND		0.55	0.18	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Sodium	ND		550	150	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Thallium	ND		2.2	0.55	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1
Vanadium	17		5.5	1.7	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1

Client Sample ID: STI-FD-6

Lab Sample ID: 180-58503-7
Date Collected: 09/09/16 00:00
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 90.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	130		2.2	1.1	mg/Kg	☼	09/12/16 09:07	09/14/16 12:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	J	0.030	0.0066	mg/Kg	☼	09/12/16 08:56	09/13/16 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.1	%			09/15/16 16:44	1
Percent Solids	90.7		0.1	0.1	%			09/15/16 16:44	1
Hexavalent chromium	0.21	J	0.44	0.12	mg/Kg	☼	09/13/16 14:30	09/14/16 15:15	1

Client Sample ID: STI-EB-1

Lab Sample ID: 180-58503-8
Date Collected: 09/09/16 15:15
Matrix: Water
Date Received: 09/10/16 08:45

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	37	ug/L		09/12/16 07:29	09/13/16 08:39	1
Antimony	ND		10	3.2	ug/L		09/12/16 07:29	09/13/16 08:39	1
Arsenic	ND		10	4.8	ug/L		09/12/16 07:29	09/13/16 08:39	1
Barium	ND		200	3.2	ug/L		09/12/16 07:29	09/13/16 08:39	1
Beryllium	ND		4.0	0.42	ug/L		09/12/16 07:29	09/13/16 08:39	1
Cadmium	ND		5.0	0.20	ug/L		09/12/16 07:29	09/13/16 08:39	1
Calcium	ND		5000	89	ug/L		09/12/16 07:29	09/13/16 08:39	1
Chromium	ND		5.0	0.61	ug/L		09/12/16 07:29	09/13/16 08:39	1
Cobalt	ND		50	0.51	ug/L		09/12/16 07:29	09/13/16 08:39	1
Copper	ND		25	3.4	ug/L		09/12/16 07:29	09/13/16 08:39	1
Iron	ND		100	41	ug/L		09/12/16 07:29	09/13/16 08:39	1
Lead	ND		10	3.1	ug/L		09/12/16 07:29	09/13/16 08:39	1
Magnesium	ND		5000	79	ug/L		09/12/16 07:29	09/13/16 08:39	1
Manganese	ND		15	1.1	ug/L		09/12/16 07:29	09/13/16 08:39	1
Nickel	ND		40	3.2	ug/L		09/12/16 07:29	09/13/16 08:39	1
Potassium	ND		5000	620	ug/L		09/12/16 07:29	09/13/16 08:39	1
Selenium	ND		10	3.8	ug/L		09/12/16 07:29	09/13/16 08:39	1
Silver	ND		5.0	1.2	ug/L		09/12/16 07:29	09/13/16 08:39	1
Sodium	ND		5000	190	ug/L		09/12/16 07:29	09/13/16 08:39	1
Thallium	ND		20	2.6	ug/L		09/12/16 07:29	09/13/16 08:39	1
Vanadium	ND		50	6.9	ug/L		09/12/16 07:29	09/13/16 08:39	1
Zinc	ND		20	6.9	ug/L		09/12/16 07:29	09/13/16 08:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.052	ug/L		09/12/16 06:40	09/12/16 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.010	0.0019	mg/L			09/10/16 14:25	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-187648/1-A
Matrix: Solid
Analysis Batch: 187985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187648

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	7.6	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Antimony	ND		1.0	0.35	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Arsenic	ND		1.0	0.44	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Barium	ND		20	5.4	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Beryllium	ND		0.40	0.10	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Cadmium	ND		0.50	0.11	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Calcium	ND		500	140	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Chromium	ND		0.50	0.13	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Cobalt	ND		5.0	1.1	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Copper	ND		2.5	0.77	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Iron	ND		10	5.5	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Lead	ND		1.0	0.33	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Magnesium	ND		500	130	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Manganese	ND		1.5	0.41	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Nickel	ND		4.0	0.17	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Potassium	ND		500	120	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Selenium	ND	^	1.0	0.40	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Silver	ND		0.50	0.17	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Sodium	ND		500	140	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Thallium	ND		2.0	0.50	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Vanadium	ND		5.0	1.6	mg/Kg		09/12/16 09:07	09/14/16 11:16	1
Zinc	ND		2.0	1.0	mg/Kg		09/12/16 09:07	09/14/16 11:16	1

Lab Sample ID: LCS 180-187648/2-A
Matrix: Solid
Analysis Batch: 187985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	190	200		mg/Kg		105	80 - 120
Antimony	47.6	50.2		mg/Kg		105	80 - 120
Arsenic	47.6	49.4		mg/Kg		104	80 - 120
Barium	190	203		mg/Kg		107	80 - 120
Beryllium	4.76	5.06		mg/Kg		106	80 - 120
Cadmium	4.76	4.80		mg/Kg		101	80 - 120
Calcium	4760	4950		mg/Kg		104	80 - 120
Chromium	19.0	18.7		mg/Kg		98	80 - 120
Cobalt	47.6	48.7		mg/Kg		102	80 - 120
Copper	23.8	23.7		mg/Kg		100	80 - 120
Iron	95.2	100		mg/Kg		105	80 - 120
Lead	47.6	47.3		mg/Kg		99	80 - 120
Magnesium	4760	4970		mg/Kg		104	80 - 120
Manganese	47.6	46.4		mg/Kg		97	80 - 120
Nickel	47.6	49.2		mg/Kg		103	80 - 120
Potassium	4760	4870		mg/Kg		102	80 - 120
Selenium	47.6	52.7	^	mg/Kg		111	80 - 120
Silver	4.76	4.95		mg/Kg		104	80 - 120
Sodium	4760	4970		mg/Kg		104	80 - 120
Thallium	47.6	46.7		mg/Kg		98	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-187648/2-A
Matrix: Solid
Analysis Batch: 187985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	47.6	50.0		mg/Kg		105	80 - 120
Zinc	47.6	49.0		mg/Kg		103	80 - 120

Lab Sample ID: 180-58503-6MS
Matrix: Solid
Analysis Batch: 187985

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 187648

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	11000		213	15800	4	mg/Kg	☼	2096	75 - 125
Antimony	ND	F1	53.2	38.3	F1	mg/Kg	☼	72	75 - 125
Arsenic	7.0		53.2	58.7		mg/Kg	☼	97	75 - 125
Barium	170		213	388		mg/Kg	☼	103	75 - 125
Beryllium	0.52		5.32	5.69		mg/Kg	☼	97	75 - 125
Cadmium	0.30	J	5.32	5.29		mg/Kg	☼	94	75 - 125
Calcium	1300		5320	6460		mg/Kg	☼	96	75 - 125
Chromium	13		21.3	35.6		mg/Kg	☼	108	75 - 125
Cobalt	7.4		53.2	61.8		mg/Kg	☼	102	75 - 125
Copper	22		26.6	49.4		mg/Kg	☼	104	75 - 125
Iron	19000		106	20200	4	mg/Kg	☼	1226	75 - 125
Lead	130	F1	53.2	203	F1	mg/Kg	☼	143	75 - 125
Magnesium	2400		5320	7920		mg/Kg	☼	103	75 - 125
Manganese	650		53.2	703	4	mg/Kg	☼	94	75 - 125
Nickel	16		53.2	73.5		mg/Kg	☼	107	75 - 125
Potassium	670		5320	6060		mg/Kg	☼	101	75 - 125
Selenium	0.86	J ^	53.2	54.6	^	mg/Kg	☼	101	75 - 125
Silver	ND		5.32	5.27		mg/Kg	☼	99	75 - 125
Sodium	ND		5320	5160		mg/Kg	☼	97	75 - 125
Thallium	ND		53.2	48.4		mg/Kg	☼	91	75 - 125
Vanadium	17		53.2	75.5		mg/Kg	☼	111	75 - 125
Zinc	120	F1	53.2	206	F1	mg/Kg	☼	154	75 - 125

Lab Sample ID: 180-58503-6MSD
Matrix: Solid
Analysis Batch: 187985

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 187648

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	11000		217	15600	4	mg/Kg	☼	1944	75 - 125	2	20
Antimony	ND	F1	54.3	37.3	F1	mg/Kg	☼	69	75 - 125	3	20
Arsenic	7.0		54.3	57.3		mg/Kg	☼	93	75 - 125	2	20
Barium	170		217	391		mg/Kg	☼	102	75 - 125	1	20
Beryllium	0.52		5.43	5.58		mg/Kg	☼	93	75 - 125	2	20
Cadmium	0.30	J	5.43	5.20		mg/Kg	☼	90	75 - 125	2	20
Calcium	1300		5430	6780		mg/Kg	☼	100	75 - 125	5	20
Chromium	13		21.7	35.4		mg/Kg	☼	105	75 - 125	1	20
Cobalt	7.4		54.3	60.0		mg/Kg	☼	97	75 - 125	3	20
Copper	22		27.1	46.8		mg/Kg	☼	92	75 - 125	6	20
Iron	19000		109	20300	4	mg/Kg	☼	1296	75 - 125	1	20
Lead	130	F1	54.3	217	F1	mg/Kg	☼	165	75 - 125	6	20
Magnesium	2400		5430	7780		mg/Kg	☼	99	75 - 125	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-58503-6MSD
Matrix: Solid
Analysis Batch: 187985

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 187648

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	650		54.3	683	4	mg/Kg	☼	56	75 - 125	3	20
Nickel	16		54.3	72.0		mg/Kg	☼	103	75 - 125	2	20
Potassium	670		5430	5960		mg/Kg	☼	97	75 - 125	2	20
Selenium	0.86	J ^	54.3	53.1	^	mg/Kg	☼	96	75 - 125	3	20
Silver	ND		5.43	5.19		mg/Kg	☼	96	75 - 125	1	20
Sodium	ND		5430	5060		mg/Kg	☼	93	75 - 125	2	20
Thallium	ND		54.3	47.7		mg/Kg	☼	88	75 - 125	2	20
Vanadium	17		54.3	74.8		mg/Kg	☼	107	75 - 125	1	20
Zinc	120	F1	54.3	207	F1	mg/Kg	☼	153	75 - 125	1	20

Lab Sample ID: MB 180-187615/1-A
Matrix: Water
Analysis Batch: 187781

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 187615

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	37	ug/L		09/12/16 07:29	09/13/16 08:09	1
Antimony	ND		10	3.2	ug/L		09/12/16 07:29	09/13/16 08:09	1
Arsenic	ND		10	4.8	ug/L		09/12/16 07:29	09/13/16 08:09	1
Barium	ND		200	3.2	ug/L		09/12/16 07:29	09/13/16 08:09	1
Beryllium	ND		4.0	0.42	ug/L		09/12/16 07:29	09/13/16 08:09	1
Cadmium	ND		5.0	0.20	ug/L		09/12/16 07:29	09/13/16 08:09	1
Calcium	ND		5000	89	ug/L		09/12/16 07:29	09/13/16 08:09	1
Chromium	ND		5.0	0.61	ug/L		09/12/16 07:29	09/13/16 08:09	1
Cobalt	ND		50	0.51	ug/L		09/12/16 07:29	09/13/16 08:09	1
Copper	ND		25	3.4	ug/L		09/12/16 07:29	09/13/16 08:09	1
Iron	ND		100	41	ug/L		09/12/16 07:29	09/13/16 08:09	1
Lead	ND		10	3.1	ug/L		09/12/16 07:29	09/13/16 08:09	1
Magnesium	ND		5000	79	ug/L		09/12/16 07:29	09/13/16 08:09	1
Manganese	ND		15	1.1	ug/L		09/12/16 07:29	09/13/16 08:09	1
Nickel	ND		40	3.2	ug/L		09/12/16 07:29	09/13/16 08:09	1
Potassium	ND		5000	620	ug/L		09/12/16 07:29	09/13/16 08:09	1
Selenium	ND		10	3.8	ug/L		09/12/16 07:29	09/13/16 08:09	1
Silver	ND		5.0	1.2	ug/L		09/12/16 07:29	09/13/16 08:09	1
Sodium	ND		5000	190	ug/L		09/12/16 07:29	09/13/16 08:09	1
Thallium	ND		20	2.6	ug/L		09/12/16 07:29	09/13/16 08:09	1
Vanadium	ND		50	6.9	ug/L		09/12/16 07:29	09/13/16 08:09	1
Zinc	ND		20	6.9	ug/L		09/12/16 07:29	09/13/16 08:09	1

Lab Sample ID: LCS 180-187615/2-A
Matrix: Water
Analysis Batch: 187781

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 187615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	2030		ug/L		102	80 - 120
Antimony	500	524		ug/L		105	80 - 120
Arsenic	500	519		ug/L		104	80 - 120
Barium	2000	2010		ug/L		100	80 - 120
Beryllium	50.0	51.4		ug/L		103	80 - 120
Cadmium	50.0	51.7		ug/L		103	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-187615/2-A
Matrix: Water
Analysis Batch: 187781

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 187615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	50000	50600		ug/L		101	80 - 120
Chromium	200	200		ug/L		100	80 - 120
Cobalt	500	514		ug/L		103	80 - 120
Copper	250	241		ug/L		97	80 - 120
Iron	1000	1030		ug/L		103	80 - 120
Lead	500	511		ug/L		102	80 - 120
Magnesium	50000	50800		ug/L		102	80 - 120
Manganese	500	479		ug/L		96	80 - 120
Nickel	500	513		ug/L		103	80 - 120
Potassium	50000	50500		ug/L		101	80 - 120
Selenium	500	544		ug/L		109	80 - 120
Silver	50.0	51.7		ug/L		103	80 - 120
Sodium	50000	51600		ug/L		103	80 - 120
Thallium	500	505		ug/L		101	80 - 120
Vanadium	500	534		ug/L		107	80 - 120
Zinc	500	505		ug/L		101	80 - 120

Lab Sample ID: LCSD 180-187615/3-A
Matrix: Water
Analysis Batch: 187781

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 187615

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	2000	1990		ug/L		100	80 - 120	2	20
Antimony	500	529		ug/L		106	80 - 120	1	20
Arsenic	500	519		ug/L		104	80 - 120	0	20
Barium	2000	1980		ug/L		99	80 - 120	1	20
Beryllium	50.0	51.0		ug/L		102	80 - 120	1	20
Cadmium	50.0	51.9		ug/L		104	80 - 120	0	20
Calcium	50000	51200		ug/L		102	80 - 120	1	20
Chromium	200	198		ug/L		99	80 - 120	1	20
Cobalt	500	515		ug/L		103	80 - 120	0	20
Copper	250	239		ug/L		96	80 - 120	1	20
Iron	1000	1020		ug/L		102	80 - 120	1	20
Lead	500	512		ug/L		102	80 - 120	0	20
Magnesium	50000	51100		ug/L		102	80 - 120	1	20
Manganese	500	473		ug/L		95	80 - 120	1	20
Nickel	500	515		ug/L		103	80 - 120	1	20
Potassium	50000	50900		ug/L		102	80 - 120	1	20
Selenium	500	545		ug/L		109	80 - 120	0	20
Silver	50.0	51.5		ug/L		103	80 - 120	0	20
Sodium	50000	52200		ug/L		104	80 - 120	1	20
Thallium	500	506		ug/L		101	80 - 120	0	20
Vanadium	500	527		ug/L		105	80 - 120	1	20
Zinc	500	506		ug/L		101	80 - 120	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-187601/1-A
Matrix: Water
Analysis Batch: 187678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.052	ug/L		09/12/16 06:40	09/12/16 11:16	1

Lab Sample ID: LCS 180-187601/2-A
Matrix: Water
Analysis Batch: 187678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.49		ug/L		100	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-187639/1-A
Matrix: Solid
Analysis Batch: 187832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		09/12/16 08:56	09/13/16 13:10	1

Lab Sample ID: LCS 180-187639/2-A
Matrix: Solid
Analysis Batch: 187832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.413		mg/Kg		99	80 - 120

Lab Sample ID: 180-58503-6MS
Matrix: Solid
Analysis Batch: 187832

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 187639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.29	F1	0.147	0.381	F1	mg/Kg	☼	60	80 - 120

Lab Sample ID: 180-58503-6MSD
Matrix: Solid
Analysis Batch: 187832

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 187639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.29	F1	0.158	0.325	F1	mg/Kg	☼	20	80 - 120	16	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-58503-1 DU
Matrix: Solid
Analysis Batch: 188133

Client Sample ID: STI-B47-SUB-0.17-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	7.0		6.6		%		5	20
Percent Solids	93.0		93.4		%		0.4	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 180-187557/13
Matrix: Water
Analysis Batch: 187557

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.010	0.0019	mg/L			09/10/16 14:24	1

Lab Sample ID: LCS 180-187557/12
Matrix: Water
Analysis Batch: 187557

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	0.250	0.240		mg/L		96	85 - 115

Lab Sample ID: 180-58503-8 MS
Matrix: Water
Analysis Batch: 187557

Client Sample ID: STI-EB-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	ND		0.250	0.221		mg/L		89	85 - 115

Lab Sample ID: 180-58503-8 MSD
Matrix: Water
Analysis Batch: 187557

Client Sample ID: STI-EB-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexavalent chromium	ND		0.250	0.218		mg/L		87	85 - 115	2	20

Lab Sample ID: MB 180-187791/1-A
Matrix: Solid
Analysis Batch: 187946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.40	0.11	mg/Kg		09/13/16 14:30	09/14/16 14:59	1

Lab Sample ID: LCSI 180-187791/3-A
Matrix: Solid
Analysis Batch: 187946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187791

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	708	710		mg/Kg		100	80 - 120

Lab Sample ID: LCSS 180-187791/2-A
Matrix: Solid
Analysis Batch: 187946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187791

Analyte	Spike Added	LCSS Result	LCSS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	20.0	17.1		mg/Kg		85	80 - 120

Lab Sample ID: MB 180-188329/1-A
Matrix: Solid
Analysis Batch: 188537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.20	0.057	mg/Kg		09/18/16 18:00	09/20/16 14:30	1

Lab Sample ID: LCSI 180-188329/3-A
Matrix: Solid
Analysis Batch: 188537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188329

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	354	394		mg/Kg		111	80 - 120

Lab Sample ID: LCSS 180-188329/2-A
Matrix: Solid
Analysis Batch: 188537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188329

Analyte	Spike Added	LCSS Result	LCSS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	10.0	10.0		mg/Kg		100	80 - 120

Lab Sample ID: 180-58503-6 MSI
Matrix: Solid
Analysis Batch: 188537

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188329

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	0.37	J F1	752	412	F1	mg/Kg	☼	55	75 - 125

Lab Sample ID: 180-58503-6 MSS
Matrix: Solid
Analysis Batch: 188537

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188329

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	0.37	J F1	21.5	4.79	F1	mg/Kg	☼	21	75 - 125

Lab Sample ID: 180-58503-6 DU
Matrix: Solid
Analysis Batch: 188537

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188329

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hexavalent chromium	0.37	J F1	0.430		mg/Kg	☼	16	20

Lab Sample ID: MB 180-188331/1-A
Matrix: Solid
Analysis Batch: 188542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.20	0.057	mg/Kg		09/18/16 18:00	09/20/16 14:59	1

Lab Sample ID: LCSI 180-188331/3-A
Matrix: Solid
Analysis Batch: 188542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188331

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	354	394		mg/Kg		111	80 - 120

Lab Sample ID: LCSS 180-188331/2-A
Matrix: Solid
Analysis Batch: 188542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188331

Analyte	Spike Added	LCSS Result	LCSS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	10.0	10.1		mg/Kg		101	80 - 120

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 180-58503-6 MSI
Matrix: Solid
Analysis Batch: 188542

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	0.30	J F1	761	582		mg/Kg	☼	76	75 - 125

Lab Sample ID: 180-58503-6 MSS
Matrix: Solid
Analysis Batch: 188542

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	0.30	J F1	21.2	8.02	F1	mg/Kg	☼	36	75 - 125

Lab Sample ID: 180-58503-6 DU
Matrix: Solid
Analysis Batch: 188542

Client Sample ID: STI-B48-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188331

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hexavalent chromium	0.30	J F1	0.309	J	mg/Kg	☼	2	20

Metals

Prep Batch: 187601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-8	STI-EB-1	Total/NA	Water	7470A	
MB 180-187601/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-187601/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 187615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-8	STI-EB-1	Total Recoverable	Water	3005A	
MB 180-187615/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-187615/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 180-187615/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Prep Batch: 187639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-1	STI-B47-SUB-0.17-2	Total/NA	Solid	7471B	
180-58503-2	STI-B47-SS	Total/NA	Solid	7471B	
180-58503-3	STI-B46-SS	Total/NA	Solid	7471B	
180-58503-4	STI-B46-SUB-0.17-2	Total/NA	Solid	7471B	
180-58503-5	STI-B48-SS	Total/NA	Solid	7471B	
180-58503-6	STI-B48-SUB-0.17-2	Total/NA	Solid	7471B	
180-58503-7	STI-FD-6	Total/NA	Solid	7471B	
MB 180-187639/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-187639/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-58503-6MS	STI-B48-SUB-0.17-2	Total/NA	Solid	7471B	
180-58503-6MSD	STI-B48-SUB-0.17-2	Total/NA	Solid	7471B	

Prep Batch: 187648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-1	STI-B47-SUB-0.17-2	Total/NA	Solid	3050B	
180-58503-2	STI-B47-SS	Total/NA	Solid	3050B	
180-58503-3	STI-B46-SS	Total/NA	Solid	3050B	
180-58503-4	STI-B46-SUB-0.17-2	Total/NA	Solid	3050B	
180-58503-5	STI-B48-SS	Total/NA	Solid	3050B	
180-58503-6	STI-B48-SUB-0.17-2	Total/NA	Solid	3050B	
180-58503-7	STI-FD-6	Total/NA	Solid	3050B	
MB 180-187648/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-187648/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-58503-6MS	STI-B48-SUB-0.17-2	Total/NA	Solid	3050B	
180-58503-6MSD	STI-B48-SUB-0.17-2	Total/NA	Solid	3050B	

Analysis Batch: 187678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-8	STI-EB-1	Total/NA	Water	7470A	187601
MB 180-187601/1-A	Method Blank	Total/NA	Water	7470A	187601
LCS 180-187601/2-A	Lab Control Sample	Total/NA	Water	7470A	187601

Analysis Batch: 187781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-8	STI-EB-1	Total Recoverable	Water	6010C	187615
MB 180-187615/1-A	Method Blank	Total Recoverable	Water	6010C	187615
LCS 180-187615/2-A	Lab Control Sample	Total Recoverable	Water	6010C	187615
LCSD 180-187615/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010C	187615

Analysis Batch: 187832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-1	STI-B47-SUB-0.17-2	Total/NA	Solid	7471B	187639
180-58503-2	STI-B47-SS	Total/NA	Solid	7471B	187639
180-58503-3	STI-B46-SS	Total/NA	Solid	7471B	187639
180-58503-4	STI-B46-SUB-0.17-2	Total/NA	Solid	7471B	187639
180-58503-5	STI-B48-SS	Total/NA	Solid	7471B	187639
180-58503-6	STI-B48-SUB-0.17-2	Total/NA	Solid	7471B	187639
180-58503-7	STI-FD-6	Total/NA	Solid	7471B	187639
MB 180-187639/1-A	Method Blank	Total/NA	Solid	7471B	187639
LCS 180-187639/2-A	Lab Control Sample	Total/NA	Solid	7471B	187639
180-58503-6MS	STI-B48-SUB-0.17-2	Total/NA	Solid	7471B	187639
180-58503-6MSD	STI-B48-SUB-0.17-2	Total/NA	Solid	7471B	187639

Analysis Batch: 187985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-1	STI-B47-SUB-0.17-2	Total/NA	Solid	6010C	187648
180-58503-2	STI-B47-SS	Total/NA	Solid	6010C	187648
180-58503-3	STI-B46-SS	Total/NA	Solid	6010C	187648
180-58503-4	STI-B46-SUB-0.17-2	Total/NA	Solid	6010C	187648
180-58503-5	STI-B48-SS	Total/NA	Solid	6010C	187648
180-58503-6	STI-B48-SUB-0.17-2	Total/NA	Solid	6010C	187648
180-58503-7	STI-FD-6	Total/NA	Solid	6010C	187648
MB 180-187648/1-A	Method Blank	Total/NA	Solid	6010C	187648
LCS 180-187648/2-A	Lab Control Sample	Total/NA	Solid	6010C	187648
180-58503-6MS	STI-B48-SUB-0.17-2	Total/NA	Solid	6010C	187648
180-58503-6MSD	STI-B48-SUB-0.17-2	Total/NA	Solid	6010C	187648

Analysis Batch: 188044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-5	STI-B48-SS	Total/NA	Solid	6010C	187648

General Chemistry

Analysis Batch: 187557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-8	STI-EB-1	Total/NA	Water	7196A	
MB 180-187557/13	Method Blank	Total/NA	Water	7196A	
LCS 180-187557/12	Lab Control Sample	Total/NA	Water	7196A	
180-58503-8 MS	STI-EB-1	Total/NA	Water	7196A	
180-58503-8 MSD	STI-EB-1	Total/NA	Water	7196A	

Prep Batch: 187791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-1	STI-B47-SUB-0.17-2	Total/NA	Solid	3060A	
180-58503-2	STI-B47-SS	Total/NA	Solid	3060A	
180-58503-3	STI-B46-SS	Total/NA	Solid	3060A	
180-58503-4	STI-B46-SUB-0.17-2	Total/NA	Solid	3060A	
180-58503-5	STI-B48-SS	Total/NA	Solid	3060A	
180-58503-7	STI-FD-6	Total/NA	Solid	3060A	
MB 180-187791/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 180-187791/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSS 180-187791/2-A	Lab Control Sample	Total/NA	Solid	3060A	

General Chemistry (Continued)

Analysis Batch: 187946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-1	STI-B47-SUB-0.17-2	Total/NA	Solid	7196A	187791
180-58503-2	STI-B47-SS	Total/NA	Solid	7196A	187791
180-58503-3	STI-B46-SS	Total/NA	Solid	7196A	187791
180-58503-4	STI-B46-SUB-0.17-2	Total/NA	Solid	7196A	187791
180-58503-5	STI-B48-SS	Total/NA	Solid	7196A	187791
180-58503-7	STI-FD-6	Total/NA	Solid	7196A	187791
MB 180-187791/1-A	Method Blank	Total/NA	Solid	7196A	187791
LCSI 180-187791/3-A	Lab Control Sample	Total/NA	Solid	7196A	187791
LCSS 180-187791/2-A	Lab Control Sample	Total/NA	Solid	7196A	187791

Analysis Batch: 188133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-1	STI-B47-SUB-0.17-2	Total/NA	Solid	2540G	
180-58503-2	STI-B47-SS	Total/NA	Solid	2540G	
180-58503-3	STI-B46-SS	Total/NA	Solid	2540G	
180-58503-4	STI-B46-SUB-0.17-2	Total/NA	Solid	2540G	
180-58503-5	STI-B48-SS	Total/NA	Solid	2540G	
180-58503-6	STI-B48-SUB-0.17-2	Total/NA	Solid	2540G	
180-58503-7	STI-FD-6	Total/NA	Solid	2540G	
180-58503-1 DU	STI-B47-SUB-0.17-2	Total/NA	Solid	2540G	

Prep Batch: 188329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-6	STI-B48-SUB-0.17-2	Total/NA	Solid	3060A	
MB 180-188329/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 180-188329/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSS 180-188329/2-A	Lab Control Sample	Total/NA	Solid	3060A	
180-58503-6 MSI	STI-B48-SUB-0.17-2	Total/NA	Solid	3060A	
180-58503-6 MSS	STI-B48-SUB-0.17-2	Total/NA	Solid	3060A	
180-58503-6 DU	STI-B48-SUB-0.17-2	Total/NA	Solid	3060A	

Prep Batch: 188331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-6	STI-B48-SUB-0.17-2	Total/NA	Solid	3060A	
MB 180-188331/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 180-188331/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSS 180-188331/2-A	Lab Control Sample	Total/NA	Solid	3060A	
180-58503-6 MSI	STI-B48-SUB-0.17-2	Total/NA	Solid	3060A	
180-58503-6 MSS	STI-B48-SUB-0.17-2	Total/NA	Solid	3060A	
180-58503-6 DU	STI-B48-SUB-0.17-2	Total/NA	Solid	3060A	

Analysis Batch: 188537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-6	STI-B48-SUB-0.17-2	Total/NA	Solid	7196A	188329
MB 180-188329/1-A	Method Blank	Total/NA	Solid	7196A	188329
LCSI 180-188329/3-A	Lab Control Sample	Total/NA	Solid	7196A	188329
LCSS 180-188329/2-A	Lab Control Sample	Total/NA	Solid	7196A	188329
180-58503-6 MSI	STI-B48-SUB-0.17-2	Total/NA	Solid	7196A	188329
180-58503-6 MSS	STI-B48-SUB-0.17-2	Total/NA	Solid	7196A	188329
180-58503-6 DU	STI-B48-SUB-0.17-2	Total/NA	Solid	7196A	188329

General Chemistry (Continued)

Analysis Batch: 188542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58503-6	STI-B48-SUB-0.17-2	Total/NA	Solid	7196A	188331
MB 180-188331/1-A	Method Blank	Total/NA	Solid	7196A	188331
LCSI 180-188331/3-A	Lab Control Sample	Total/NA	Solid	7196A	188331
LCSS 180-188331/2-A	Lab Control Sample	Total/NA	Solid	7196A	188331
180-58503-6 MSI	STI-B48-SUB-0.17-2	Total/NA	Solid	7196A	188331
180-58503-6 MSS	STI-B48-SUB-0.17-2	Total/NA	Solid	7196A	188331
180-58503-6 DU	STI-B48-SUB-0.17-2	Total/NA	Solid	7196A	188331

TestAmerica Pittsburgh
301 Alpha Drive

Pittsburgh, PA 15238
Phone: 412.963.7058 Fax: 412.963.2470

Chain of Custody Record

147396

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TestAmerica Laboratories, Inc.
TAL-8210 (0713)

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

Client Contact	Project Manager: A. Kasloppole	Site Contact: J. Thompson	Date: 9/19/16	COC No:
Company Name: GEOSYNTEC Cons.	Tel/Fax: 401-381-4335	Lab Contact: D. Dunlap	Carrier: FedEx	1 of 1 COCs
Address: 10211 W. Broad St. Suite 400	Analysis Turnaround Time			Sampler: JT
City/State/Zip: Columbia MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone: 410-381-4333	TAT if different from Below ____			Walk-in Client:
Fax: 410-381-4499	☑ 2 weeks			Lab Sampling:
Project Name: Former Scovill Manuf. Site	☐ 1 week			
Site: STCC - Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832C	☐ 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)	Metals - 6010C	Mercury - 7196A	Hex. Chrome - 7196A	Metals - 6010C	Mercury - 7470A	Mercury - 7470A	Sample Specific Notes:
STI-B47-SUB-0.17-2	9/19/16	0920	C	S	2	N	M	X	X	X				
STI-B47-SS		0915	C	S	2	N	N	X	X	X				
STI-B46-SS		0930	C	S	2	N	N	X	X	X				
STI-B46-SUB-0.17-2		0935	C	S	2	N	N	X	X	X				
STI-B48-SS		0950	C	S	2	N	N	X	X	X				
STI-B48-SUB-0.17-2	↓	0955	C	S	4	N	Y	X	X	X				STI-MS/MSD-4
STI-FD-6	9/19/16	X	C	S	2	N	N	X	X	X				
STI-EB-1	9/19/16	1515	WC	W	2	N	N			X	X	X	X	

JT 9/19/16

180-58503 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other JT 9/19/16

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: GEO SYNTEC	Date/Time: 9/19/16 1630	Received by:	Company: TA Balt	Date/Time: 9/20/16 0845
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

9/26/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-58503-1

Login Number: 58503
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	

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ANALYTICAL REPORT

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

TestAmerica Job ID: 180-58515-1
Client Project/Site: Former Sperry Remington Site - STI

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

Attn: Mr. Aron Krasnopoler

Authorized for release by:
10/13/2016 2:55:05 PM

David Dunlap, Senior Project Manager
(412)963-2432
dave.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: 180-58515-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-58515-1

Receipt
The samples were received on 9/10/2016 8:45 AM and 9/13/2016 9:20 AM. Three coolers were shipped on 9/8/2016, one was received on 9/9/2016 with the samples logged into job 180-58487-1. Of the two remaining coolers, one was received on 9/10/2016 (within temperature at 5.0º C) and the other was received 9/13/2016 (out of temperature at 12.4º C). The samples received on 9/10/2016 were logged as 180-58515-1 through -5 and the samples received on 9/13/2016 were logged as 180-58515-6 though -15. The samples listed on COC# 147400 were submerged in melted ice and possibly compromised via leakage of water into the containers. These samples were cancelled.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) analyzed in batch 180-188021 was above criteria for the following analyte: butyl benzyl phthalate. As the CCV was high and this analyte was not detected in the associate samples, the results were reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 180-188457 was above criteria for the following analytes: 1,4-dioxane and 2,2-oxybis (1-chloropropane). As the CCV was high and these analytes were not detected in the associate sample, the results were reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 180-188457 was below criteria for the following analytes: 2,4-dintrophenol, 4,6-dinitro-2-methylphenol, and atrazine. A CCV standard at or below the reporting limit (RL) was analyzed with the affected sample 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 8270D: The continuing calibration verification (CCV) analyzed in batch 180-188762 was above criteria for the following analytes: 1,4-dioxane and 2,2-oxybis (1-chloropropane). As the CCV was high and these analytes were not detected in the associate sample, the results were reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 180-188762 was below criteria for the following analytes: benzo[g,h,i]perylene, indeno(1,2,3-cd)perylene, and atrazine. A CCV standard at or below the reporting limit (RL) was analyzed with the affected sample 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. The 50x dilution of sample STI-B38-SS (180-58515-15) was analyzed under this calibration and had detections for benzo[g,h,i]perylene and indeno(1,2,3-cd)perylene.

Method(s) 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: STI-FD-5 (180-58515-2), STI-B40-SS (180-58515-4), STI-B42-SS (180-58515-7), STI-B41-SS (180-58515-11), STI-B41-SUB-0.17-2 (180-58515-12), STI-B39-SS (180-58515-13), and STI-B38-SS (180-58515-15). Elevated reporting limits (RLs) are provided. Several samples had the surrogates diluted out. Several samples had the recovery of surrogate 2,4,6-tribromophenol below the control limits, likely due to the sample matrix.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: STI-B43-SS (180-58515-9). Elevated reporting limits (RLs) are provided. The sample had the recovery of surrogate 2,4,6-tribromophenol below the control limits, likely due to the sample matrix.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 180-188340 recovered above the control limits for the following analyte: 2,2'-oxybis[1-chloropropane]. As the LCS was high and this analyte was not detected in the associate samples, the results were reported.

Method(s) 8270D: The matrix spike/matrix spike duplicate (MS/MSD) recoveries of sample STI-FD-4 (180-58515-1) were below the control limits for 3,3-dichlorobenzidine and 2,4-dinitrophenol. The RPDs 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.

Job ID: 180-58515-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

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
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.
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
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.

Glossary

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

Certification Summary

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

TestAmerica Job ID: 180-58515-1

Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-17

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

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D	3541	Solid	1,4-Dioxane

Sample Summary

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

TestAmerica Job ID: 180-58515-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-58515-1	STI-FD-4	Solid	09/07/16 00:00	09/10/16 08:45
180-58515-2	STI-FD-5	Solid	09/07/16 00:00	09/10/16 08:45
180-58515-3	STI-B38-SUB-0.17-2	Solid	09/07/16 13:45	09/10/16 08:45
180-58515-4	STI-B40-SS	Solid	09/07/16 13:30	09/10/16 08:45
180-58515-5	STI-B40-SUB-0.17-2	Solid	09/07/16 13:55	09/10/16 08:45
180-58515-6	STI-B44-SUB-0.17-2	Solid	09/07/16 12:15	09/13/16 09:20
180-58515-7	STI-B42-SS	Solid	09/07/16 12:05	09/13/16 09:20
180-58515-8	STI-B42-SUB-0.17-2	Solid	09/07/16 12:20	09/13/16 09:20
180-58515-9	STI-B43-SS	Solid	09/07/16 11:50	09/13/16 09:20
180-58515-10	STI-B43-SUB-0.17-2	Solid	09/07/16 12:25	09/13/16 09:20
180-58515-11	STI-B41-SS	Solid	09/07/16 13:15	09/13/16 09:20
180-58515-12	STI-B41-SUB-0.17-2	Solid	09/07/16 13:40	09/13/16 09:20
180-58515-13	STI-B39-SS	Solid	09/07/16 13:20	09/13/16 09:20
180-58515-14	STI-B39-SUB-0.17-2	Solid	09/07/16 13:45	09/13/16 09:20
180-58515-15	STI-B38-SS	Solid	09/07/16 13:25	09/13/16 09:20

Method Summary

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

TestAmerica Job ID: 180-58515-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

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 - STI

TestAmerica Job ID: 180-58515-1

Client Sample ID: STI-FD-4
Date Collected: 09/07/16 00:00
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-1
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			188241	09/16/16 14:54	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-FD-4
Date Collected: 09/07/16 00:00
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-1
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			15.2 g	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	188021	09/15/16 12:52	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-FD-5
Date Collected: 09/07/16 00:00
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-2
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			188241	09/16/16 15:50	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-FD-5
Date Collected: 09/07/16 00:00
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-2
Matrix: Solid
Percent Solids: 99.4

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		30	1 mL	1 mL	188021	09/15/16 14:14	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B38-SUB-0.17-2
Date Collected: 09/07/16 13:45
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-3
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			188241	09/16/16 16:46	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B38-SUB-0.17-2
Date Collected: 09/07/16 13:45
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-3
Matrix: Solid
Percent Solids: 91.7

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT

Client Sample ID: STI-B38-SUB-0.17-2

Lab Sample ID: 180-58515-3
Date Collected: 09/07/16 13:45
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	1 mL	1 mL	188021	09/15/16 14:41	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B40-SS

Lab Sample ID: 180-58515-4
Date Collected: 09/07/16 13:30
Matrix: Solid
Date Received: 09/10/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188241	09/16/16 17:42	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B40-SS

Lab Sample ID: 180-58515-4
Date Collected: 09/07/16 13:30
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 93.3

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		10	1 mL	1 mL	188021	09/15/16 15:09	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B40-SUB-0.17-2

Lab Sample ID: 180-58515-5
Date Collected: 09/07/16 13:55
Matrix: Solid
Date Received: 09/10/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188241	09/16/16 18:38	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B40-SUB-0.17-2

Lab Sample ID: 180-58515-5
Date Collected: 09/07/16 13:55
Matrix: Solid
Date Received: 09/10/16 08:45
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			15.2 g	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	188021	09/15/16 15:36	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B44-SUB-0.17-2

Lab Sample ID: 180-58515-6
Date Collected: 09/07/16 12:15
Matrix: Solid
Date Received: 09/13/16 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			188241	09/16/16 19:34	JWS	TAL PIT

Client Sample ID: STI-B44-SUB-0.17-2
Lab Sample ID: 180-58515-6
Date Collected: 09/07/16 12:15
Matrix: Solid
Date Received: 09/13/16 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			188241	09/16/16 19:34	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B44-SUB-0.17-2
Lab Sample ID: 180-58515-6
Date Collected: 09/07/16 12:15
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 96.9

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	188021	09/15/16 16:03	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B42-SS
Lab Sample ID: 180-58515-7
Date Collected: 09/07/16 12:05
Matrix: Solid
Date Received: 09/13/16 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			188241	09/16/16 20:29	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B42-SS
Lab Sample ID: 180-58515-7
Date Collected: 09/07/16 12:05
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 95.3

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		10	1 mL	1 mL	188021	09/15/16 16:31	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B42-SUB-0.17-2
Lab Sample ID: 180-58515-8
Date Collected: 09/07/16 12:20
Matrix: Solid
Date Received: 09/13/16 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			188241	09/16/16 21:25	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B42-SUB-0.17-2
Lab Sample ID: 180-58515-8
Date Collected: 09/07/16 12:20
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 95.4

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT

Client Sample ID: STI-B42-SUB-0.17-2

Lab Sample ID: 180-58515-8
Date Collected: 09/07/16 12:20
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	1 mL	1 mL	188021	09/15/16 16:58	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B43-SS

Lab Sample ID: 180-58515-9
Date Collected: 09/07/16 11:50
Matrix: Solid
Date Received: 09/13/16 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			188241	09/16/16 22:21	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B43-SS

Lab Sample ID: 180-58515-9
Date Collected: 09/07/16 11:50
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 99.1

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		10	1 mL	1 mL	188021	09/15/16 17:26	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B43-SUB-0.17-2

Lab Sample ID: 180-58515-10
Date Collected: 09/07/16 12:25
Matrix: Solid
Date Received: 09/13/16 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			188241	09/17/16 01:09	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B43-SUB-0.17-2

Lab Sample ID: 180-58515-10
Date Collected: 09/07/16 12:25
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 95.5

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	188021	09/15/16 17:53	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B41-SS

Lab Sample ID: 180-58515-11
Date Collected: 09/07/16 13:15
Matrix: Solid
Date Received: 09/13/16 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			188241	09/17/16 02:05	JWS	TAL PIT

Client Sample ID: STI-B41-SS
Date Collected: 09/07/16 13:15
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-11
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			188241	09/17/16 02:05	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B41-SS
Date Collected: 09/07/16 13:15
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-11
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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		50	1 mL	1 mL	188021	09/15/16 18:21	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B41-SUB-0.17-2
Date Collected: 09/07/16 13:40
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-12
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			188241	09/17/16 03:00	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B41-SUB-0.17-2
Date Collected: 09/07/16 13:40
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-12
Matrix: Solid
Percent Solids: 94.6

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		5	1 mL	1 mL	188021	09/15/16 18:48	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B39-SS
Date Collected: 09/07/16 13:20
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-13
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			188241	09/17/16 03:56	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B39-SS
Date Collected: 09/07/16 13:20
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-13
Matrix: Solid
Percent Solids: 96.4

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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT

Lab Chronicle

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

TestAmerica Job ID: 180-58515-1

Client Sample ID: STI-B39-SS
Date Collected: 09/07/16 13:20
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-13
Matrix: Solid
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		10	1 mL	1 mL	188021	09/15/16 19:15	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B39-SUB-0.17-2
Date Collected: 09/07/16 13:45
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-14
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			188241	09/17/16 04:52	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B39-SUB-0.17-2
Date Collected: 09/07/16 13:45
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-14
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	5.0 mL	187975	09/15/16 03:15	KLG	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	188021	09/15/16 19:43	VVP	TAL PIT
	Instrument ID: CH733									

Client Sample ID: STI-B38-SS
Date Collected: 09/07/16 13:25
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-15
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			188241	09/17/16 05:48	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B38-SS
Date Collected: 09/07/16 13:25
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-15
Matrix: Solid
Percent Solids: 94.2

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	5.0 mL	188340	09/19/16 03:00	KLG	TAL PIT
Total/NA	Analysis	8270D		10	1 mL	1 mL	188457	09/20/16 04:25	FBB	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541	DL		15.2 g	5.0 mL	188340	09/19/16 03:00	KLG	TAL PIT
Total/NA	Analysis	8270D	DL	50	1 mL	1 mL	188762	09/22/16 02:27	FBB	TAL PIT
	Instrument ID: CH71									

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 - STI

TestAmerica Job ID: 180-58515-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KLG = Kevin Geehring

Batch Type: Analysis

FBB = Frank Bungard

JWS = Jim Swanson

VVP = Vincent Piccolino

Client Sample ID: STI-FD-4
Date Collected: 09/07/16 00:00
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-1
Matrix: Solid
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**50**	**J**	68	6.5	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Acenaphthylene	**28**	**J**	68	7.8	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Acetophenone	ND		330	28	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Anthracene	**120**		68	6.6	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Atrazine	ND		330	33	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Benzaldehyde	ND		330	51	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Benzo[a]anthracene	**230**		68	8.5	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Benzo[a]pyrene	**160**		68	6.8	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Benzo[b]fluoranthene	**290**		68	11	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Benzo[g,h,i]perylene	**120**		68	6.7	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Benzo[k]fluoranthene	**78**		68	14	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
1,1'-Biphenyl	**40**	**J**	330	30	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Bis(2-chloroethoxy)methane	ND		330	22	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Bis(2-chloroethyl)ether	ND		68	9.1	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Bis(2-ethylhexyl) phthalate	ND		680	55	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
4-Bromophenyl phenyl ether	ND		330	29	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Butyl benzyl phthalate	ND		330	46	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Caprolactam	ND		1700	260	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Carbazole	**48**	**J**	68	6.2	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
4-Chloroaniline	ND		330	27	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
4-Chloro-3-methylphenol	ND		330	31	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2-Chloronaphthalene	ND		68	7.1	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2-Chlorophenol	ND		330	28	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
4-Chlorophenyl phenyl ether	ND		330	38	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Chrysene	**270**		68	8.1	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Dibenz(a,h)anthracene	**47**	**J**	68	7.5	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Dibenzofuran	**110**	**J**	330	33	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
3,3'-Dichlorobenzidine	ND	F1	330	36	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2,4-Dichlorophenol	ND		68	6.8	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Diethyl phthalate	ND		330	37	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2,4-Dimethylphenol	ND		330	53	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Dimethyl phthalate	ND		330	37	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Di-n-butyl phthalate	ND		330	42	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
4,6-Dinitro-2-methylphenol	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2,4-Dinitrophenol	ND	F1	1700	400	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2,4-Dinitrotoluene	ND		330	27	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2,6-Dinitrotoluene	ND		330	35	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Di-n-octyl phthalate	ND		330	36	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
1,4-Dioxane	ND		680	39	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Fluoranthene	**380**		68	7.2	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Fluorene	**47**	**J**	68	8.9	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Hexachlorobenzene	ND		68	7.2	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Hexachlorobutadiene	ND		68	7.6	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Hexachlorocyclopentadiene	ND		330	36	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Hexachloroethane	ND		330	24	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Indeno[1,2,3-cd]pyrene	**110**		68	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Isophorone	ND		330	26	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2-Methylnaphthalene	**200**		68	6.1	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2-Methylphenol	ND		330	24	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1

Client Sample ID: STI-FD-4

Date Collected: 09/07/16 00:00
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-1

Matrix: Solid
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		330	33	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Naphthalene	**200**		68	5.8	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2-Nitroaniline	ND		1700	150	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
3-Nitroaniline	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
4-Nitroaniline	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Nitrobenzene	ND		680	28	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2-Nitrophenol	ND		330	37	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
4-Nitrophenol	ND		1700	120	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
N-Nitrosodi-n-propylamine	ND		68	7.9	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
N-Nitrosodiphenylamine	ND		330	31	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2,2'-oxybis[1-chloropropane]	ND		68	7.3	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Pentachlorophenol	ND		330	30	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Phenanthrene	**510**		68	11	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Phenol	ND		68	8.0	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
Pyrene	**410**		68	6.8	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
1,2,4,5-Tetrachlorobenzene	ND		330	26	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2,3,4,6-Tetrachlorophenol	ND		330	22	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2,4,5-Trichlorophenol	ND		330	36	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1
2,4,6-Trichlorophenol	ND		330	51	ug/Kg	☼	09/15/16 03:15	09/15/16 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 100*	*09/15/16 03:15*	*09/15/16 12:52*	*1*
2-Fluorophenol (Surr)	*51*		*24 - 109*	*09/15/16 03:15*	*09/15/16 12:52*	*1*
Nitrobenzene-d5 (Surr)	*64*		*31 - 105*	*09/15/16 03:15*	*09/15/16 12:52*	*1*
Phenol-d5 (Surr)	*53*		*24 - 106*	*09/15/16 03:15*	*09/15/16 12:52*	*1*
Terphenyl-d14 (Surr)	*73*		*34 - 104*	*09/15/16 03:15*	*09/15/16 12:52*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*21 - 114*	*09/15/16 03:15*	*09/15/16 12:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.7**		0.1	0.1	%			09/16/16 14:54	1
Percent Solids	**97.3**		0.1	0.1	%			09/16/16 14:54	1

Client Sample ID: STI-FD-5

Date Collected: 09/07/16 00:00
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-2

Matrix: Solid
Percent Solids: 99.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**26000**		2000	190	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Acenaphthylene	**1700**	**J**	2000	230	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Acetophenone	ND		10000	830	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Anthracene	**50000**		2000	200	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Atrazine	ND		10000	980	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Benzaldehyde	ND		10000	1500	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Benzo[a]anthracene	**67000**		2000	250	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Benzo[a]pyrene	**48000**		2000	200	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Benzo[b]fluoranthene	**67000**		2000	320	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Benzo[g,h,i]perylene	**24000**		2000	200	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Benzo[k]fluoranthene	**19000**		2000	410	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30

Client Sample ID: STI-FD-5
Date Collected: 09/07/16 00:00
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-2
Matrix: Solid
Percent Solids: 99.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**2700**	**J**	10000	900	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Bis(2-chloroethoxy)methane	ND		10000	660	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Bis(2-chloroethyl)ether	ND		2000	270	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Bis(2-ethylhexyl) phthalate	ND		20000	1600	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
4-Bromophenyl phenyl ether	ND		10000	880	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Butyl benzyl phthalate	ND		10000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Caprolactam	ND		51000	7600	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Carbazole	**19000**		2000	190	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
4-Chloroaniline	ND		10000	810	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
4-Chloro-3-methylphenol	ND		10000	930	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2-Chloronaphthalene	ND		2000	210	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2-Chlorophenol	ND		10000	820	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
4-Chlorophenyl phenyl ether	ND		10000	1100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Chrysene	**55000**		2000	240	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Dibenz(a,h)anthracene	**9100**		2000	220	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Dibenzofuran	**19000**		10000	990	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
3,3'-Dichlorobenzidine	ND		10000	1100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2,4-Dichlorophenol	ND		2000	200	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Diethyl phthalate	ND		10000	1100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2,4-Dimethylphenol	ND		10000	1600	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Dimethyl phthalate	ND		10000	1100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Di-n-butyl phthalate	ND		10000	1300	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
4,6-Dinitro-2-methylphenol	ND		51000	4000	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2,4-Dinitrophenol	ND		51000	12000	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2,4-Dinitrotoluene	ND		10000	810	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2,6-Dinitrotoluene	ND		10000	1000	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Di-n-octyl phthalate	ND		10000	1100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
1,4-Dioxane	ND		20000	1200	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Fluoranthene	**130000**		2000	220	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Fluorene	**26000**		2000	270	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Hexachlorobenzene	ND		2000	210	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Hexachlorobutadiene	ND		2000	230	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Hexachlorocyclopentadiene	ND		10000	1100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Hexachloroethane	ND		10000	720	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Indeno[1,2,3-cd]pyrene	**25000**		2000	210	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Isophorone	ND		10000	760	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2-Methylnaphthalene	**11000**		2000	180	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2-Methylphenol	ND		10000	700	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Methylphenol, 3 & 4	ND		10000	990	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Naphthalene	**22000**		2000	170	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2-Nitroaniline	ND		51000	4500	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
3-Nitroaniline	ND		51000	4100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
4-Nitroaniline	ND		51000	4100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Nitrobenzene	ND		20000	840	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2-Nitrophenol	ND		10000	1100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
4-Nitrophenol	ND		51000	3700	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
N-Nitrosodi-n-propylamine	ND		2000	240	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
N-Nitrosodiphenylamine	ND		10000	930	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2,2'-oxybis[1-chloropropane]	ND		2000	220	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30

Client Sample ID: STI-FD-5

Date Collected: 09/07/16 00:00
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-2
Matrix: Solid
Percent Solids: 99.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		10000	900	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Phenanthrene	**160000**		2000	320	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Phenol	ND		2000	240	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
Pyrene	**110000**		2000	200	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
1,2,4,5-Tetrachlorobenzene	ND		10000	760	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2,3,4,6-Tetrachlorophenol	ND		10000	650	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2,4,5-Trichlorophenol	ND		10000	1100	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30
2,4,6-Trichlorophenol	ND		10000	1500	ug/Kg	☼	09/15/16 03:15	09/15/16 14:14	30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D X*	*34 - 100*	*09/15/16 03:15*	*09/15/16 14:14*	*30*
2-Fluorophenol (Surr)	*0*	*D X*	*24 - 109*	*09/15/16 03:15*	*09/15/16 14:14*	*30*
Nitrobenzene-d5 (Surr)	*0*	*D X*	*31 - 105*	*09/15/16 03:15*	*09/15/16 14:14*	*30*
Phenol-d5 (Surr)	*0*	*D X*	*24 - 106*	*09/15/16 03:15*	*09/15/16 14:14*	*30*
Terphenyl-d14 (Surr)	*0*	*D X*	*34 - 104*	*09/15/16 03:15*	*09/15/16 14:14*	*30*
2,4,6-Tribromophenol (Surr)	*0*	*D X*	*21 - 114*	*09/15/16 03:15*	*09/15/16 14:14*	*30*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**0.6**		0.1	0.1	%			09/16/16 15:50	1
Percent Solids	**99.4**		0.1	0.1	%			09/16/16 15:50	1

Client Sample ID: STI-B38-SUB-0.17-2

Date Collected: 09/07/16 13:45
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-3
Matrix: Solid
Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**160**		72	6.9	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Acenaphthylene	**21**	**J**	72	8.2	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Acetophenone	ND		360	30	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Anthracene	**320**		72	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Atrazine	ND		360	35	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Benzaldehyde	ND		360	54	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Benzo[a]anthracene	**510**		72	9.0	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Benzo[a]pyrene	**340**		72	7.2	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Benzo[b]fluoranthene	**460**		72	11	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Benzo[g,h,i]perylene	**190**		72	7.1	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Benzo[k]fluoranthene	**240**		72	15	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
1,1'-Biphenyl	ND		360	32	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Bis(2-chloroethoxy)methane	ND		360	24	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Bis(2-chloroethyl)ether	ND		72	9.6	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Bis(2-ethylhexyl) phthalate	ND		720	58	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
4-Bromophenyl phenyl ether	ND		360	31	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Butyl benzyl phthalate	ND		360	49	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Caprolactam	ND		1800	270	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Carbazole	**120**		72	6.6	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
4-Chloroaniline	ND		360	29	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
4-Chloro-3-methylphenol	ND		360	33	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2-Chloronaphthalene	ND		72	7.5	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1

Client Sample ID: STI-B38-SUB-0.17-2
Date Collected: 09/07/16 13:45
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-3
Matrix: Solid
Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		360	29	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
4-Chlorophenyl phenyl ether	ND		360	40	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Chrysene	**460**		72	8.5	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Dibenz(a,h)anthracene	**81**		72	8.0	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Dibenzofuran	**150**	**J**	360	35	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
3,3'-Dichlorobenzidine	ND		360	38	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2,4-Dichlorophenol	ND		72	7.2	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Diethyl phthalate	ND		360	39	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2,4-Dimethylphenol	ND		360	56	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Dimethyl phthalate	ND		360	39	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Di-n-butyl phthalate	ND		360	45	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
4,6-Dinitro-2-methylphenol	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2,4-Dinitrophenol	ND		1800	430	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2,4-Dinitrotoluene	ND		360	29	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2,6-Dinitrotoluene	ND		360	37	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Di-n-octyl phthalate	ND		360	38	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
1,4-Dioxane	ND		720	41	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Fluoranthene	**960**		72	7.7	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Fluorene	**160**		72	9.5	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Hexachlorobenzene	ND		72	7.6	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Hexachlorobutadiene	ND		72	8.0	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Hexachlorocyclopentadiene	ND		360	39	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Hexachloroethane	ND		360	26	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Indeno[1,2,3-cd]pyrene	**190**		72	7.4	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Isophorone	ND		360	27	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2-Methylnaphthalene	**190**		72	6.5	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2-Methylphenol	ND		360	25	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Methylphenol, 3 & 4	ND		360	35	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Naphthalene	**160**		72	6.2	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2-Nitroaniline	ND		1800	160	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
3-Nitroaniline	ND		1800	150	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
4-Nitroaniline	ND		1800	150	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Nitrobenzene	ND		720	30	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2-Nitrophenol	ND		360	40	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
4-Nitrophenol	ND		1800	130	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
N-Nitrosodi-n-propylamine	ND		72	8.4	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
N-Nitrosodiphenylamine	ND		360	33	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2,2'-oxybis[1-chloropropane]	ND		72	7.7	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Pentachlorophenol	ND		360	32	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Phenanthrene	**1200**		72	11	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Phenol	ND		72	8.5	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
Pyrene	**840**		72	7.3	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
1,2,4,5-Tetrachlorobenzene	ND		360	27	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2,3,4,6-Tetrachlorophenol	ND		360	23	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2,4,5-Trichlorophenol	ND		360	38	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1
2,4,6-Trichlorophenol	ND		360	54	ug/Kg	☼	09/15/16 03:15	09/15/16 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*34 - 100*	*09/15/16 03:15*	*09/15/16 14:41*	*1*
2-Fluorophenol (Surr)	*48*		*24 - 109*	*09/15/16 03:15*	*09/15/16 14:41*	*1*

Client Sample ID: STI-B38-SUB-0.17-2

Lab Sample ID: 180-58515-3
Date Collected: 09/07/16 13:45
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 91.7

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*63*		*31 - 105*	*09/15/16 03:15*	*09/15/16 14:41*	*1*
Phenol-d5 (Surr)	*49*		*24 - 106*	*09/15/16 03:15*	*09/15/16 14:41*	*1*
Terphenyl-d14 (Surr)	*65*		*34 - 104*	*09/15/16 03:15*	*09/15/16 14:41*	*1*
2,4,6-Tribromophenol (Surr)	*33*		*21 - 114*	*09/15/16 03:15*	*09/15/16 14:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		0.1	0.1	%			09/16/16 16:46	1
Percent Solids	**91.7**		0.1	0.1	%			09/16/16 16:46	1

Client Sample ID: STI-B40-SS

Lab Sample ID: 180-58515-4
Date Collected: 09/07/16 13:30
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**5400**		720	69	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Acenaphthylene	**370**	**J**	720	82	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Acetophenone	ND		3500	290	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Anthracene	**11000**		720	70	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Atrazine	ND		3500	350	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Benzaldehyde	ND		3500	540	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Benzo[a]anthracene	**17000**		720	90	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Benzo[a]pyrene	**13000**		720	72	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Benzo[b]fluoranthene	**17000**		720	110	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Benzo[g,h,i]perylene	**6500**		720	71	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Benzo[k]fluoranthene	**6400**		720	140	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
1,1'-Biphenyl	**500**	**J**	3500	320	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Bis(2-chloroethoxy)methane	ND		3500	240	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Bis(2-chloroethyl)ether	ND		720	96	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Bis(2-ethylhexyl) phthalate	ND		7200	580	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
4-Bromophenyl phenyl ether	ND		3500	310	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Butyl benzyl phthalate	ND		3500	490	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Caprolactam	ND		18000	2700	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Carbazole	**4000**		720	66	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
4-Chloroaniline	ND		3500	290	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
4-Chloro-3-methylphenol	ND		3500	330	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2-Chloronaphthalene	ND		720	75	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2-Chlorophenol	ND		3500	290	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
4-Chlorophenyl phenyl ether	ND		3500	400	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Chrysene	**14000**		720	85	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Dibenz(a,h)anthracene	**2400**		720	80	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Dibenzofuran	**3600**		3500	350	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
3,3'-Dichlorobenzidine	ND		3500	380	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2,4-Dichlorophenol	ND		720	72	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Diethyl phthalate	ND		3500	390	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2,4-Dimethylphenol	ND		3500	560	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Dimethyl phthalate	ND		3500	390	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Di-n-butyl phthalate	ND		3500	450	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10

Client Sample ID: STI-B40-SS
Date Collected: 09/07/16 13:30
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-4
Matrix: Solid
Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2,4-Dinitrophenol	ND		18000	4300	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2,4-Dinitrotoluene	ND		3500	290	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2,6-Dinitrotoluene	ND		3500	370	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Di-n-octyl phthalate	ND		3500	380	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
1,4-Dioxane	ND		7200	410	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Fluoranthene	**33000**		720	76	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Fluorene	**5200**		720	94	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Hexachlorobenzene	ND		720	76	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Hexachlorobutadiene	ND		720	80	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Hexachlorocyclopentadiene	ND		3500	390	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Hexachloroethane	ND		3500	260	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Indeno[1,2,3-cd]pyrene	**6700**		720	74	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Isophorone	ND		3500	270	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2-Methylnaphthalene	**1800**		720	64	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2-Methylphenol	ND		3500	250	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Methylphenol, 3 & 4	ND		3500	350	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Naphthalene	**3200**		720	62	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2-Nitroaniline	ND		18000	1600	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
3-Nitroaniline	ND		18000	1500	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
4-Nitroaniline	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Nitrobenzene	ND		7200	300	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2-Nitrophenol	ND		3500	390	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
4-Nitrophenol	ND		18000	1300	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
N-Nitrosodi-n-propylamine	ND		720	84	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
N-Nitrosodiphenylamine	ND		3500	330	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2,2'-oxybis[1-chloropropane]	ND		720	77	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Pentachlorophenol	ND		3500	320	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Phenanthrene	**37000**		720	110	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Phenol	ND		720	84	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
Pyrene	**29000**		720	72	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
1,2,4,5-Tetrachlorobenzene	ND		3500	270	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2,3,4,6-Tetrachlorophenol	ND		3500	230	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2,4,5-Trichlorophenol	ND		3500	380	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10
2,4,6-Trichlorophenol	ND		3500	540	ug/Kg	☼	09/15/16 03:15	09/15/16 15:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 100*	*09/15/16 03:15*	*09/15/16 15:09*	*10*
2-Fluorophenol (Surr)	*70*		*24 - 109*	*09/15/16 03:15*	*09/15/16 15:09*	*10*
Nitrobenzene-d5 (Surr)	*77*		*31 - 105*	*09/15/16 03:15*	*09/15/16 15:09*	*10*
Phenol-d5 (Surr)	*67*		*24 - 106*	*09/15/16 03:15*	*09/15/16 15:09*	*10*
Terphenyl-d14 (Surr)	*76*		*34 - 104*	*09/15/16 03:15*	*09/15/16 15:09*	*10*
2,4,6-Tribromophenol (Surr)	*13*	*X*	*21 - 114*	*09/15/16 03:15*	*09/15/16 15:09*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.7**		0.1	0.1	%			09/16/16 17:42	1
Percent Solids	**93.3**		0.1	0.1	%			09/16/16 17:42	1

Client Sample ID: STI-B40-SUB-0.17-2
Date Collected: 09/07/16 13:55
Date Received: 09/10/16 08:45

Lab Sample ID: 180-58515-5
Matrix: Solid
Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**580**		71	6.7	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Acenaphthylene	**20**	**J**	71	8.0	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Acetophenone	ND		350	29	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Anthracene	**970**		71	6.9	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Atrazine	ND		350	34	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Benzaldehyde	ND		350	53	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Benzo[a]anthracene	**1500**		71	8.8	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Benzo[a]pyrene	**1000**		71	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Benzo[b]fluoranthene	**1400**		71	11	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Benzo[g,h,i]perylene	**550**		71	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Benzo[k]fluoranthene	**520**		71	14	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
1,1'-Biphenyl	**58**	**J**	350	31	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Bis(2-chloroethoxy)methane	ND		350	23	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Bis(2-chloroethyl)ether	ND		71	9.4	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Bis(2-ethylhexyl) phthalate	ND		710	57	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
4-Bromophenyl phenyl ether	ND		350	31	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Butyl benzyl phthalate	ND		350	48	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Caprolactam	ND		1800	270	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Carbazole	**390**		71	6.5	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
4-Chloroaniline	ND		350	28	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
4-Chloro-3-methylphenol	ND		350	32	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2-Chloronaphthalene	ND		71	7.3	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2-Chlorophenol	ND		350	29	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
4-Chlorophenyl phenyl ether	ND		350	39	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Chrysene	**1100**		71	8.4	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Dibenz(a,h)anthracene	**180**		71	7.8	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Dibenzofuran	**400**		350	35	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
3,3'-Dichlorobenzidine	ND		350	37	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2,4-Dichlorophenol	ND		71	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Diethyl phthalate	ND		350	38	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2,4-Dimethylphenol	ND		350	55	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Dimethyl phthalate	ND		350	38	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Di-n-butyl phthalate	ND		350	44	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
4,6-Dinitro-2-methylphenol	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2,4-Dinitrophenol	ND		1800	420	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2,4-Dinitrotoluene	ND		350	28	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2,6-Dinitrotoluene	ND		350	36	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Di-n-octyl phthalate	ND		350	37	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
1,4-Dioxane	ND		710	40	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Fluoranthene	**2800**		71	7.5	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Fluorene	**560**		71	9.3	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Hexachlorobenzene	ND		71	7.5	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Hexachlorobutadiene	ND		71	7.9	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Hexachlorocyclopentadiene	ND		350	38	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Hexachloroethane	ND		350	25	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Indeno[1,2,3-cd]pyrene	**570**		71	7.2	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Isophorone	ND		350	26	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2-Methylnaphthalene	**220**		71	6.3	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2-Methylphenol	ND		350	25	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1

Client Sample ID: STI-B40-SUB-0.17-2

Lab Sample ID: 180-58515-5
Date Collected: 09/07/16 13:55
Matrix: Solid
Date Received: 09/10/16 08:45
Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		350	34	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Naphthalene	**460**		71	6.1	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2-Nitroaniline	ND		1800	160	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
3-Nitroaniline	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
4-Nitroaniline	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Nitrobenzene	ND		710	29	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2-Nitrophenol	ND		350	39	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
4-Nitrophenol	ND		1800	130	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
N-Nitrosodi-n-propylamine	ND		71	8.2	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
N-Nitrosodiphenylamine	ND		350	33	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2,2'-oxybis[1-chloropropane]	ND		71	7.6	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Pentachlorophenol	ND		350	31	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Phenanthrene	**3500**		71	11	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Phenol	ND		71	8.3	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
Pyrene	**2600**		71	7.1	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
1,2,4,5-Tetrachlorobenzene	ND		350	27	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2,3,4,6-Tetrachlorophenol	ND		350	23	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2,4,5-Trichlorophenol	ND		350	37	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1
2,4,6-Trichlorophenol	ND		350	53	ug/Kg	☼	09/15/16 03:15	09/15/16 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*34 - 100*	*09/15/16 03:15*	*09/15/16 15:36*	*1*
2-Fluorophenol (Surr)	*58*		*24 - 109*	*09/15/16 03:15*	*09/15/16 15:36*	*1*
Nitrobenzene-d5 (Surr)	*63*		*31 - 105*	*09/15/16 03:15*	*09/15/16 15:36*	*1*
Phenol-d5 (Surr)	*56*		*24 - 106*	*09/15/16 03:15*	*09/15/16 15:36*	*1*
Terphenyl-d14 (Surr)	*67*		*34 - 104*	*09/15/16 03:15*	*09/15/16 15:36*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*21 - 114*	*09/15/16 03:15*	*09/15/16 15:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.2**		0.1	0.1	%			09/16/16 18:38	1
Percent Solids	**93.8**		0.1	0.1	%			09/16/16 18:38	1

Client Sample ID: STI-B44-SUB-0.17-2

Lab Sample ID: 180-58515-6
Date Collected: 09/07/16 12:15
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**71**		69	6.6	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Acenaphthylene	**650**		69	7.8	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Acetophenone	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Anthracene	**390**		69	6.7	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Atrazine	ND		340	33	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Benzaldehyde	ND		340	51	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Benzo[a]anthracene	**1300**		69	8.6	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Benzo[a]pyrene	**1400**		69	6.8	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Benzo[b]fluoranthene	**1900**		69	11	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Benzo[g,h,i]perylene	**1200**		69	6.8	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Benzo[k]fluoranthene	**780**		69	14	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1

Client Sample ID: STI-B44-SUB-0.17-2
Date Collected: 09/07/16 12:15
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-6
Matrix: Solid
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		340	30	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Bis(2-chloroethoxy)methane	ND		340	23	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Bis(2-chloroethyl)ether	ND		69	9.2	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Bis(2-ethylhexyl) phthalate	ND		690	55	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
4-Bromophenyl phenyl ether	ND		340	30	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Butyl benzyl phthalate	ND		340	47	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Caprolactam	ND		1700	260	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Carbazole	**83**		69	6.3	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
4-Chloroaniline	ND		340	27	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
4-Chloro-3-methylphenol	ND		340	31	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2-Chloronaphthalene	ND		69	7.1	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2-Chlorophenol	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
4-Chlorophenyl phenyl ether	ND		340	38	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Chrysene	**1500**		69	8.1	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Dibenz(a,h)anthracene	**290**		69	7.6	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Dibenzofuran	**46**	**J**	340	34	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
3,3'-Dichlorobenzidine	ND		340	36	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2,4-Dichlorophenol	ND		69	6.9	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Diethyl phthalate	ND		340	37	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2,4-Dimethylphenol	ND		340	53	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Dimethyl phthalate	ND		340	37	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Di-n-butyl phthalate	ND		340	43	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
4,6-Dinitro-2-methylphenol	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2,4-Dinitrophenol	ND		1700	410	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2,4-Dinitrotoluene	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2,6-Dinitrotoluene	ND		340	35	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Di-n-octyl phthalate	ND		340	36	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
1,4-Dioxane	ND		690	39	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Fluoranthene	**1900**		69	7.3	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Fluorene	**93**		69	9.0	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Hexachlorobenzene	ND		69	7.3	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Hexachlorobutadiene	ND		69	7.6	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Hexachlorocyclopentadiene	ND		340	37	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Hexachloroethane	ND		340	25	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Indeno[1,2,3-cd]pyrene	**960**		69	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Isophorone	ND		340	26	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2-Methylnaphthalene	**49**	**J**	69	6.1	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2-Methylphenol	ND		340	24	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Methylphenol, 3 & 4	ND		340	33	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Naphthalene	**69**		69	5.9	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2-Nitroaniline	ND		1700	150	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
3-Nitroaniline	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
4-Nitroaniline	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Nitrobenzene	ND		690	28	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2-Nitrophenol	ND		340	38	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
4-Nitrophenol	ND		1700	120	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
N-Nitrosodi-n-propylamine	ND		69	8.0	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
N-Nitrosodiphenylamine	ND		340	32	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2,2'-oxybis[1-chloropropane]	ND		69	7.4	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1

Client Sample ID: STI-B44-SUB-0.17-2

Lab Sample ID: 180-58515-6
Date Collected: 09/07/16 12:15
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		340	31	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Phenanthrene	**970**		69	11	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Phenol	ND		69	8.1	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
Pyrene	**2500**		69	6.9	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
1,2,4,5-Tetrachlorobenzene	ND		340	26	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2,3,4,6-Tetrachlorophenol	ND		340	22	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2,4,5-Trichlorophenol	ND		340	36	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1
2,4,6-Trichlorophenol	ND		340	51	ug/Kg	☼	09/15/16 03:15	09/15/16 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*34 - 100*	*09/15/16 03:15*	*09/15/16 16:03*	*1*
2-Fluorophenol (Surr)	*62*		*24 - 109*	*09/15/16 03:15*	*09/15/16 16:03*	*1*
Nitrobenzene-d5 (Surr)	*69*		*31 - 105*	*09/15/16 03:15*	*09/15/16 16:03*	*1*
Phenol-d5 (Surr)	*60*		*24 - 106*	*09/15/16 03:15*	*09/15/16 16:03*	*1*
Terphenyl-d14 (Surr)	*77*		*34 - 104*	*09/15/16 03:15*	*09/15/16 16:03*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*21 - 114*	*09/15/16 03:15*	*09/15/16 16:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.1**		0.1	0.1	%			09/16/16 19:34	1
Percent Solids	**96.9**		0.1	0.1	%			09/16/16 19:34	1

Client Sample ID: STI-B42-SS

Lab Sample ID: 180-58515-7
Date Collected: 09/07/16 12:05
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**470**	**J**	700	67	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Acenaphthylene	**6100**		700	80	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Acetophenone	ND		3500	290	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Anthracene	**3700**		700	68	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Atrazine	ND		3500	340	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Benzaldehyde	ND		3500	520	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Benzo[a]anthracene	**10000**		700	88	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Benzo[a]pyrene	**12000**		700	70	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Benzo[b]fluoranthene	**18000**		700	110	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Benzo[g,h,i]perylene	**10000**		700	70	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Benzo[k]fluoranthene	**6000**		700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
1,1'-Biphenyl	ND		3500	310	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Bis(2-chloroethoxy)methane	ND		3500	230	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Bis(2-chloroethyl)ether	ND		700	94	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Bis(2-ethylhexyl) phthalate	ND		7000	570	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
4-Bromophenyl phenyl ether	ND		3500	300	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Butyl benzyl phthalate	ND		3500	480	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Caprolactam	ND		18000	2600	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Carbazole	**610**	**J**	700	64	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
4-Chloroaniline	ND		3500	280	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
4-Chloro-3-methylphenol	ND		3500	320	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2-Chloronaphthalene	ND		700	73	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10

Client Sample ID: STI-B42-SS
Date Collected: 09/07/16 12:05
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-7
Matrix: Solid
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		3500	290	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
4-Chlorophenyl phenyl ether	ND		3500	390	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Chrysene	**12000**		700	83	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Dibenz(a,h)anthracene	**2600**		700	78	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Dibenzofuran	ND		3500	340	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
3,3'-Dichlorobenzidine	ND		3500	370	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2,4-Dichlorophenol	ND		700	70	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Diethyl phthalate	ND		3500	380	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2,4-Dimethylphenol	ND		3500	550	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Dimethyl phthalate	ND		3500	380	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Di-n-butyl phthalate	ND		3500	440	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
4,6-Dinitro-2-methylphenol	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2,4-Dinitrophenol	ND		18000	4200	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2,4-Dinitrotoluene	ND		3500	280	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2,6-Dinitrotoluene	ND		3500	360	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Di-n-octyl phthalate	ND		3500	370	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
1,4-Dioxane	ND		7000	400	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Fluoranthene	**15000**		700	75	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Fluorene	**720**		700	92	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Hexachlorobenzene	ND		700	75	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Hexachlorobutadiene	ND		700	78	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Hexachlorocyclopentadiene	ND		3500	380	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Hexachloroethane	ND		3500	250	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Indeno[1,2,3-cd]pyrene	**8500**		700	72	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Isophorone	ND		3500	260	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2-Methylnaphthalene	**510**	**J**	700	63	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2-Methylphenol	ND		3500	240	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Methylphenol, 3 & 4	ND		3500	340	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Naphthalene	**800**		700	60	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2-Nitroaniline	ND		18000	1600	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
3-Nitroaniline	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
4-Nitroaniline	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Nitrobenzene	ND		7000	290	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2-Nitrophenol	ND		3500	390	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
4-Nitrophenol	ND		18000	1300	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
N-Nitrosodi-n-propylamine	ND		700	82	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
N-Nitrosodiphenylamine	ND		3500	320	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2,2'-oxybis[1-chloropropane]	ND		700	76	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Pentachlorophenol	ND		3500	310	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Phenanthrene	**6000**		700	110	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Phenol	ND		700	83	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
Pyrene	**19000**		700	71	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
1,2,4,5-Tetrachlorobenzene	ND		3500	270	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2,3,4,6-Tetrachlorophenol	ND		3500	220	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2,4,5-Trichlorophenol	ND		3500	370	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10
2,4,6-Trichlorophenol	ND		3500	520	ug/Kg	☼	09/15/16 03:15	09/15/16 16:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 100*	*09/15/16 03:15*	*09/15/16 16:31*	*10*
2-Fluorophenol (Surr)	*64*		*24 - 109*	*09/15/16 03:15*	*09/15/16 16:31*	*10*

Client Sample ID: STI-B42-SS

Lab Sample ID: 180-58515-7
Date Collected: 09/07/16 12:05
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 95.3

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*75*		*31 - 105*	*09/15/16 03:15*	*09/15/16 16:31*	*10*
Phenol-d5 (Surr)	*59*		*24 - 106*	*09/15/16 03:15*	*09/15/16 16:31*	*10*
Terphenyl-d14 (Surr)	*72*		*34 - 104*	*09/15/16 03:15*	*09/15/16 16:31*	*10*
2,4,6-Tribromophenol (Surr)	*13*	*X*	*21 - 114*	*09/15/16 03:15*	*09/15/16 16:31*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.7**		0.1	0.1	%			09/16/16 20:29	1
Percent Solids	**95.3**		0.1	0.1	%			09/16/16 20:29	1

Client Sample ID: STI-B42-SUB-0.17-2

Lab Sample ID: 180-58515-8
Date Collected: 09/07/16 12:20
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**25**	**J**	70	6.7	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Acenaphthylene	**520**		70	8.0	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Acetophenone	ND		340	29	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Anthracene	**270**		70	6.8	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Atrazine	ND		340	34	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Benzaldehyde	ND		340	52	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Benzo[a]anthracene	**700**		70	8.7	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Benzo[a]pyrene	**760**		70	6.9	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Benzo[b]fluoranthene	**1200**		70	11	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Benzo[g,h,i]perylene	**740**		70	6.9	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Benzo[k]fluoranthene	**330**		70	14	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
1,1'-Biphenyl	ND		340	31	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Bis(2-chloroethoxy)methane	ND		340	23	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Bis(2-chloroethyl)ether	ND		70	9.3	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Bis(2-ethylhexyl) phthalate	**120**	**J**	700	56	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
4-Bromophenyl phenyl ether	ND		340	30	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Butyl benzyl phthalate	ND		340	47	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Caprolactam	ND		1800	260	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Carbazole	**36**	**J**	70	6.4	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
4-Chloroaniline	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
4-Chloro-3-methylphenol	ND		340	32	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2-Chloronaphthalene	ND		70	7.2	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2-Chlorophenol	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
4-Chlorophenyl phenyl ether	ND		340	39	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Chrysene	**790**		70	8.3	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Dibenz(a,h)anthracene	**180**		70	7.7	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Dibenzofuran	ND		340	34	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
3,3'-Dichlorobenzidine	ND		340	37	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2,4-Dichlorophenol	ND		70	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Diethyl phthalate	ND		340	38	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2,4-Dimethylphenol	ND		340	54	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Dimethyl phthalate	ND		340	38	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Di-n-butyl phthalate	ND		340	44	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1

Client Sample ID: STI-B42-SUB-0.17-2
Date Collected: 09/07/16 12:20
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-8
Matrix: Solid
Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2,4-Dinitrophenol	ND		1800	410	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2,4-Dinitrotoluene	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2,6-Dinitrotoluene	ND		340	36	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Di-n-octyl phthalate	ND		340	37	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
1,4-Dioxane	ND		700	40	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Fluoranthene	**990**		70	7.4	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Fluorene	**55**	**J**	70	9.2	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Hexachlorobenzene	ND		70	7.4	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Hexachlorobutadiene	ND		70	7.8	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Hexachlorocyclopentadiene	ND		340	37	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Hexachloroethane	ND		340	25	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Indeno[1,2,3-cd]pyrene	**610**		70	7.2	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Isophorone	ND		340	26	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2-Methylnaphthalene	**68**	**J**	70	6.2	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2-Methylphenol	ND		340	24	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Methylphenol, 3 & 4	ND		340	34	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Naphthalene	**110**		70	6.0	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2-Nitroaniline	ND		1800	160	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
3-Nitroaniline	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
4-Nitroaniline	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Nitrobenzene	ND		700	29	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2-Nitrophenol	ND		340	38	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
4-Nitrophenol	ND		1800	130	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
N-Nitrosodi-n-propylamine	ND		70	8.1	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
N-Nitrosodiphenylamine	ND		340	32	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2,2'-oxybis[1-chloropropane]	ND		70	7.5	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Pentachlorophenol	ND		340	31	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Phenanthrene	**460**		70	11	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Phenol	ND		70	8.2	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
Pyrene	**1300**		70	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
1,2,4,5-Tetrachlorobenzene	ND		340	26	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2,3,4,6-Tetrachlorophenol	ND		340	22	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2,4,5-Trichlorophenol	ND		340	37	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1
2,4,6-Trichlorophenol	ND		340	52	ug/Kg	☼	09/15/16 03:15	09/15/16 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 100*	*09/15/16 03:15*	*09/15/16 16:58*	*1*
2-Fluorophenol (Surr)	*57*		*24 - 109*	*09/15/16 03:15*	*09/15/16 16:58*	*1*
Nitrobenzene-d5 (Surr)	*65*		*31 - 105*	*09/15/16 03:15*	*09/15/16 16:58*	*1*
Phenol-d5 (Surr)	*55*		*24 - 106*	*09/15/16 03:15*	*09/15/16 16:58*	*1*
Terphenyl-d14 (Surr)	*66*		*34 - 104*	*09/15/16 03:15*	*09/15/16 16:58*	*1*
2,4,6-Tribromophenol (Surr)	*32*		*21 - 114*	*09/15/16 03:15*	*09/15/16 16:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.6**		0.1	0.1	%			09/16/16 21:25	1
Percent Solids	**95.4**		0.1	0.1	%			09/16/16 21:25	1

Client Sample ID: STI-B43-SS
Date Collected: 09/07/16 11:50
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-9
Matrix: Solid
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**220**	**J**	670	64	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Acenaphthylene	**3200**		670	77	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Acetophenone	ND		3300	270	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Anthracene	**2100**		670	65	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Atrazine	ND		3300	330	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Benzaldehyde	ND		3300	500	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Benzo[a]anthracene	**6500**		670	84	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Benzo[a]pyrene	**5600**		670	67	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Benzo[b]fluoranthene	**8600**		670	110	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Benzo[g,h,i]perylene	**5000**		670	67	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Benzo[k]fluoranthene	**3300**		670	140	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
1,1'-Biphenyl	ND		3300	300	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Bis(2-chloroethoxy)methane	ND		3300	220	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Bis(2-chloroethyl)ether	ND		670	90	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Bis(2-ethylhexyl) phthalate	ND		6700	540	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
4-Bromophenyl phenyl ether	ND		3300	290	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Butyl benzyl phthalate	ND		3300	460	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Caprolactam	ND		17000	2500	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Carbazole	**310**	**J**	670	62	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
4-Chloroaniline	ND		3300	270	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
4-Chloro-3-methylphenol	ND		3300	310	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2-Chloronaphthalene	ND		670	70	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2-Chlorophenol	ND		3300	270	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
4-Chlorophenyl phenyl ether	ND		3300	370	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Chrysene	**7300**		670	80	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Dibenz(a,h)anthracene	**1300**		670	74	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Dibenzofuran	ND		3300	330	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
3,3'-Dichlorobenzidine	ND		3300	350	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2,4-Dichlorophenol	ND		670	67	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Diethyl phthalate	ND		3300	370	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2,4-Dimethylphenol	ND		3300	520	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Dimethyl phthalate	ND		3300	360	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Di-n-butyl phthalate	ND		3300	420	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
4,6-Dinitro-2-methylphenol	ND		17000	1300	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2,4-Dinitrophenol	ND		17000	4000	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2,4-Dinitrotoluene	ND		3300	270	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2,6-Dinitrotoluene	ND		3300	340	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Di-n-octyl phthalate	ND		3300	350	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
1,4-Dioxane	ND		6700	380	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Fluoranthene	**10000**		670	71	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Fluorene	**520**	**J**	670	88	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Hexachlorobenzene	ND		670	71	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Hexachlorobutadiene	ND		670	75	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Hexachlorocyclopentadiene	ND		3300	360	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Hexachloroethane	ND		3300	240	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Indeno[1,2,3-cd]pyrene	**4100**		670	69	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Isophorone	ND		3300	250	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2-Methylnaphthalene	**340**	**J**	670	60	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2-Methylphenol	ND		3300	230	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10

Client Sample ID: STI-B43-SS

Lab Sample ID: 180-58515-9
Date Collected: 09/07/16 11:50
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		3300	330	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Naphthalene	**360**	**J**	670	58	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2-Nitroaniline	ND		17000	1500	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
3-Nitroaniline	ND		17000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
4-Nitroaniline	ND		17000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Nitrobenzene	ND		6700	280	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2-Nitrophenol	ND		3300	370	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
4-Nitrophenol	ND		17000	1200	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
N-Nitrosodi-n-propylamine	ND		670	78	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
N-Nitrosodiphenylamine	ND		3300	310	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2,2'-oxybis[1-chloropropane]	ND		670	72	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Pentachlorophenol	ND		3300	300	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Phenanthrene	**7000**		670	110	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Phenol	ND		670	79	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
Pyrene	**13000**		670	68	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
1,2,4,5-Tetrachlorobenzene	ND		3300	250	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2,3,4,6-Tetrachlorophenol	ND		3300	210	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2,4,5-Trichlorophenol	ND		3300	360	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10
2,4,6-Trichlorophenol	ND		3300	500	ug/Kg	☼	09/15/16 03:15	09/15/16 17:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 100*	*09/15/16 03:15*	*09/15/16 17:26*	*10*
2-Fluorophenol (Surr)	*71*		*24 - 109*	*09/15/16 03:15*	*09/15/16 17:26*	*10*
Nitrobenzene-d5 (Surr)	*77*		*31 - 105*	*09/15/16 03:15*	*09/15/16 17:26*	*10*
Phenol-d5 (Surr)	*67*		*24 - 106*	*09/15/16 03:15*	*09/15/16 17:26*	*10*
Terphenyl-d14 (Surr)	*78*		*34 - 104*	*09/15/16 03:15*	*09/15/16 17:26*	*10*
2,4,6-Tribromophenol (Surr)	*11*	*X*	*21 - 114*	*09/15/16 03:15*	*09/15/16 17:26*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**0.9**		0.1	0.1	%			09/16/16 22:21	1
Percent Solids	**99.1**		0.1	0.1	%			09/16/16 22:21	1

Client Sample ID: STI-B43-SUB-0.17-2

Lab Sample ID: 180-58515-10
Date Collected: 09/07/16 12:25
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**37**	**J**	69	6.6	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Acenaphthylene	**720**		69	7.9	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Acetophenone	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Anthracene	**350**		69	6.7	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Atrazine	ND		340	34	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Benzaldehyde	ND		340	52	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Benzo[a]anthracene	**1000**		69	8.6	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Benzo[a]pyrene	**1200**		69	6.9	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Benzo[b]fluoranthene	**1500**		69	11	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Benzo[g,h,i]perylene	**960**		69	6.9	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Benzo[k]fluoranthene	**560**		69	14	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1

Client Sample ID: STI-B43-SUB-0.17-2
Date Collected: 09/07/16 12:25
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-10
Matrix: Solid
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		340	31	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Bis(2-chloroethoxy)methane	ND		340	23	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Bis(2-chloroethyl)ether	ND		69	9.2	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Bis(2-ethylhexyl) phthalate	ND		690	56	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
4-Bromophenyl phenyl ether	ND		340	30	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Butyl benzyl phthalate	ND		340	47	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Caprolactam	ND		1800	260	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Carbazole	**35**	**J**	69	6.4	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
4-Chloroaniline	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
4-Chloro-3-methylphenol	ND		340	32	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2-Chloronaphthalene	ND		69	7.2	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2-Chlorophenol	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
4-Chlorophenyl phenyl ether	ND		340	38	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Chrysene	**1100**		69	8.2	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Dibenz(a,h)anthracene	**250**		69	7.7	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Dibenzofuran	ND		340	34	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
3,3'-Dichlorobenzidine	ND		340	36	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2,4-Dichlorophenol	ND		69	6.9	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Diethyl phthalate	ND		340	38	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2,4-Dimethylphenol	ND		340	54	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Dimethyl phthalate	ND		340	38	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Di-n-butyl phthalate	ND		340	43	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
4,6-Dinitro-2-methylphenol	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2,4-Dinitrophenol	ND		1800	410	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2,4-Dinitrotoluene	ND		340	28	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2,6-Dinitrotoluene	ND		340	36	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Di-n-octyl phthalate	ND		340	36	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
1,4-Dioxane	ND		690	40	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Fluoranthene	**1200**		69	7.4	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Fluorene	**65**	**J**	69	9.1	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Hexachlorobenzene	ND		69	7.3	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Hexachlorobutadiene	ND		69	7.7	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Hexachlorocyclopentadiene	ND		340	37	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Hexachloroethane	ND		340	25	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Indeno[1,2,3-cd]pyrene	**770**		69	7.1	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Isophorone	ND		340	26	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2-Methylnaphthalene	**67**	**J**	69	6.2	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2-Methylphenol	ND		340	24	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Methylphenol, 3 & 4	ND		340	34	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Naphthalene	**100**		69	5.9	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2-Nitroaniline	ND		1800	150	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
3-Nitroaniline	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
4-Nitroaniline	ND		1800	140	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Nitrobenzene	ND		690	29	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2-Nitrophenol	ND		340	38	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
4-Nitrophenol	ND		1800	130	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
N-Nitrosodi-n-propylamine	ND		69	8.1	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
N-Nitrosodiphenylamine	ND		340	32	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2,2'-oxybis[1-chloropropane]	ND		69	7.4	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1

Client Sample ID: STI-B43-SUB-0.17-2

Lab Sample ID: 180-58515-10
Date Collected: 09/07/16 12:25
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		340	31	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Phenanthrene	**370**		69	11	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Phenol	ND		69	8.1	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
Pyrene	**1600**		69	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
1,2,4,5-Tetrachlorobenzene	ND		340	26	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2,3,4,6-Tetrachlorophenol	ND		340	22	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2,4,5-Trichlorophenol	ND		340	37	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1
2,4,6-Trichlorophenol	ND		340	52	ug/Kg	☼	09/15/16 03:15	09/15/16 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 100*	*09/15/16 03:15*	*09/15/16 17:53*	*1*
2-Fluorophenol (Surr)	*58*		*24 - 109*	*09/15/16 03:15*	*09/15/16 17:53*	*1*
Nitrobenzene-d5 (Surr)	*65*		*31 - 105*	*09/15/16 03:15*	*09/15/16 17:53*	*1*
Phenol-d5 (Surr)	*55*		*24 - 106*	*09/15/16 03:15*	*09/15/16 17:53*	*1*
Terphenyl-d14 (Surr)	*64*		*34 - 104*	*09/15/16 03:15*	*09/15/16 17:53*	*1*
2,4,6-Tribromophenol (Surr)	*30*		*21 - 114*	*09/15/16 03:15*	*09/15/16 17:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.5**		0.1	0.1	%			09/17/16 01:09	1
Percent Solids	**95.5**		0.1	0.1	%			09/17/16 01:09	1

Client Sample ID: STI-B41-SS

Lab Sample ID: 180-58515-11
Date Collected: 09/07/16 13:15
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**28000**		3600	350	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Acenaphthylene	**1300**	**J**	3600	410	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Acetophenone	ND		18000	1500	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Anthracene	**47000**		3600	350	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Atrazine	ND		18000	1800	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Benzaldehyde	ND		18000	2700	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Benzo[a]anthracene	**82000**		3600	450	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Benzo[a]pyrene	**63000**		3600	360	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Benzo[b]fluoranthene	**79000**		3600	570	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Benzo[g,h,i]perylene	**38000**		3600	360	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Benzo[k]fluoranthene	**36000**		3600	730	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
1,1'-Biphenyl	**2400**	**J**	18000	1600	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Bis(2-chloroethoxy)methane	ND		18000	1200	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Bis(2-chloroethyl)ether	ND		3600	480	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Bis(2-ethylhexyl) phthalate	ND		36000	2900	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
4-Bromophenyl phenyl ether	ND		18000	1600	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Butyl benzyl phthalate	ND		18000	2500	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Caprolactam	ND		92000	14000	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Carbazole	**21000**		3600	330	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
4-Chloroaniline	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
4-Chloro-3-methylphenol	ND		18000	1700	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2-Chloronaphthalene	ND		3600	380	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50

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

TestAmerica Job ID: 180-58515-1

Client Sample ID: STI-B41-SS
Date Collected: 09/07/16 13:15
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-11
Matrix: Solid
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		18000	1500	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
4-Chlorophenyl phenyl ether	ND		18000	2000	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Chrysene	**67000**		3600	430	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Dibenz(a,h)anthracene	**12000**		3600	400	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Dibenzofuran	**17000**	**J**	18000	1800	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
3,3'-Dichlorobenzidine	ND		18000	1900	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2,4-Dichlorophenol	ND		3600	360	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Diethyl phthalate	ND		18000	2000	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2,4-Dimethylphenol	ND		18000	2800	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Dimethyl phthalate	ND		18000	2000	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Di-n-butyl phthalate	ND		18000	2300	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
4,6-Dinitro-2-methylphenol	ND		92000	7200	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2,4-Dinitrophenol	ND		92000	21000	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2,4-Dinitrotoluene	ND		18000	1500	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2,6-Dinitrotoluene	ND		18000	1900	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Di-n-octyl phthalate	ND		18000	1900	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
1,4-Dioxane	ND		36000	2100	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Fluoranthene	**160000**		3600	390	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Fluorene	**25000**		3600	480	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Hexachlorobenzene	ND		3600	380	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Hexachlorobutadiene	ND		3600	400	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Hexachlorocyclopentadiene	ND		18000	1900	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Hexachloroethane	ND		18000	1300	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Indeno[1,2,3-cd]pyrene	**36000**		3600	370	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Isophorone	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2-Methylnaphthalene	**8700**		3600	320	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2-Methylphenol	ND		18000	1300	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Methylphenol, 3 & 4	ND		18000	1800	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Naphthalene	**21000**		3600	310	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2-Nitroaniline	ND		92000	8100	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
3-Nitroaniline	ND		92000	7400	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
4-Nitroaniline	ND		92000	7300	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Nitrobenzene	ND		36000	1500	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2-Nitrophenol	ND		18000	2000	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
4-Nitrophenol	ND		92000	6600	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
N-Nitrosodi-n-propylamine	ND		3600	420	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
N-Nitrosodiphenylamine	ND		18000	1700	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2,2'-oxybis[1-chloropropane]	ND		3600	390	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Pentachlorophenol	ND		18000	1600	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Phenanthrene	**170000**		3600	570	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Phenol	ND		3600	430	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
Pyrene	**140000**		3600	360	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
1,2,4,5-Tetrachlorobenzene	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2,3,4,6-Tetrachlorophenol	ND		18000	1200	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2,4,5-Trichlorophenol	ND		18000	1900	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50
2,4,6-Trichlorophenol	ND		18000	2700	ug/Kg	☼	09/15/16 03:15	09/15/16 18:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D X*	*34 - 100*	*09/15/16 03:15*	*09/15/16 18:21*	*50*
2-Fluorophenol (Surr)	*0*	*D X*	*24 - 109*	*09/15/16 03:15*	*09/15/16 18:21*	*50*

Client Sample ID: STI-B41-SS — Lab Sample ID: 180-58515-11

Date Collected: 09/07/16 13:15 — **Matrix: Solid**
Date Received: 09/13/16 09:20 — **Percent Solids: 92.5**

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*0*	*D X*	*31 - 105*	*09/15/16 03:15*	*09/15/16 18:21*	*50*
Phenol-d5 (Surr)	*0*	*D X*	*24 - 106*	*09/15/16 03:15*	*09/15/16 18:21*	*50*
Terphenyl-d14 (Surr)	*0*	*D X*	*34 - 104*	*09/15/16 03:15*	*09/15/16 18:21*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*D X*	*21 - 114*	*09/15/16 03:15*	*09/15/16 18:21*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.1	%			09/17/16 02:05	1
Percent Solids	**92.5**		0.1	0.1	%			09/17/16 02:05	1

Client Sample ID: STI-B41-SUB-0.17-2 — Lab Sample ID: 180-58515-12

Date Collected: 09/07/16 13:40 — **Matrix: Solid**
Date Received: 09/13/16 09:20 — **Percent Solids: 94.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**4500**		350	33	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Acenaphthylene	**230**	**J**	350	40	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Acetophenone	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Anthracene	**7400**		350	34	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Atrazine	ND		1700	170	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Benzaldehyde	ND		1700	260	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Benzo[a]anthracene	**11000**		350	44	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Benzo[a]pyrene	**8500**		350	35	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Benzo[b]fluoranthene	**12000**		350	55	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Benzo[g,h,i]perylene	**4900**		350	35	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Benzo[k]fluoranthene	**3400**		350	70	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
1,1'-Biphenyl	**460**	**J**	1700	160	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Bis(2-chloroethoxy)methane	ND		1700	110	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Bis(2-chloroethyl)ether	ND		350	47	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Bis(2-ethylhexyl) phthalate	ND		3500	280	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
4-Bromophenyl phenyl ether	ND		1700	150	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Butyl benzyl phthalate	ND		1700	240	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Caprolactam	ND		8900	1300	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Carbazole	**3300**		350	32	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
4-Chloroaniline	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
4-Chloro-3-methylphenol	ND		1700	160	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2-Chloronaphthalene	ND		350	36	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2-Chlorophenol	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
4-Chlorophenyl phenyl ether	ND		1700	190	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Chrysene	**8800**		350	41	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Dibenz(a,h)anthracene	**1700**		350	39	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Dibenzofuran	**3000**		1700	170	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
3,3'-Dichlorobenzidine	ND		1700	180	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2,4-Dichlorophenol	ND		350	35	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Diethyl phthalate	ND		1700	190	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2,4-Dimethylphenol	ND		1700	270	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Dimethyl phthalate	ND		1700	190	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Di-n-butyl phthalate	ND		1700	220	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5

Client Sample ID: STI-B41-SUB-0.17-2
Date Collected: 09/07/16 13:40
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-12
Matrix: Solid
Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		8900	700	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2,4-Dinitrophenol	ND		8900	2100	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2,4-Dinitrotoluene	ND		1700	140	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2,6-Dinitrotoluene	ND		1700	180	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Di-n-octyl phthalate	ND		1700	180	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
1,4-Dioxane	ND		3500	200	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Fluoranthene	**23000**		350	37	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Fluorene	**4100**		350	46	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Hexachlorobenzene	ND		350	37	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Hexachlorobutadiene	ND		350	39	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Hexachlorocyclopentadiene	ND		1700	190	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Hexachloroethane	ND		1700	130	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Indeno[1,2,3-cd]pyrene	**4800**		350	36	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Isophorone	ND		1700	130	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2-Methylnaphthalene	**1800**		350	31	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2-Methylphenol	ND		1700	120	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Methylphenol, 3 & 4	ND		1700	170	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Naphthalene	**4400**		350	30	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2-Nitroaniline	ND		8900	780	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
3-Nitroaniline	ND		8900	720	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
4-Nitroaniline	ND		8900	700	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Nitrobenzene	ND		3500	140	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2-Nitrophenol	ND		1700	190	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
4-Nitrophenol	ND		8900	630	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
N-Nitrosodi-n-propylamine	ND		350	41	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
N-Nitrosodiphenylamine	ND		1700	160	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2,2'-oxybis[1-chloropropane]	ND		350	38	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Pentachlorophenol	ND		1700	160	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Phenanthrene	**26000**		350	55	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Phenol	ND		350	41	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
Pyrene	**18000**		350	35	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
1,2,4,5-Tetrachlorobenzene	ND		1700	130	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2,3,4,6-Tetrachlorophenol	ND		1700	110	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2,4,5-Trichlorophenol	ND		1700	190	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5
2,4,6-Trichlorophenol	ND		1700	260	ug/Kg	☼	09/15/16 03:15	09/15/16 18:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*34 - 100*	*09/15/16 03:15*	*09/15/16 18:48*	*5*
2-Fluorophenol (Surr)	*65*		*24 - 109*	*09/15/16 03:15*	*09/15/16 18:48*	*5*
Nitrobenzene-d5 (Surr)	*74*		*31 - 105*	*09/15/16 03:15*	*09/15/16 18:48*	*5*
Phenol-d5 (Surr)	*63*		*24 - 106*	*09/15/16 03:15*	*09/15/16 18:48*	*5*
Terphenyl-d14 (Surr)	*70*		*34 - 104*	*09/15/16 03:15*	*09/15/16 18:48*	*5*
2,4,6-Tribromophenol (Surr)	*11*	*X*	*21 - 114*	*09/15/16 03:15*	*09/15/16 18:48*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.4**		0.1	0.1	%			09/17/16 03:00	1
Percent Solids	**94.6**		0.1	0.1	%			09/17/16 03:00	1

Client Sample ID: STI-B39-SS
Date Collected: 09/07/16 13:20
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-13
Matrix: Solid
Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**7700**		690	66	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Acenaphthylene	**2500**		690	79	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Acetophenone	ND		3400	280	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Anthracene	**16000**		690	67	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Atrazine	ND		3400	330	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Benzaldehyde	ND		3400	520	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Benzo[a]anthracene	**28000**		690	86	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Benzo[a]pyrene	**22000**		690	69	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Benzo[b]fluoranthene	**29000**		690	110	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Benzo[g,h,i]perylene	**12000**		690	68	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Benzo[k]fluoranthene	**9900**		690	140	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
1,1'-Biphenyl	**740**	**J**	3400	310	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Bis(2-chloroethoxy)methane	ND		3400	230	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Bis(2-chloroethyl)ether	ND		690	92	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Bis(2-ethylhexyl) phthalate	ND		6900	560	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
4-Bromophenyl phenyl ether	ND		3400	300	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Butyl benzyl phthalate	ND		3400	470	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Caprolactam	ND		18000	2600	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Carbazole	**5900**		690	63	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
4-Chloroaniline	ND		3400	280	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
4-Chloro-3-methylphenol	ND		3400	320	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2-Chloronaphthalene	ND		690	72	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2-Chlorophenol	ND		3400	280	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
4-Chlorophenyl phenyl ether	ND		3400	380	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Chrysene	**23000**		690	82	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Dibenz(a,h)anthracene	**4400**		690	76	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Dibenzofuran	**5100**		3400	340	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
3,3'-Dichlorobenzidine	ND		3400	360	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2,4-Dichlorophenol	ND		690	69	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Diethyl phthalate	ND		3400	380	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2,4-Dimethylphenol	ND		3400	540	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Dimethyl phthalate	ND		3400	370	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Di-n-butyl phthalate	ND		3400	430	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
4,6-Dinitro-2-methylphenol	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2,4-Dinitrophenol	ND		18000	4100	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2,4-Dinitrotoluene	ND		3400	280	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2,6-Dinitrotoluene	ND		3400	350	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Di-n-octyl phthalate	ND		3400	360	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
1,4-Dioxane	ND		6900	390	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Fluoranthene	**54000**		690	74	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Fluorene	**8300**		690	91	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Hexachlorobenzene	ND		690	73	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Hexachlorobutadiene	ND		690	77	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Hexachlorocyclopentadiene	ND		3400	370	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Hexachloroethane	ND		3400	250	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Indeno[1,2,3-cd]pyrene	**12000**		690	71	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Isophorone	ND		3400	260	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2-Methylnaphthalene	**3000**		690	62	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2-Methylphenol	ND		3400	240	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10

Client Sample ID: STI-B39-SS — Lab Sample ID: 180-58515-13

Date Collected: 09/07/16 13:20 — Matrix: Solid
Date Received: 09/13/16 09:20 — Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		3400	340	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Naphthalene	**6300**		690	59	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2-Nitroaniline	ND		18000	1500	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
3-Nitroaniline	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
4-Nitroaniline	ND		18000	1400	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Nitrobenzene	ND		6900	290	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2-Nitrophenol	ND		3400	380	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
4-Nitrophenol	ND		18000	1300	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
N-Nitrosodi-n-propylamine	ND		690	81	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
N-Nitrosodiphenylamine	ND		3400	320	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2,2'-oxybis[1-chloropropane]	ND		690	74	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Pentachlorophenol	ND		3400	310	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Phenanthrene	**59000**		690	110	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Phenol	ND		690	81	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
Pyrene	**49000**		690	70	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
1,2,4,5-Tetrachlorobenzene	ND		3400	260	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2,3,4,6-Tetrachlorophenol	ND		3400	220	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2,4,5-Trichlorophenol	ND		3400	370	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10
2,4,6-Trichlorophenol	ND		3400	510	ug/Kg	☼	09/15/16 03:15	09/15/16 19:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 100*	*09/15/16 03:15*	*09/15/16 19:15*	*10*
2-Fluorophenol (Surr)	*70*		*24 - 109*	*09/15/16 03:15*	*09/15/16 19:15*	*10*
Nitrobenzene-d5 (Surr)	*76*		*31 - 105*	*09/15/16 03:15*	*09/15/16 19:15*	*10*
Phenol-d5 (Surr)	*66*		*24 - 106*	*09/15/16 03:15*	*09/15/16 19:15*	*10*
Terphenyl-d14 (Surr)	*71*		*34 - 104*	*09/15/16 03:15*	*09/15/16 19:15*	*10*
2,4,6-Tribromophenol (Surr)	*5*	*X*	*21 - 114*	*09/15/16 03:15*	*09/15/16 19:15*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.6**		0.1	0.1	%			09/17/16 03:56	1
Percent Solids	**96.4**		0.1	0.1	%			09/17/16 03:56	1

Client Sample ID: STI-B39-SUB-0.17-2 — Lab Sample ID: 180-58515-14

Date Collected: 09/07/16 13:45 — Matrix: Solid
Date Received: 09/13/16 09:20 — Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**17**	**J**	74	7.0	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Acenaphthylene	**19**	**J**	74	8.4	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Acetophenone	ND		360	30	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Anthracene	**47**	**J**	74	7.2	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Atrazine	ND		360	36	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Benzaldehyde	ND		360	55	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Benzo[a]anthracene	**98**		74	9.2	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Benzo[a]pyrene	**73**	**J**	74	7.3	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Benzo[b]fluoranthene	**100**		74	12	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Benzo[g,h,i]perylene	**59**	**J**	74	7.3	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Benzo[k]fluoranthene	**46**	**J**	74	15	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1

Client Sample ID: STI-B39-SUB-0.17-2
Date Collected: 09/07/16 13:45
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-14
Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		360	33	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Bis(2-chloroethoxy)methane	ND		360	24	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Bis(2-chloroethyl)ether	ND		74	9.8	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Bis(2-ethylhexyl) phthalate	ND		740	59	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
4-Bromophenyl phenyl ether	ND		360	32	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Butyl benzyl phthalate	ND		360	50	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Caprolactam	ND		1900	280	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Carbazole	ND		74	6.8	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
4-Chloroaniline	ND		360	29	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
4-Chloro-3-methylphenol	ND		360	34	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2-Chloronaphthalene	ND		74	7.6	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2-Chlorophenol	ND		360	30	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
4-Chlorophenyl phenyl ether	ND		360	41	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Chrysene	**120**		74	8.7	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Dibenz(a,h)anthracene	**20**	**J**	74	8.2	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Dibenzofuran	**41**	**J**	360	36	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
3,3'-Dichlorobenzidine	ND		360	39	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2,4-Dichlorophenol	ND		74	7.4	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Diethyl phthalate	ND		360	40	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2,4-Dimethylphenol	ND		360	57	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Dimethyl phthalate	ND		360	40	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Di-n-butyl phthalate	ND		360	46	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
4,6-Dinitro-2-methylphenol	ND		1900	150	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2,4-Dinitrophenol	ND		1900	440	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2,4-Dinitrotoluene	ND		360	30	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2,6-Dinitrotoluene	ND		360	38	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Di-n-octyl phthalate	ND		360	39	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
1,4-Dioxane	ND		740	42	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Fluoranthene	**150**		74	7.8	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Fluorene	**18**	**J**	74	9.7	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Hexachlorobenzene	ND		74	7.8	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Hexachlorobutadiene	ND		74	8.2	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Hexachlorocyclopentadiene	ND		360	40	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Hexachloroethane	ND		360	26	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Indeno[1,2,3-cd]pyrene	**52**	**J**	74	7.6	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Isophorone	ND		360	28	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2-Methylnaphthalene	**94**		74	6.6	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2-Methylphenol	ND		360	26	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Methylphenol, 3 & 4	ND		360	36	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Naphthalene	**92**		74	6.3	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2-Nitroaniline	ND		1900	160	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
3-Nitroaniline	ND		1900	150	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
4-Nitroaniline	ND		1900	150	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Nitrobenzene	ND		740	31	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2-Nitrophenol	ND		360	40	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
4-Nitrophenol	ND		1900	130	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
N-Nitrosodi-n-propylamine	ND		74	8.6	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
N-Nitrosodiphenylamine	ND		360	34	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2,2'-oxybis[1-chloropropane]	ND		74	7.9	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1

Client Sample ID: STI-B39-SUB-0.17-2

Lab Sample ID: 180-58515-14
Date Collected: 09/07/16 13:45
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		360	33	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Phenanthrene	**190**		74	12	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Phenol	ND		74	8.7	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
Pyrene	**170**		74	7.4	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
1,2,4,5-Tetrachlorobenzene	ND		360	28	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2,3,4,6-Tetrachlorophenol	ND		360	24	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2,4,5-Trichlorophenol	ND		360	39	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1
2,4,6-Trichlorophenol	ND		360	55	ug/Kg	☼	09/15/16 03:15	09/15/16 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*34 - 100*	*09/15/16 03:15*	*09/15/16 19:43*	*1*
2-Fluorophenol (Surr)	*57*		*24 - 109*	*09/15/16 03:15*	*09/15/16 19:43*	*1*
Nitrobenzene-d5 (Surr)	*64*		*31 - 105*	*09/15/16 03:15*	*09/15/16 19:43*	*1*
Phenol-d5 (Surr)	*53*		*24 - 106*	*09/15/16 03:15*	*09/15/16 19:43*	*1*
Terphenyl-d14 (Surr)	*69*		*34 - 104*	*09/15/16 03:15*	*09/15/16 19:43*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*21 - 114*	*09/15/16 03:15*	*09/15/16 19:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			09/17/16 04:52	1
Percent Solids	**91.0**		0.1	0.1	%			09/17/16 04:52	1

Client Sample ID: STI-B38-SS

Lab Sample ID: 180-58515-15
Date Collected: 09/07/16 13:25
Matrix: Solid
Date Received: 09/13/16 09:20
Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**47000**		700	67	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Acenaphthylene	**1700**		700	80	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Acetophenone	ND		3500	290	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Anthracene	**82000**		700	68	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Atrazine	ND		3500	340	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Benzaldehyde	ND		3500	520	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Benzo[a]anthracene	**110000**		700	88	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Benzo[a]pyrene	**80000**		700	70	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Benzo[b]fluoranthene	**83000**		700	110	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Benzo[g,h,i]perylene	**65000**		700	70	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Benzo[k]fluoranthene	**37000**		700	140	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
1,1'-Biphenyl	**5700**		3500	310	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Bis(2-chloroethoxy)methane	ND		3500	230	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Bis(2-chloroethyl)ether	ND		700	94	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Bis(2-ethylhexyl) phthalate	ND		7000	560	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
4-Bromophenyl phenyl ether	ND		3500	300	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Butyl benzyl phthalate	ND		3500	480	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Caprolactam	ND		18000	2600	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Carbazole	**37000**		700	64	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
4-Chloroaniline	ND		3500	280	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
4-Chloro-3-methylphenol	ND		3500	320	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2-Chloronaphthalene	ND		700	73	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10

Client Sample ID: STI-B38-SS
Date Collected: 09/07/16 13:25
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-15
Matrix: Solid
Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		3500	290	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
4-Chlorophenyl phenyl ether	ND		3500	390	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Chrysene	**97000**		700	83	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Dibenz(a,h)anthracene	**18000**		700	78	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Dibenzofuran	**36000**		3500	340	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
3,3'-Dichlorobenzidine	ND		3500	370	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2,4-Dichlorophenol	ND		700	70	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Diethyl phthalate	ND		3500	380	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2,4-Dimethylphenol	**980**	**J**	3500	550	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Dimethyl phthalate	ND		3500	380	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Di-n-butyl phthalate	ND		3500	440	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
4,6-Dinitro-2-methylphenol	ND		18000	1400	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2,4-Dinitrophenol	ND		18000	4200	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2,4-Dinitrotoluene	ND		3500	280	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2,6-Dinitrotoluene	ND		3500	360	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Di-n-octyl phthalate	ND		3500	370	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
1,4-Dioxane	ND		7000	400	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Fluoranthene	**220000**	**E**	700	75	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Fluorene	**46000**		700	92	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Hexachlorobenzene	ND		700	74	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Hexachlorobutadiene	ND		700	78	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Hexachlorocyclopentadiene	ND		3500	380	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Hexachloroethane	ND		3500	250	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Indeno[1,2,3-cd]pyrene	**60000**		700	72	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Isophorone	ND		3500	260	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2-Methylnaphthalene	**23000**		700	63	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2-Methylphenol	**660**	**J**	3500	240	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Methylphenol, 3 & 4	**2100**	**J**	3500	340	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Naphthalene	**70000**		700	60	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2-Nitroaniline	ND		18000	1600	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
3-Nitroaniline	ND		18000	1400	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
4-Nitroaniline	ND		18000	1400	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Nitrobenzene	ND		7000	290	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2-Nitrophenol	ND		3500	390	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
4-Nitrophenol	ND		18000	1300	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
N-Nitrosodi-n-propylamine	ND		700	82	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
N-Nitrosodiphenylamine	ND		3500	320	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2,2'-oxybis[1-chloropropane]	ND	*	700	75	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Pentachlorophenol	ND		3500	310	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Phenanthrene	**220000**	**E**	700	110	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Phenol	**1000**		700	83	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
Pyrene	**150000**	**E**	700	71	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
1,2,4,5-Tetrachlorobenzene	ND		3500	260	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2,3,4,6-Tetrachlorophenol	ND		3500	220	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2,4,5-Trichlorophenol	ND		3500	370	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10
2,4,6-Trichlorophenol	ND		3500	520	ug/Kg	☼	09/19/16 03:00	09/20/16 04:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*34 - 100*	*09/19/16 03:00*	*09/20/16 04:25*	*10*
2-Fluorophenol (Surr)	*60*		*24 - 109*	*09/19/16 03:00*	*09/20/16 04:25*	*10*

Client Sample ID: STI-B38-SS
Date Collected: 09/07/16 13:25
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-15
Matrix: Solid
Percent Solids: 94.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*68*		*31 - 105*	*09/19/16 03:00*	*09/20/16 04:25*	*10*
Phenol-d5 (Surr)	*57*		*24 - 106*	*09/19/16 03:00*	*09/20/16 04:25*	*10*
Terphenyl-d14 (Surr)	*55*		*34 - 104*	*09/19/16 03:00*	*09/20/16 04:25*	*10*
2,4,6-Tribromophenol (Surr)	*67*		*21 - 114*	*09/19/16 03:00*	*09/20/16 04:25*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**54000**		3500	340	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Acenaphthylene	**2000**	**J**	3500	400	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Acetophenone	ND		17000	1400	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Anthracene	**90000**		3500	340	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Atrazine	ND		17000	1700	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Benzaldehyde	ND		17000	2600	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Benzo[a]anthracene	**110000**		3500	440	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Benzo[a]pyrene	**91000**		3500	350	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Benzo[b]fluoranthene	**99000**		3500	550	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Benzo[g,h,i]perylene	**67000**		3500	350	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Benzo[k]fluoranthene	**46000**		3500	710	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
1,1'-Biphenyl	**6500**	**J**	17000	1600	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Bis(2-chloroethoxy)methane	ND		17000	1100	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Bis(2-chloroethyl)ether	ND		3500	470	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Bis(2-ethylhexyl) phthalate	ND		35000	2800	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
4-Bromophenyl phenyl ether	ND		17000	1500	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Butyl benzyl phthalate	ND		17000	2400	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Caprolactam	ND		89000	13000	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Carbazole	**41000**		3500	320	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
4-Chloroaniline	ND		17000	1400	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
4-Chloro-3-methylphenol	ND		17000	1600	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2-Chloronaphthalene	ND		3500	360	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2-Chlorophenol	ND		17000	1400	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
4-Chlorophenyl phenyl ether	ND		17000	1900	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Chrysene	**100000**		3500	420	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Dibenz(a,h)anthracene	**17000**		3500	390	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Dibenzofuran	**42000**		17000	1700	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
3,3'-Dichlorobenzidine	ND		17000	1800	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2,4-Dichlorophenol	ND		3500	350	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Diethyl phthalate	ND		17000	1900	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2,4-Dimethylphenol	ND		17000	2700	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Dimethyl phthalate	ND		17000	1900	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Di-n-butyl phthalate	ND		17000	2200	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
4,6-Dinitro-2-methylphenol	ND		89000	7000	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2,4-Dinitrophenol	ND		89000	21000	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2,4-Dinitrotoluene	ND		17000	1400	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2,6-Dinitrotoluene	ND		17000	1800	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Di-n-octyl phthalate	ND		17000	1800	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
1,4-Dioxane	ND		35000	2000	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Fluoranthene	**280000**		3500	370	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Fluorene	**56000**		3500	460	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Hexachlorobenzene	ND		3500	370	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50

Client Sample ID: STI-B38-SS
Date Collected: 09/07/16 13:25
Date Received: 09/13/16 09:20

Lab Sample ID: 180-58515-15
Matrix: Solid
Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		3500	390	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Hexachlorocyclopentadiene	ND		17000	1900	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Hexachloroethane	ND		17000	1300	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Indeno[1,2,3-cd]pyrene	**61000**		3500	360	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Isophorone	ND		17000	1300	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2-Methylnaphthalene	**27000**		3500	310	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2-Methylphenol	**1300**	**J**	17000	1200	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Methylphenol, 3 & 4	**3200**	**J**	17000	1700	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Naphthalene	**83000**		3500	300	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2-Nitroaniline	ND		89000	7800	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
3-Nitroaniline	ND		89000	7200	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
4-Nitroaniline	ND		89000	7100	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Nitrobenzene	ND		35000	1500	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2-Nitrophenol	ND		17000	1900	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
4-Nitrophenol	ND		89000	6400	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
N-Nitrosodi-n-propylamine	ND		3500	410	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
N-Nitrosodiphenylamine	ND		17000	1600	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2,2'-oxybis[1-chloropropane]	ND	*	3500	380	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Pentachlorophenol	ND		17000	1600	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Phenanthrene	**320000**		3500	560	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Phenol	**3700**		3500	410	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
Pyrene	**170000**		3500	350	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
1,2,4,5-Tetrachlorobenzene	ND		17000	1300	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2,3,4,6-Tetrachlorophenol	ND		17000	1100	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2,4,5-Trichlorophenol	ND		17000	1900	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50
2,4,6-Trichlorophenol	ND		17000	2600	ug/Kg	☼	09/19/16 03:00	09/22/16 02:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X D*	*34 - 100*	*09/19/16 03:00*	*09/22/16 02:27*	*50*
2-Fluorophenol (Surr)	*0*	*X D*	*24 - 109*	*09/19/16 03:00*	*09/22/16 02:27*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*31 - 105*	*09/19/16 03:00*	*09/22/16 02:27*	*50*
Phenol-d5 (Surr)	*0*	*X D*	*24 - 106*	*09/19/16 03:00*	*09/22/16 02:27*	*50*
Terphenyl-d14 (Surr)	*0*	*X D*	*34 - 104*	*09/19/16 03:00*	*09/22/16 02:27*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*21 - 114*	*09/19/16 03:00*	*09/22/16 02:27*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.8**		0.1	0.1	%			09/17/16 05:48	1
Percent Solids	**94.2**		0.1	0.1	%			09/17/16 05:48	1

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

Lab Sample ID: MB 180-187975/1-A
Matrix: Solid
Analysis Batch: 188021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		67	6.4	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Acenaphthylene	ND		67	7.6	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Acetophenone	ND		330	27	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Anthracene	ND		67	6.5	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Atrazine	ND		330	32	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Benzaldehyde	ND		330	50	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Benzo[a]anthracene	ND		67	8.4	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Benzo[a]pyrene	ND		67	6.7	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Benzo[b]fluoranthene	ND		67	10	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Benzo[g,h,i]perylene	ND		67	6.6	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Benzo[k]fluoranthene	ND		67	13	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
1,1'-Biphenyl	ND		330	30	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Bis(2-chloroethoxy)methane	ND		330	22	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Bis(2-chloroethyl)ether	ND		67	9.0	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Bis(2-ethylhexyl) phthalate	ND		670	54	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
4-Bromophenyl phenyl ether	ND		330	29	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Butyl benzyl phthalate	ND		330	46	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Caprolactam	ND		1700	250	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Carbazole	ND		67	6.1	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
4-Chloroaniline	ND		330	27	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
4-Chloro-3-methylphenol	ND		330	31	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2-Chloronaphthalene	ND		67	7.0	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2-Chlorophenol	ND		330	27	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
4-Chlorophenyl phenyl ether	ND		330	37	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Chrysene	ND		67	7.9	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Dibenz(a,h)anthracene	ND		67	7.4	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Dibenzofuran	ND		330	33	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
3,3'-Dichlorobenzidine	ND		330	35	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2,4-Dichlorophenol	ND		67	6.7	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Diethyl phthalate	ND		330	36	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2,4-Dimethylphenol	ND		330	52	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Dimethyl phthalate	ND		330	36	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Di-n-butyl phthalate	ND		330	42	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
4,6-Dinitro-2-methylphenol	ND		1700	130	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2,4-Dinitrophenol	ND		1700	400	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2,4-Dinitrotoluene	ND		330	27	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2,6-Dinitrotoluene	ND		330	34	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Di-n-octyl phthalate	ND		330	35	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
1,4-Dioxane	ND		670	38	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Fluoranthene	ND		67	7.1	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Fluorene	ND		67	8.8	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Hexachlorobenzene	ND		67	7.1	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Hexachlorobutadiene	ND		67	7.5	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Hexachlorocyclopentadiene	ND		330	36	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Hexachloroethane	ND		330	24	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Indeno[1,2,3-cd]pyrene	ND		67	6.9	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Isophorone	ND		330	25	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2-Methylnaphthalene	ND		67	6.0	ug/Kg		09/15/16 03:15	09/15/16 11:57	1

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

Lab Sample ID: MB 180-187975/1-A
Matrix: Solid
Analysis Batch: 188021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		330	23	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Methylphenol, 3 & 4	ND		330	33	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Naphthalene	ND		67	5.7	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2-Nitroaniline	ND		1700	150	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
3-Nitroaniline	ND		1700	140	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
4-Nitroaniline	ND		1700	140	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Nitrobenzene	ND		670	28	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2-Nitrophenol	ND		330	37	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
4-Nitrophenol	ND		1700	120	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
N-Nitrosodi-n-propylamine	ND		67	7.8	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
N-Nitrosodiphenylamine	ND		330	31	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2,2'-oxybis[1-chloropropane]	ND		67	7.2	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Pentachlorophenol	ND		330	30	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Phenanthrene	ND		67	11	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Phenol	ND		67	7.9	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
Pyrene	ND		67	6.7	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
1,2,4,5-Tetrachlorobenzene	ND		330	25	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2,3,4,6-Tetrachlorophenol	ND		330	21	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2,4,5-Trichlorophenol	ND		330	36	ug/Kg		09/15/16 03:15	09/15/16 11:57	1
2,4,6-Trichlorophenol	ND		330	50	ug/Kg		09/15/16 03:15	09/15/16 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 100*	*09/15/16 03:15*	*09/15/16 11:57*	*1*
2-Fluorophenol (Surr)	*64*		*24 - 109*	*09/15/16 03:15*	*09/15/16 11:57*	*1*
Nitrobenzene-d5 (Surr)	*68*		*31 - 105*	*09/15/16 03:15*	*09/15/16 11:57*	*1*
Phenol-d5 (Surr)	*62*		*24 - 106*	*09/15/16 03:15*	*09/15/16 11:57*	*1*
Terphenyl-d14 (Surr)	*76*		*34 - 104*	*09/15/16 03:15*	*09/15/16 11:57*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*21 - 114*	*09/15/16 03:15*	*09/15/16 11:57*	*1*

Lab Sample ID: LCS 180-187975/2-A
Matrix: Solid
Analysis Batch: 188021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6670	4800		ug/Kg		72	40 - 100
Acenaphthylene	6670	4840		ug/Kg		73	44 - 100
Acetophenone	6670	4060		ug/Kg		61	33 - 100
Anthracene	6670	4590		ug/Kg		69	45 - 100
Atrazine	6670	3800		ug/Kg		57	17 - 123
Benzaldehyde	6670	3210		ug/Kg		48	10 - 107
Benzo[a]anthracene	6670	4680		ug/Kg		70	45 - 100
Benzo[a]pyrene	6670	4600		ug/Kg		69	43 - 102
Benzo[b]fluoranthene	6670	4620		ug/Kg		69	40 - 100
Benzo[g,h,i]perylene	6670	4260		ug/Kg		64	41 - 110
Benzo[k]fluoranthene	6670	4670		ug/Kg		70	41 - 100
1,1'-Biphenyl	6670	4770		ug/Kg		71	41 - 100
Bis(2-chloroethoxy)methane	6670	4420		ug/Kg		66	41 - 100
Bis(2-chloroethyl)ether	6670	4360		ug/Kg		65	39 - 100

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

Lab Sample ID: LCS 180-187975/2-A
Matrix: Solid
Analysis Batch: 188021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	6670	6180		ug/Kg		93	46 - 107
4-Bromophenyl phenyl ether	6670	4920		ug/Kg		74	46 - 101
Butyl benzyl phthalate	6670	5990		ug/Kg		90	45 - 108
Caprolactam	6670	4120		ug/Kg		62	40 - 114
Carbazole	6670	4620		ug/Kg		69	42 - 103
4-Chloroaniline	6670	4220		ug/Kg		63	42 - 100
4-Chloro-3-methylphenol	6670	4640		ug/Kg		70	39 - 109
2-Chloronaphthalene	6670	4830		ug/Kg		72	42 - 100
2-Chlorophenol	6670	4690		ug/Kg		70	35 - 105
4-Chlorophenyl phenyl ether	6670	4430		ug/Kg		66	46 - 100
Chrysene	6670	4400		ug/Kg		66	45 - 100
Dibenz(a,h)anthracene	6670	4650		ug/Kg		70	42 - 110
Dibenzofuran	6670	4590		ug/Kg		69	44 - 100
3,3'-Dichlorobenzidine	6670	4640		ug/Kg		70	39 - 100
2,4-Dichlorophenol	6670	4570		ug/Kg		69	39 - 106
Diethyl phthalate	6670	5040		ug/Kg		76	46 - 102
2,4-Dimethylphenol	6670	4890		ug/Kg		73	36 - 107
Dimethyl phthalate	6670	4870		ug/Kg		73	47 - 102
Di-n-butyl phthalate	6670	5190		ug/Kg		78	46 - 107
4,6-Dinitro-2-methylphenol	13300	9520		ug/Kg		71	43 - 107
2,4-Dinitrophenol	13300	8810		ug/Kg		66	33 - 106
2,4-Dinitrotoluene	6670	4550		ug/Kg		68	46 - 112
2,6-Dinitrotoluene	6670	4750		ug/Kg		71	48 - 104
Di-n-octyl phthalate	6670	5610		ug/Kg		84	41 - 105
1,4-Dioxane	6670	4240		ug/Kg		64	13 - 122
Fluoranthene	6670	4580		ug/Kg		69	43 - 106
Fluorene	6670	4590		ug/Kg		69	42 - 100
Hexachlorobenzene	6670	4980		ug/Kg		75	46 - 100
Hexachlorobutadiene	6670	4580		ug/Kg		69	42 - 102
Hexachlorocyclopentadiene	6670	4580		ug/Kg		69	35 - 110
Hexachloroethane	6670	4930		ug/Kg		74	38 - 100
Indeno[1,2,3-cd]pyrene	6670	4600		ug/Kg		69	41 - 110
Isophorone	6670	4390		ug/Kg		66	40 - 104
2-Methylnaphthalene	6670	4380		ug/Kg		66	42 - 100
2-Methylphenol	6670	4530		ug/Kg		68	34 - 106
Methylphenol, 3 & 4	6670	4420		ug/Kg		66	35 - 106
Naphthalene	6670	4490		ug/Kg		67	40 - 100
2-Nitroaniline	6670	4910		ug/Kg		74	40 - 114
3-Nitroaniline	6670	4690		ug/Kg		70	43 - 109
4-Nitroaniline	6670	4810		ug/Kg		72	37 - 115
Nitrobenzene	6670	4920		ug/Kg		74	38 - 104
2-Nitrophenol	6670	5100		ug/Kg		76	43 - 109
4-Nitrophenol	13300	10900		ug/Kg		82	22 - 140
N-Nitrosodi-n-propylamine	6670	4540		ug/Kg		68	39 - 103
N-Nitrosodiphenylamine	6670	4960		ug/Kg		74	43 - 100
2,2'-oxybis[1-chloropropane]	6670	2500		ug/Kg		38	27 - 104
Pentachlorophenol	13300	7450		ug/Kg		56	26 - 115
Phenanthrene	6670	4660		ug/Kg		70	43 - 100

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

Lab Sample ID: LCS 180-187975/2-A
Matrix: Solid
Analysis Batch: 188021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187975

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenol			6670	4340		ug/Kg		65	30 - 105		
Pyrene			6670	5170		ug/Kg		78	42 - 100		
1,2,4,5-Tetrachlorobenzene			6670	4820		ug/Kg		72	41 - 100		
2,3,4,6-Tetrachlorophenol			6670	4090		ug/Kg		61	41 - 107		
2,4,5-Trichlorophenol			6670	4750		ug/Kg		71	44 - 103		
2,4,6-Trichlorophenol			6670	4920		ug/Kg		74	44 - 107		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*34 - 100*
2-Fluorophenol (Surr)	*74*		*24 - 109*
Nitrobenzene-d5 (Surr)	*75*		*31 - 105*
Phenol-d5 (Surr)	*68*		*24 - 106*
Terphenyl-d14 (Surr)	*77*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*76*		*21 - 114*

Lab Sample ID: 180-58515-1 MS
Matrix: Solid
Analysis Batch: 188021

Client Sample ID: STI-FD-4
Prep Type: Total/NA
Prep Batch: 187975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene	50	J	6760	5000		ug/Kg	☼	73	40 - 100		
Acenaphthylene	28	J	6760	5030		ug/Kg	☼	74	44 - 100		
Acetophenone	ND		6760	4200		ug/Kg	☼	62	33 - 100		
Anthracene	120		6760	5040		ug/Kg	☼	73	45 - 100		
Atrazine	ND		6760	4010		ug/Kg	☼	59	17 - 123		
Benzaldehyde	ND		6760	1830		ug/Kg	☼	27	10 - 107		
Benzo[a]anthracene	230		6760	5100		ug/Kg	☼	72	45 - 100		
Benzo[a]pyrene	160		6760	4740		ug/Kg	☼	68	43 - 102		
Benzo[b]fluoranthene	290		6760	4800		ug/Kg	☼	67	40 - 100		
Benzo[g,h,i]perylene	120		6760	4580		ug/Kg	☼	66	41 - 110		
Benzo[k]fluoranthene	78		6760	4510		ug/Kg	☼	65	41 - 100		
1,1'-Biphenyl	40	J	6760	5010		ug/Kg	☼	73	41 - 100		
Bis(2-chloroethoxy)methane	ND		6760	4550		ug/Kg	☼	67	41 - 100		
Bis(2-chloroethyl)ether	ND		6760	4360		ug/Kg	☼	64	39 - 100		
Bis(2-ethylhexyl) phthalate	ND		6760	6200		ug/Kg	☼	92	46 - 107		
4-Bromophenyl phenyl ether	ND		6760	4980		ug/Kg	☼	74	46 - 101		
Butyl benzyl phthalate	ND		6760	5900		ug/Kg	☼	87	45 - 108		
Caprolactam	ND		6760	3380		ug/Kg	☼	50	40 - 114		
Carbazole	48	J	6760	4810		ug/Kg	☼	70	42 - 103		
4-Chloroaniline	ND		6760	3890		ug/Kg	☼	58	42 - 100		
4-Chloro-3-methylphenol	ND		6760	4460		ug/Kg	☼	66	39 - 109		
2-Chloronaphthalene	ND		6760	4990		ug/Kg	☼	74	42 - 100		
2-Chlorophenol	ND		6760	4440		ug/Kg	☼	66	35 - 105		
4-Chlorophenyl phenyl ether	ND		6760	4590		ug/Kg	☼	68	46 - 100		
Chrysene	270		6760	4850		ug/Kg	☼	68	45 - 100		
Dibenz(a,h)anthracene	47	J	6760	4930		ug/Kg	☼	72	42 - 110		
Dibenzofuran	110	J	6760	4930		ug/Kg	☼	71	44 - 100		
3,3'-Dichlorobenzidine	ND	F1	6760	2420	F1	ug/Kg	☼	36	39 - 100		

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

Lab Sample ID: 180-58515-1 MS
Matrix: Solid
Analysis Batch: 188021

Client Sample ID: STI-FD-4
Prep Type: Total/NA
Prep Batch: 187975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	ND		6760	4420		ug/Kg	☼	65	39 - 106
Diethyl phthalate	ND		6760	5330		ug/Kg	☼	79	46 - 102
2,4-Dimethylphenol	ND		6760	3010		ug/Kg	☼	45	36 - 107
Dimethyl phthalate	ND		6760	5140		ug/Kg	☼	76	47 - 102
Di-n-butyl phthalate	ND		6760	5370		ug/Kg	☼	79	46 - 107
4,6-Dinitro-2-methylphenol	ND		13500	7270		ug/Kg	☼	54	43 - 107
2,4-Dinitrophenol	ND	F1	13500	2170	F1	ug/Kg	☼	16	33 - 106
2,4-Dinitrotoluene	ND		6760	4800		ug/Kg	☼	71	46 - 112
2,6-Dinitrotoluene	ND		6760	4970		ug/Kg	☼	74	48 - 104
Di-n-octyl phthalate	ND		6760	5410		ug/Kg	☼	80	41 - 105
1,4-Dioxane	ND		6760	3910		ug/Kg	☼	58	13 - 122
Fluoranthene	380		6760	5220		ug/Kg	☼	72	43 - 106
Fluorene	47	J	6760	4830		ug/Kg	☼	71	42 - 100
Hexachlorobenzene	ND		6760	4990		ug/Kg	☼	74	46 - 100
Hexachlorobutadiene	ND		6760	4610		ug/Kg	☼	68	42 - 102
Hexachlorocyclopentadiene	ND		6760	4480		ug/Kg	☼	66	35 - 110
Hexachloroethane	ND		6760	4780		ug/Kg	☼	71	38 - 100
Indeno[1,2,3-cd]pyrene	110		6760	4800		ug/Kg	☼	69	41 - 110
Isophorone	ND		6760	4520		ug/Kg	☼	67	40 - 104
2-Methylnaphthalene	200		6760	4630		ug/Kg	☼	66	42 - 100
2-Methylphenol	ND		6760	3860		ug/Kg	☼	57	34 - 106
Methylphenol, 3 & 4	ND		6760	4020		ug/Kg	☼	59	35 - 106
Naphthalene	200		6760	4800		ug/Kg	☼	68	40 - 100
2-Nitroaniline	ND		6760	5210		ug/Kg	☼	77	40 - 114
3-Nitroaniline	ND		6760	4510		ug/Kg	☼	67	43 - 109
4-Nitroaniline	ND		6760	4730		ug/Kg	☼	70	37 - 115
Nitrobenzene	ND		6760	4980		ug/Kg	☼	74	38 - 104
2-Nitrophenol	ND		6760	5020		ug/Kg	☼	74	43 - 109
4-Nitrophenol	ND		13500	8520		ug/Kg	☼	63	22 - 140
N-Nitrosodi-n-propylamine	ND		6760	4640		ug/Kg	☼	69	39 - 103
N-Nitrosodiphenylamine	ND		6760	5120		ug/Kg	☼	76	43 - 100
2,2'-oxybis[1-chloropropane]	ND		6760	2480		ug/Kg	☼	37	27 - 104
Pentachlorophenol	ND		13500	3660		ug/Kg	☼	27	26 - 115
Phenanthrene	510		6760	5820		ug/Kg	☼	79	43 - 100
Phenol	ND		6760	4100		ug/Kg	☼	61	30 - 105
Pyrene	410		6760	5660		ug/Kg	☼	78	42 - 100
1,2,4,5-Tetrachlorobenzene	ND		6760	5050		ug/Kg	☼	75	41 - 100
2,3,4,6-Tetrachlorophenol	ND		6760	3250		ug/Kg	☼	48	41 - 107
2,4,5-Trichlorophenol	ND		6760	4360		ug/Kg	☼	64	44 - 103
2,4,6-Trichlorophenol	ND		6760	4590		ug/Kg	☼	68	44 - 107

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*34 - 100*
2-Fluorophenol (Surr)	*64*		*24 - 109*
Nitrobenzene-d5 (Surr)	*75*		*31 - 105*
Phenol-d5 (Surr)	*62*		*24 - 106*
Terphenyl-d14 (Surr)	*71*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*59*		*21 - 114*

Lab Sample ID: 180-58515-1 MSD
Matrix: Solid
Analysis Batch: 188021

Client Sample ID: STI-FD-4
Prep Type: Total/NA
Prep Batch: 187975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	50	J	6810	4700		ug/Kg	☼	68	40 - 100	6	25
Acenaphthylene	28	J	6810	4750		ug/Kg	☼	69	44 - 100	6	23
Acetophenone	ND		6810	3970		ug/Kg	☼	58	33 - 100	5	26
Anthracene	120		6810	4710		ug/Kg	☼	67	45 - 100	7	26
Atrazine	ND		6810	3760		ug/Kg	☼	55	17 - 123	7	28
Benzaldehyde	ND		6810	1760		ug/Kg	☼	26	10 - 107	4	27
Benzo[a]anthracene	230		6810	4890		ug/Kg	☼	68	45 - 100	4	20
Benzo[a]pyrene	160		6810	4520		ug/Kg	☼	64	43 - 102	5	23
Benzo[b]fluoranthene	290		6810	4590		ug/Kg	☼	63	40 - 100	5	24
Benzo[g,h,i]perylene	120		6810	4310		ug/Kg	☼	62	41 - 110	6	22
Benzo[k]fluoranthene	78		6810	4440		ug/Kg	☼	64	41 - 100	1	20
1,1'-Biphenyl	40	J	6810	4720		ug/Kg	☼	69	41 - 100	6	26
Bis(2-chloroethoxy)methane	ND		6810	4330		ug/Kg	☼	64	41 - 100	5	33
Bis(2-chloroethyl)ether	ND		6810	4100		ug/Kg	☼	60	39 - 100	6	25
Bis(2-ethylhexyl) phthalate	ND		6810	5890		ug/Kg	☼	86	46 - 107	5	20
4-Bromophenyl phenyl ether	ND		6810	4720		ug/Kg	☼	69	46 - 101	5	27
Butyl benzyl phthalate	ND		6810	5520		ug/Kg	☼	81	45 - 108	7	20
Caprolactam	ND		6810	3230		ug/Kg	☼	48	40 - 114	4	29
Carbazole	48	J	6810	4590		ug/Kg	☼	67	42 - 103	5	25
4-Chloroaniline	ND		6810	3670		ug/Kg	☼	54	42 - 100	6	30
4-Chloro-3-methylphenol	ND		6810	4250		ug/Kg	☼	62	39 - 109	5	31
2-Chloronaphthalene	ND		6810	4720		ug/Kg	☼	69	42 - 100	6	27
2-Chlorophenol	ND		6810	4200		ug/Kg	☼	62	35 - 105	6	23
4-Chlorophenyl phenyl ether	ND		6810	4300		ug/Kg	☼	63	46 - 100	6	24
Chrysene	270		6810	4550		ug/Kg	☼	63	45 - 100	6	20
Dibenz(a,h)anthracene	47	J	6810	4610		ug/Kg	☼	67	42 - 110	7	27
Dibenzofuran	110	J	6810	4680		ug/Kg	☼	67	44 - 100	5	24
3,3'-Dichlorobenzidine	ND	F1	6810	2320	F1	ug/Kg	☼	34	39 - 100	4	22
2,4-Dichlorophenol	ND		6810	4170		ug/Kg	☼	61	39 - 106	6	28
Diethyl phthalate	ND		6810	5010		ug/Kg	☼	74	46 - 102	6	24
2,4-Dimethylphenol	ND		6810	2850		ug/Kg	☼	42	36 - 107	6	29
Dimethyl phthalate	ND		6810	4920		ug/Kg	☼	72	47 - 102	4	26
Di-n-butyl phthalate	ND		6810	5060		ug/Kg	☼	74	46 - 107	6	25
4,6-Dinitro-2-methylphenol	ND		13600	6820		ug/Kg	☼	50	43 - 107	6	20
2,4-Dinitrophenol	ND	F1	13600	2010	F1	ug/Kg	☼	15	33 - 106	7	21
2,4-Dinitrotoluene	ND		6810	4520		ug/Kg	☼	66	46 - 112	6	24
2,6-Dinitrotoluene	ND		6810	4720		ug/Kg	☼	69	48 - 104	5	23
Di-n-octyl phthalate	ND		6810	5150		ug/Kg	☼	76	41 - 105	5	25
1,4-Dioxane	ND		6810	3640		ug/Kg	☼	53	13 - 122	7	20
Fluoranthene	380		6810	4990		ug/Kg	☼	68	43 - 106	5	26
Fluorene	47	J	6810	4570		ug/Kg	☼	66	42 - 100	6	26
Hexachlorobenzene	ND		6810	4670		ug/Kg	☼	69	46 - 100	7	25
Hexachlorobutadiene	ND		6810	4340		ug/Kg	☼	64	42 - 102	6	28
Hexachlorocyclopentadiene	ND		6810	4270		ug/Kg	☼	63	35 - 110	5	30
Hexachloroethane	ND		6810	4560		ug/Kg	☼	67	38 - 100	5	26
Indeno[1,2,3-cd]pyrene	110		6810	4580		ug/Kg	☼	66	41 - 110	5	25
Isophorone	ND		6810	4310		ug/Kg	☼	63	40 - 104	5	30
2-Methylnaphthalene	200		6810	4390		ug/Kg	☼	62	42 - 100	5	29
2-Methylphenol	ND		6810	3680		ug/Kg	☼	54	34 - 106	5	29
Methylphenol, 3 & 4	ND		6810	3810		ug/Kg	☼	56	35 - 106	5	27

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

Lab Sample ID: 180-58515-1 MSD
Matrix: Solid
Analysis Batch: 188021

Client Sample ID: STI-FD-4
Prep Type: Total/NA
Prep Batch: 187975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	200		6810	4570		ug/Kg	☼	64	40 - 100	5	27
2-Nitroaniline	ND		6810	4920		ug/Kg	☼	72	40 - 114	6	27
3-Nitroaniline	ND		6810	4260		ug/Kg	☼	63	43 - 109	6	29
4-Nitroaniline	ND		6810	4430		ug/Kg	☼	65	37 - 115	7	20
Nitrobenzene	ND		6810	4750		ug/Kg	☼	70	38 - 104	5	26
2-Nitrophenol	ND		6810	4760		ug/Kg	☼	70	43 - 109	5	29
4-Nitrophenol	ND		13600	8230		ug/Kg	☼	60	22 - 140	4	24
N-Nitrosodi-n-propylamine	ND		6810	4420		ug/Kg	☼	65	39 - 103	5	28
N-Nitrosodiphenylamine	ND		6810	4780		ug/Kg	☼	70	43 - 100	7	25
2,2'-oxybis[1-chloropropane]	ND		6810	2350		ug/Kg	☼	35	27 - 104	5	27
Pentachlorophenol	ND		13600	3700		ug/Kg	☼	27	26 - 115	1	29
Phenanthrene	510		6810	5530		ug/Kg	☼	74	43 - 100	5	22
Phenol	ND		6810	3900		ug/Kg	☼	57	30 - 105	5	24
Pyrene	410		6810	5200		ug/Kg	☼	70	42 - 100	9	20
1,2,4,5-Tetrachlorobenzene	ND		6810	4730		ug/Kg	☼	70	41 - 100	7	29
2,3,4,6-Tetrachlorophenol	ND		6810	3150		ug/Kg	☼	46	41 - 107	3	25
2,4,5-Trichlorophenol	ND		6810	4170		ug/Kg	☼	61	44 - 103	4	27
2,4,6-Trichlorophenol	ND		6810	4390		ug/Kg	☼	64	44 - 107	4	29

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*34 - 100*
2-Fluorophenol (Surr)	*60*		*24 - 109*
Nitrobenzene-d5 (Surr)	*70*		*31 - 105*
Phenol-d5 (Surr)	*59*		*24 - 106*
Terphenyl-d14 (Surr)	*66*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*56*		*21 - 114*

Lab Sample ID: MB 180-188340/1-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		67	6.4	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Acenaphthylene	ND		67	7.6	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Acetophenone	ND		330	27	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Anthracene	ND		67	6.5	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Atrazine	ND		330	32	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzaldehyde	ND		330	50	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[a]anthracene	ND		67	8.4	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[a]pyrene	ND		67	6.7	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[b]fluoranthene	ND		67	10	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[g,h,i]perylene	ND		67	6.6	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[k]fluoranthene	ND		67	13	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
1,1'-Biphenyl	ND		330	30	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Bis(2-chloroethoxy)methane	ND		330	22	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Bis(2-chloroethyl)ether	ND		67	9.0	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Bis(2-ethylhexyl) phthalate	ND		670	54	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Bromophenyl phenyl ether	ND		330	29	ug/Kg		09/19/16 03:00	09/19/16 22:57	1

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

Lab Sample ID: MB 180-188340/1-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		330	46	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Caprolactam	ND		1700	250	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Carbazole	ND		67	6.1	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Chloroaniline	ND		330	27	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Chloro-3-methylphenol	ND		330	31	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Chloronaphthalene	ND		67	7.0	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Chlorophenol	ND		330	27	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Chlorophenyl phenyl ether	ND		330	37	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Chrysene	ND		67	7.9	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Dibenz(a,h)anthracene	ND		67	7.4	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Dibenzofuran	ND		330	33	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
3,3'-Dichlorobenzidine	ND		330	35	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4-Dichlorophenol	ND		67	6.7	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Diethyl phthalate	ND		330	36	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4-Dimethylphenol	ND		330	52	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Dimethyl phthalate	ND		330	36	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Di-n-butyl phthalate	ND		330	42	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4,6-Dinitro-2-methylphenol	ND		1700	130	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4-Dinitrophenol	ND		1700	400	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4-Dinitrotoluene	ND		330	27	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,6-Dinitrotoluene	ND		330	34	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Di-n-octyl phthalate	ND		330	35	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
1,4-Dioxane	ND		670	38	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Fluoranthene	ND		67	7.1	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Fluorene	ND		67	8.8	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Hexachlorobenzene	ND		67	7.1	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Hexachlorobutadiene	ND		67	7.5	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Hexachlorocyclopentadiene	ND		330	36	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Hexachloroethane	ND		330	24	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Indeno[1,2,3-cd]pyrene	ND		67	6.9	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Isophorone	ND		330	25	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Methylnaphthalene	ND		67	6.0	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Methylphenol	ND		330	23	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Methylphenol, 3 & 4	ND		330	33	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Naphthalene	ND		67	5.7	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Nitroaniline	ND		1700	150	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
3-Nitroaniline	ND		1700	140	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Nitroaniline	ND		1700	140	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Nitrobenzene	ND		670	28	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Nitrophenol	ND		330	37	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Nitrophenol	ND		1700	120	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
N-Nitrosodi-n-propylamine	ND		67	7.8	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
N-Nitrosodiphenylamine	ND		330	31	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,2'-oxybis[1-chloropropane]	ND		67	7.2	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Pentachlorophenol	ND		330	30	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Phenanthrene	ND		67	11	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Phenol	ND		67	7.9	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Pyrene	ND		67	6.7	ug/Kg		09/19/16 03:00	09/19/16 22:57	1

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

Lab Sample ID: MB 180-188340/1-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		330	25	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,3,4,6-Tetrachlorophenol	ND		330	21	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4,5-Trichlorophenol	ND		330	36	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4,6-Trichlorophenol	ND		330	50	ug/Kg		09/19/16 03:00	09/19/16 22:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 100*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
2-Fluorophenol (Surr)	*79*		*24 - 109*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
Nitrobenzene-d5 (Surr)	*73*		*31 - 105*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
Phenol-d5 (Surr)	*74*		*24 - 106*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
Terphenyl-d14 (Surr)	*72*		*34 - 104*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*21 - 114*	*09/19/16 03:00*	*09/19/16 22:57*	*1*

Lab Sample ID: LCS 180-188340/2-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6670	5230		ug/Kg		78	40 - 100
Acenaphthylene	6670	5260		ug/Kg		79	44 - 100
Acetophenone	6670	4630		ug/Kg		69	33 - 100
Anthracene	6670	5140		ug/Kg		77	45 - 100
Atrazine	6670	7950		ug/Kg		119	17 - 123
Benzaldehyde	6670	2150		ug/Kg		32	10 - 107
Benzo[a]anthracene	6670	5220		ug/Kg		78	45 - 100
Benzo[a]pyrene	6670	5120		ug/Kg		77	43 - 102
Benzo[b]fluoranthene	6670	4410		ug/Kg		66	40 - 100
Benzo[g,h,i]perylene	6670	6080		ug/Kg		91	41 - 110
Benzo[k]fluoranthene	6670	4820		ug/Kg		72	41 - 100
1,1'-Biphenyl	6670	5470		ug/Kg		82	41 - 100
Bis(2-chloroethoxy)methane	6670	5440		ug/Kg		82	41 - 100
Bis(2-chloroethyl)ether	6670	5390		ug/Kg		81	39 - 100
Bis(2-ethylhexyl) phthalate	6670	5320		ug/Kg		80	46 - 107
4-Bromophenyl phenyl ether	6670	5320		ug/Kg		80	46 - 101
Butyl benzyl phthalate	6670	5260		ug/Kg		79	45 - 108
Caprolactam	6670	4980		ug/Kg		75	40 - 114
Carbazole	6670	4970		ug/Kg		75	42 - 103
4-Chloroaniline	6670	5080		ug/Kg		76	42 - 100
4-Chloro-3-methylphenol	6670	5100		ug/Kg		77	39 - 109
2-Chloronaphthalene	6670	5430		ug/Kg		81	42 - 100
2-Chlorophenol	6670	5050		ug/Kg		76	35 - 105
4-Chlorophenyl phenyl ether	6670	5030		ug/Kg		75	46 - 100
Chrysene	6670	5390		ug/Kg		81	45 - 100
Dibenz(a,h)anthracene	6670	6070		ug/Kg		91	42 - 110
Dibenzofuran	6670	5250		ug/Kg		79	44 - 100
3,3'-Dichlorobenzidine	6670	5250		ug/Kg		79	39 - 100
2,4-Dichlorophenol	6670	5130		ug/Kg		77	39 - 106
Diethyl phthalate	6670	4960		ug/Kg		74	46 - 102

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

Lab Sample ID: LCS 180-188340/2-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	6670	5080		ug/Kg		76	36 - 107
Dimethyl phthalate	6670	5170		ug/Kg		78	47 - 102
Di-n-butyl phthalate	6670	5210		ug/Kg		78	46 - 107
4,6-Dinitro-2-methylphenol	13300	10300		ug/Kg		77	43 - 107
2,4-Dinitrophenol	13300	9320		ug/Kg		70	33 - 106
2,4-Dinitrotoluene	6670	5320		ug/Kg		80	46 - 112
2,6-Dinitrotoluene	6670	5410		ug/Kg		81	48 - 104
Di-n-octyl phthalate	6670	4700		ug/Kg		70	41 - 105
1,4-Dioxane	6670	6120		ug/Kg		92	13 - 122
Fluoranthene	6670	4980		ug/Kg		75	43 - 106
Fluorene	6670	5160		ug/Kg		77	42 - 100
Hexachlorobenzene	6670	5560		ug/Kg		83	46 - 100
Hexachlorobutadiene	6670	5030		ug/Kg		75	42 - 102
Hexachlorocyclopentadiene	6670	5720		ug/Kg		86	35 - 110
Hexachloroethane	6670	5020		ug/Kg		75	38 - 100
Indeno[1,2,3-cd]pyrene	6670	5960		ug/Kg		89	41 - 110
Isophorone	6670	5260		ug/Kg		79	40 - 104
2-Methylnaphthalene	6670	5160		ug/Kg		77	42 - 100
2-Methylphenol	6670	5090		ug/Kg		76	34 - 106
Methylphenol, 3 & 4	6670	5270		ug/Kg		79	35 - 106
Naphthalene	6670	5230		ug/Kg		78	40 - 100
2-Nitroaniline	6670	5740		ug/Kg		86	40 - 114
3-Nitroaniline	6670	5290		ug/Kg		79	43 - 109
4-Nitroaniline	6670	5240		ug/Kg		79	37 - 115
Nitrobenzene	6670	5710		ug/Kg		86	38 - 104
2-Nitrophenol	6670	5560		ug/Kg		83	43 - 109
4-Nitrophenol	13300	11300		ug/Kg		85	22 - 140
N-Nitrosodi-n-propylamine	6670	5700		ug/Kg		86	39 - 103
N-Nitrosodiphenylamine	6670	5260		ug/Kg		79	43 - 100
2,2'-oxybis[1-chloropropane]	6670	7450	*	ug/Kg		112	27 - 104
Pentachlorophenol	13300	10600		ug/Kg		80	26 - 115
Phenanthrene	6670	5150		ug/Kg		77	43 - 100
Phenol	6670	5580		ug/Kg		84	30 - 105
Pyrene	6670	4890		ug/Kg		73	42 - 100
1,2,4,5-Tetrachlorobenzene	6670	5190		ug/Kg		78	41 - 100
2,3,4,6-Tetrachlorophenol	6670	4890		ug/Kg		73	41 - 107
2,4,5-Trichlorophenol	6670	4990		ug/Kg		75	44 - 103
2,4,6-Trichlorophenol	6670	5280		ug/Kg		79	44 - 107

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 100*
2-Fluorophenol (Surr)	*86*		*24 - 109*
Nitrobenzene-d5 (Surr)	*85*		*31 - 105*
Phenol-d5 (Surr)	*82*		*24 - 106*
Terphenyl-d14 (Surr)	*79*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*96*		*21 - 114*

GC/MS Semi VOA

Prep Batch: 187975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58515-1	STI-FD-4	Total/NA	Solid	3541	
180-58515-2	STI-FD-5	Total/NA	Solid	3541	
180-58515-3	STI-B38-SUB-0.17-2	Total/NA	Solid	3541	
180-58515-4	STI-B40-SS	Total/NA	Solid	3541	
180-58515-5	STI-B40-SUB-0.17-2	Total/NA	Solid	3541	
180-58515-6	STI-B44-SUB-0.17-2	Total/NA	Solid	3541	
180-58515-7	STI-B42-SS	Total/NA	Solid	3541	
180-58515-8	STI-B42-SUB-0.17-2	Total/NA	Solid	3541	
180-58515-9	STI-B43-SS	Total/NA	Solid	3541	
180-58515-10	STI-B43-SUB-0.17-2	Total/NA	Solid	3541	
180-58515-11	STI-B41-SS	Total/NA	Solid	3541	
180-58515-12	STI-B41-SUB-0.17-2	Total/NA	Solid	3541	
180-58515-13	STI-B39-SS	Total/NA	Solid	3541	
180-58515-14	STI-B39-SUB-0.17-2	Total/NA	Solid	3541	
MB 180-187975/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-187975/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-58515-1 MS	STI-FD-4	Total/NA	Solid	3541	
180-58515-1 MSD	STI-FD-4	Total/NA	Solid	3541	

Analysis Batch: 188021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58515-1	STI-FD-4	Total/NA	Solid	8270D	187975
180-58515-2	STI-FD-5	Total/NA	Solid	8270D	187975
180-58515-3	STI-B38-SUB-0.17-2	Total/NA	Solid	8270D	187975
180-58515-4	STI-B40-SS	Total/NA	Solid	8270D	187975
180-58515-5	STI-B40-SUB-0.17-2	Total/NA	Solid	8270D	187975
180-58515-6	STI-B44-SUB-0.17-2	Total/NA	Solid	8270D	187975
180-58515-7	STI-B42-SS	Total/NA	Solid	8270D	187975
180-58515-8	STI-B42-SUB-0.17-2	Total/NA	Solid	8270D	187975
180-58515-9	STI-B43-SS	Total/NA	Solid	8270D	187975
180-58515-10	STI-B43-SUB-0.17-2	Total/NA	Solid	8270D	187975
180-58515-11	STI-B41-SS	Total/NA	Solid	8270D	187975
180-58515-12	STI-B41-SUB-0.17-2	Total/NA	Solid	8270D	187975
180-58515-13	STI-B39-SS	Total/NA	Solid	8270D	187975
180-58515-14	STI-B39-SUB-0.17-2	Total/NA	Solid	8270D	187975
MB 180-187975/1-A	Method Blank	Total/NA	Solid	8270D	187975
LCS 180-187975/2-A	Lab Control Sample	Total/NA	Solid	8270D	187975
180-58515-1 MS	STI-FD-4	Total/NA	Solid	8270D	187975
180-58515-1 MSD	STI-FD-4	Total/NA	Solid	8270D	187975

Prep Batch: 188340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58515-15	STI-B38-SS	Total/NA	Solid	3541	
180-58515-15 - DL	STI-B38-SS	Total/NA	Solid	3541	
MB 180-188340/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-188340/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 188457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58515-15	STI-B38-SS	Total/NA	Solid	8270D	188340
MB 180-188340/1-A	Method Blank	Total/NA	Solid	8270D	188340

GC/MS Semi VOA (Continued)

Analysis Batch: 188457 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-188340/2-A	Lab Control Sample	Total/NA	Solid	8270D	188340

Analysis Batch: 188762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58515-15 - DL	STI-B38-SS	Total/NA	Solid	8270D	188340

General Chemistry

Analysis Batch: 188241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58515-1	STI-FD-4	Total/NA	Solid	2540G	
180-58515-2	STI-FD-5	Total/NA	Solid	2540G	
180-58515-3	STI-B38-SUB-0.17-2	Total/NA	Solid	2540G	
180-58515-4	STI-B40-SS	Total/NA	Solid	2540G	
180-58515-5	STI-B40-SUB-0.17-2	Total/NA	Solid	2540G	
180-58515-6	STI-B44-SUB-0.17-2	Total/NA	Solid	2540G	
180-58515-7	STI-B42-SS	Total/NA	Solid	2540G	
180-58515-8	STI-B42-SUB-0.17-2	Total/NA	Solid	2540G	
180-58515-9	STI-B43-SS	Total/NA	Solid	2540G	
180-58515-10	STI-B43-SUB-0.17-2	Total/NA	Solid	2540G	
180-58515-11	STI-B41-SS	Total/NA	Solid	2540G	
180-58515-12	STI-B41-SUB-0.17-2	Total/NA	Solid	2540G	
180-58515-13	STI-B39-SS	Total/NA	Solid	2540G	
180-58515-14	STI-B39-SUB-0.17-2	Total/NA	Solid	2540G	
180-58515-15	STI-B38-SS	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
Phone: 412.963.7058 Fax: 412.963.2470

Chain of Custody Record

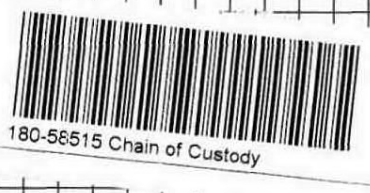
147400

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

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

Client Contact	Project Manager: A. Krasnopolsky	Site Contact: J. Thompson	Date: 9/7/16	COC No:
Company Name: Geosyntec Consultants	Tel/Fax: 410-381-4333	Lab Contact:	Carrier: Fed Ex	1 of 3 COCs
Address: 10211 Wincopin Circle 4th Fl	Analysis Turnaround Time: ☐ CALENDAR DAYS ☑ WORKING DAYS			Sampler: JT
City/State/Zip: Columbia MD 21044	TAT if different from Below: ☑ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			For Lab Use Only: Walk-in Client: Lab Sampling:
Phone: 410-381-4333				
Fax: 410-381-4499				Job / SDG No.:
Project Name: former Scott Tech. Site				
Site: STI				
P O # MN08320				

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	SVOCs + 1,4-Dioxane, 8270	Sample Specific Notes:
STI-B37-SS	9/7/16	1055	C	S	2	N	N	X		Did not recv 9/9/16 or TN 9/10/16 - 9/12/16
STI-B37-SUB-0.17-2		1055	C	S	2	N	N	X		
STI-B34-SS		1040	C	S	2	N	N	X		
STI-B34-SUB-0.17-2		1110	C	S	4	N	Y	X		STI-MS/MSD-2
STI-B36-SS		1045	C	S	2	N	N	X		
STI-B36-SUB-0.17-2		1125	C	S	2	N	N	X		
STI-B35-SUB-SS (Sent 9/7/16)		1050	C	S	2	N	N	X		
STI-B36-SUB-0.17-2		1135	C	S	2	N	N	X		
STI-B45-SS (Sent 9/7/16)		1155	C	S	2	N	N		X	
STI-B45-SUB-0.17-2		1210	C	S	4	N	Y		X	STI-MS/MSD-3
STI-B44-SS		1200	C	S	2	N	N		X	
STI-FD-3	↓	X	C	S	2	N	N	X		↓



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: STI-B34-SUB-0.17-2 + STI-B45-SUB 0.17-2 (4 jars recv'd 2 labled "STI MS/MSD-" each)

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:
Jen Rodgers Jen	Geosyntec	9/8/16 1530		TA BAT	9/10/16 0845 TN
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9/9/16 0935 9/12/16
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Pittsburgh

301 Alpha Drive

Pittsburgh, PA 15238
Phone: 412.963.7058 Fax: 412.963.2470

Chain of Custody Record

147399

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

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

Client Contact	Project Manager: A. Krosnopol.r	Site Contact: J. Thompson	Date: 9/7/16	COC No:
Company Name: GEOSYNTEC	Tel/Fax: 410-381-4333	Lab Contact: A. Dunlap	Carrier: FedEx	2 of 3 COCs
Address: 1021 Winegrove Cir. 4mt Fl	Analysis Turnaround Time			Sampler: JT
City/State/Zip: Columbia MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone: 410-381-4333	TAT if different from Below ____			Walk-in Client:
Fax: 410-381-4499	☐ 2 weeks			Lab Sampling:
Project Name: Fisher Scotts Terminal SIC	☐ 1 week			Job / SDG No.:
Site: Elwin - STC	☐ 2 days			
P O # MN08320	☐ 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)	SVOCs 1,4-Dioxane only
STI-B44-SUB-0.17-2	9/7/16	1215	C	S	2	N	N	X
STI-B42-SUB-SS (JT 9/7/16)		1205	C	S	2			X
STI-B42-SUB-0.17-2		1220	C	S	2			X
STI-B43-SS		1150	C	S	2			X
STI-B43-SUB-0.17-2		1125	C	S	2			X
STI-B41-SUB-SS (JT 9/7/16)		1315	C	S	2			X
STI-B41-SUB-0.17-2		1340	C	S	2			X
STI-B39-SS		1320	C	S	2			X
STI-B39-SUB-0.17-2		1345	C	S	2			X
STI-B38-SS		1325	C	S	2			X
STI-FD-4		X	C	S	2			X
STI-FD-5		X	C	S	2			X

Sample Specific Notes:

RCV'd 9/8/16

D.C. not rcv

JN 9/10/16

JN 9/13/16

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: Jay Thompson	Company: Geosyntec	Date/Time: 9/8/16 1835	Received by:	Company: TA-BTT
Relinquished by:	Company:	Date/Time:	Received by:	Company:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:

Date/Time: 9/10/16 0845 JN 9/12/16

Date/Time: 9/9/16 0935

10/13/2016

TestAmerica Pittsburgh
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Chain of Custody Record

147398

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

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

Client Contact	Project Manager: A. Cronopolus	Site Contact: J. Thompson	Date: 9/7/16	COC No:
Company Name: Geosyntec	Tel/Fax: 410-381-4333	Lab Contact: D. Dahl-P	Carrier: FedEx	3 of 3 COCs
Address: 10211 Wincopin Cir, 4th Fl	Analysis Turnaround Time			Sampler: JT
City/State/Zip: Columbia MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone: 410-381-4333	TAT if different from Below			Walk-in Client:
Fax: 410-381-4499	☑ 2 weeks			Lab Sampling:
Project Name: Tempe Scott Treadway	☐ 1 week			Job / SDG No.:
Site: STCL - Elmo	☐ 2 days			
P O # NP0852C	☐ 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)	SVOCs + 1,4-Dioxane - SIM	Sample Specific Notes:
STL-B36-SUB-0.17-2	9/7/16	1350	C	S	2	N	N	X	
STL-B40-SS	↓	1330	C	S	2	N	N	X	
STL-B40-SUB-0.17-2	↓	1355	C	S	2	N	N	X	

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:
Jay Thompson	Geosyntec	9/7/16 1730		TA Pitt	9/10/16 0845
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
					9/9/16 0935 9/12/16
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-58515-1

Login Number: 58515
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	

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ANALYTICAL REPORT

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

TestAmerica Job ID: 180-58782-1
Client Project/Site: Former Sperry Remington Site - STI

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

Attn: Mr. Aron Krasnopoler

Authorized for release by:
9/30/2016 2:49:47 PM

David Dunlap, Senior Project Manager
(412)963-2432
dave.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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Job ID: 180-58782-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-58782-1

Receipt
The samples were received on 9/17/2016 9:10 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 3.8º C.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix (extract color) and to bring the concentration of target analytes within the calibration range: STI-B45-SS (180-58782-9). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 180-188457 was above criteria for the following analytes: 1,4-dioxane and 2,2-oxybis(1-chloropropane). 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 180-188457 was below criteria for the following analytes: 2,4-dintrophenol, 4,6-dinitro-2-methylphenol, and atrazine. 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) 8270D: The laboratory control sample (LCS) for preparation batch 180-188340 recovered above the control limits for the following analyte: 2,2'-oxybis(1-chloropropane). As the recovery in the LCS was high and this analyte was not detected in the associated samples, the results were reported.

Method(s) 8270D: The matrix spike/matrix spike duplicate (MS/MSD) of sample STI-B45-SUB-0.17-2 (180-58782-10) recovered above the control limits for 2,2'-oxybis(1-chloropropane).

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: STI-B37-SS (180-58782-7). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-188944 was below criteria for surrogate decachlorobiphenyl on column RTX-CLP1. Column RTX-CLP2, which met criteria, was used as the primary column for this surrogate.

Method(s) 8082A: The method blank, MB 180-188772/1-A, had PCB-1248 detected above the method detection limit, but below the reporting limit.

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 - STI

TestAmerica Job ID: 180-58782-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Certification Summary

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

TestAmerica Job ID: 180-58782-1

Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-17

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

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D	3541	Solid	1,4-Dioxane

Sample Summary

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

TestAmerica Job ID: 180-58782-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-58782-1	STI-B34-SS	Solid	09/16/16 07:20	09/17/16 09:10
180-58782-2	STI-B34-SUB-0.17-2	Solid	09/16/16 08:00	09/17/16 09:10
180-58782-3	STI-B35-SS	Solid	09/16/16 07:20	09/17/16 09:10
180-58782-4	STI-B35-SUB-0.17-2	Solid	09/16/16 08:10	09/17/16 09:10
180-58782-5	STI-B36-SS	Solid	09/16/16 07:15	09/17/16 09:10
180-58782-6	STI-B36-SUB-0.17-2	Solid	09/16/16 08:20	09/17/16 09:10
180-58782-7	STI-B37-SS	Solid	09/16/16 07:25	09/17/16 09:10
180-58782-8	STI-B37-SUB-0.17-2	Solid	09/16/16 08:30	09/17/16 09:10
180-58782-9	STI-B45-SS	Solid	09/16/16 07:25	09/17/16 09:10
180-58782-10	STI-B45-SUB-0.17-2	Solid	09/16/16 08:40	09/17/16 09:10
180-58782-11	STI-FD-3	Solid	09/16/16 00:00	09/17/16 09:10

Method Summary

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

TestAmerica Job ID: 180-58782-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

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 - STI

TestAmerica Job ID: 180-58782-1

Client Sample ID: STI-B34-SS
Date Collected: 09/16/16 07:20
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-1
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			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B34-SS
Date Collected: 09/16/16 07:20
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-1
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	188772	09/22/16 04:56	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188939	09/23/16 08:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188940	09/23/16 08:26	JMO	TAL PIT
Total/NA	Analysis	8082A		1			188944	09/23/16 18:47	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: STI-B34-SUB-0.17-2
Date Collected: 09/16/16 08:00
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-2
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			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B34-SUB-0.17-2
Date Collected: 09/16/16 08:00
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-2
Matrix: Solid
Percent Solids: 95.2

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	188772	09/22/16 04:56	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188939	09/23/16 08:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188940	09/23/16 08:26	JMO	TAL PIT
Total/NA	Analysis	8082A		1			188944	09/23/16 19:05	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: STI-B35-SS
Date Collected: 09/16/16 07:20
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-3
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			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

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

TestAmerica Job ID: 180-58782-1

Client Sample ID: STI-B35-SS
Date Collected: 09/16/16 07:20
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-3
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			15.0 g	20.0 mL	188772	09/22/16 04:56	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188939	09/23/16 08:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188940	09/23/16 08:26	JMO	TAL PIT
Total/NA	Analysis	8082A		1			188944	09/23/16 20:02	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: STI-B35-SUB-0.17-2
Date Collected: 09/16/16 08:10
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-4
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			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B35-SUB-0.17-2
Date Collected: 09/16/16 08:10
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-4
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			15.2 g	20.0 mL	188772	09/22/16 04:56	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188939	09/23/16 08:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188940	09/23/16 08:26	JMO	TAL PIT
Total/NA	Analysis	8082A		1			188944	09/23/16 20:21	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: STI-B36-SS
Date Collected: 09/16/16 07:15
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-5
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			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B36-SS
Date Collected: 09/16/16 07:15
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-5
Matrix: Solid
Percent Solids: 93.0

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	188772	09/22/16 04:56	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188939	09/23/16 08:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188940	09/23/16 08:26	JMO	TAL PIT
Total/NA	Analysis	8082A		1			188944	09/23/16 20:40	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

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

TestAmerica Job ID: 180-58782-1

Client Sample ID: STI-B36-SUB-0.17-2
Date Collected: 09/16/16 08:20
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-6
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			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B36-SUB-0.17-2
Date Collected: 09/16/16 08:20
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-6
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			15.2 g	20.0 mL	188772	09/22/16 04:56	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188939	09/23/16 08:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188940	09/23/16 08:26	JMO	TAL PIT
Total/NA	Analysis	8082A		1			188944	09/23/16 20:58	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: STI-B37-SS
Date Collected: 09/16/16 07:25
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-7
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			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B37-SS
Date Collected: 09/16/16 07:25
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-7
Matrix: Solid
Percent Solids: 94.6

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	188772	09/22/16 04:56	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188939	09/23/16 08:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188940	09/23/16 08:26	JMO	TAL PIT
Total/NA	Analysis	8082A		10			189146	09/26/16 23:00	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: STI-B37-SUB-0.17-2
Date Collected: 09/16/16 08:30
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-8
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			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B37-SUB-0.17-2

Lab Sample ID: 180-58782-8
Date Collected: 09/16/16 08:30
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 94.7

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	188772	09/22/16 04:56	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188939	09/23/16 08:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188940	09/23/16 08:26	JMO	TAL PIT
Total/NA	Analysis	8082A		1			188944	09/23/16 21:36	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: STI-B45-SS

Lab Sample ID: 180-58782-9
Date Collected: 09/16/16 07:25
Matrix: Solid
Date Received: 09/17/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B45-SS

Lab Sample ID: 180-58782-9
Date Collected: 09/16/16 07:25
Matrix: Solid
Date Received: 09/17/16 09:10
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	5.0 mL	188340	09/19/16 03:00	KLG	TAL PIT
Total/NA	Analysis	8270D		10	1 mL	1 mL	188457	09/20/16 03:31	FBB	TAL PIT
	Instrument ID: CH71									

Client Sample ID: STI-B45-SUB-0.17-2

Lab Sample ID: 180-58782-10
Date Collected: 09/16/16 08:40
Matrix: Solid
Date Received: 09/17/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-B45-SUB-0.17-2

Lab Sample ID: 180-58782-10
Date Collected: 09/16/16 08:40
Matrix: Solid
Date Received: 09/17/16 09:10
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			15.1 g	5.0 mL	188340	09/19/16 03:00	KLG	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	188457	09/20/16 03:58	FBB	TAL PIT
	Instrument ID: CH71									

Lab Chronicle

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

TestAmerica Job ID: 180-58782-1

Client Sample ID: STI-FD-3
Date Collected: 09/16/16 00:00
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-11
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			188824	09/22/16 09:03	CLL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: STI-FD-3
Date Collected: 09/16/16 00:00
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-11
Matrix: Solid
Percent Solids: 94.5

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	188772	09/22/16 04:56	KLG	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	188939	09/23/16 08:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	188940	09/23/16 08:26	JMO	TAL PIT
Total/NA	Analysis	8082A		1			188944	09/23/16 21:55	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

KLG = Kevin Geehring

Batch Type: Analysis

CLL = Cheryl Loheyde

FBB = Frank Bungard

JMO = John Oravec

Client Sample ID: STI-B34-SS

Lab Sample ID: 180-58782-1
Date Collected: 09/16/16 07:20
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	8.3	ug/Kg	☼	09/22/16 04:56	09/23/16 18:47	1
PCB-1221	ND		18	13	ug/Kg	☼	09/22/16 04:56	09/23/16 18:47	1
PCB-1232	ND		18	4.5	ug/Kg	☼	09/22/16 04:56	09/23/16 18:47	1
PCB-1242	ND		18	6.7	ug/Kg	☼	09/22/16 04:56	09/23/16 18:47	1
PCB-1248	**460**	**B**	18	4.2	ug/Kg	☼	09/22/16 04:56	09/23/16 18:47	1
PCB-1254	**360**		18	6.7	ug/Kg	☼	09/22/16 04:56	09/23/16 18:47	1
PCB-1260	**170**		18	6.2	ug/Kg	☼	09/22/16 04:56	09/23/16 18:47	1
PCB-1262	ND		18	5.6	ug/Kg	☼	09/22/16 04:56	09/23/16 18:47	1
PCB-1268	ND		18	3.4	ug/Kg	☼	09/22/16 04:56	09/23/16 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*23 - 150*	*09/22/16 04:56*	*09/23/16 18:47*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*09/22/16 04:56*	*09/23/16 18:47*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*09/22/16 04:56*	*09/23/16 18:47*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*27 - 138*	*09/22/16 04:56*	*09/23/16 18:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**92.5**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-B34-SUB-0.17-2

Lab Sample ID: 180-58782-2
Date Collected: 09/16/16 08:00
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	7.9	ug/Kg	☼	09/22/16 04:56	09/23/16 19:05	1
PCB-1221	ND		17	13	ug/Kg	☼	09/22/16 04:56	09/23/16 19:05	1
PCB-1232	ND		17	4.3	ug/Kg	☼	09/22/16 04:56	09/23/16 19:05	1
PCB-1242	ND		17	6.4	ug/Kg	☼	09/22/16 04:56	09/23/16 19:05	1
PCB-1248	**18**	**B**	17	4.0	ug/Kg	☼	09/22/16 04:56	09/23/16 19:05	1
PCB-1254	**13**	**J**	17	6.4	ug/Kg	☼	09/22/16 04:56	09/23/16 19:05	1
PCB-1260	**6.8**	**J**	17	5.9	ug/Kg	☼	09/22/16 04:56	09/23/16 19:05	1
PCB-1262	ND		17	5.4	ug/Kg	☼	09/22/16 04:56	09/23/16 19:05	1
PCB-1268	ND		17	3.2	ug/Kg	☼	09/22/16 04:56	09/23/16 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*09/22/16 04:56*	*09/23/16 19:05*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*09/22/16 04:56*	*09/23/16 19:05*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*09/22/16 04:56*	*09/23/16 19:05*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*09/22/16 04:56*	*09/23/16 19:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.8**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**95.2**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-B35-SS

Lab Sample ID: 180-58782-3
Date Collected: 09/16/16 07:20
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	8.4	ug/Kg	☼	09/22/16 04:56	09/23/16 20:02	1
PCB-1221	ND		18	13	ug/Kg	☼	09/22/16 04:56	09/23/16 20:02	1
PCB-1232	ND		18	4.6	ug/Kg	☼	09/22/16 04:56	09/23/16 20:02	1
PCB-1242	ND		18	6.7	ug/Kg	☼	09/22/16 04:56	09/23/16 20:02	1
PCB-1248	**690**	**B**	18	4.3	ug/Kg	☼	09/22/16 04:56	09/23/16 20:02	1
PCB-1254	**380**		18	6.7	ug/Kg	☼	09/22/16 04:56	09/23/16 20:02	1
PCB-1260	**150**		18	6.3	ug/Kg	☼	09/22/16 04:56	09/23/16 20:02	1
PCB-1262	ND		18	5.7	ug/Kg	☼	09/22/16 04:56	09/23/16 20:02	1
PCB-1268	ND		18	3.4	ug/Kg	☼	09/22/16 04:56	09/23/16 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*23 - 150*	*09/22/16 04:56*	*09/23/16 20:02*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*09/22/16 04:56*	*09/23/16 20:02*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*09/22/16 04:56*	*09/23/16 20:02*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*09/22/16 04:56*	*09/23/16 20:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**91.5**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-B35-SUB-0.17-2

Lab Sample ID: 180-58782-4
Date Collected: 09/16/16 08:10
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	8.5	ug/Kg	☼	09/22/16 04:56	09/23/16 20:21	1
PCB-1221	ND		19	13	ug/Kg	☼	09/22/16 04:56	09/23/16 20:21	1
PCB-1232	ND		19	4.7	ug/Kg	☼	09/22/16 04:56	09/23/16 20:21	1
PCB-1242	ND		19	6.9	ug/Kg	☼	09/22/16 04:56	09/23/16 20:21	1
PCB-1248	**210**	**B**	19	4.3	ug/Kg	☼	09/22/16 04:56	09/23/16 20:21	1
PCB-1254	**99**		19	6.9	ug/Kg	☼	09/22/16 04:56	09/23/16 20:21	1
PCB-1260	**36**		19	6.4	ug/Kg	☼	09/22/16 04:56	09/23/16 20:21	1
PCB-1262	ND		19	5.8	ug/Kg	☼	09/22/16 04:56	09/23/16 20:21	1
PCB-1268	ND		19	3.5	ug/Kg	☼	09/22/16 04:56	09/23/16 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*09/22/16 04:56*	*09/23/16 20:21*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*09/22/16 04:56*	*09/23/16 20:21*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*09/22/16 04:56*	*09/23/16 20:21*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*09/22/16 04:56*	*09/23/16 20:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**88.5**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-B36-SS

Lab Sample ID: 180-58782-5
Date Collected: 09/16/16 07:15
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	8.2	ug/Kg	☼	09/22/16 04:56	09/23/16 20:40	1
PCB-1221	ND		18	13	ug/Kg	☼	09/22/16 04:56	09/23/16 20:40	1
PCB-1232	ND		18	4.5	ug/Kg	☼	09/22/16 04:56	09/23/16 20:40	1
PCB-1242	ND		18	6.6	ug/Kg	☼	09/22/16 04:56	09/23/16 20:40	1
PCB-1248	**690**	**B**	18	4.2	ug/Kg	☼	09/22/16 04:56	09/23/16 20:40	1
PCB-1254	**370**		18	6.6	ug/Kg	☼	09/22/16 04:56	09/23/16 20:40	1
PCB-1260	**150**		18	6.1	ug/Kg	☼	09/22/16 04:56	09/23/16 20:40	1
PCB-1262	ND		18	5.5	ug/Kg	☼	09/22/16 04:56	09/23/16 20:40	1
PCB-1268	ND		18	3.3	ug/Kg	☼	09/22/16 04:56	09/23/16 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*23 - 150*	*09/22/16 04:56*	*09/23/16 20:40*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*09/22/16 04:56*	*09/23/16 20:40*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*09/22/16 04:56*	*09/23/16 20:40*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*09/22/16 04:56*	*09/23/16 20:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.0**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**93.0**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-B36-SUB-0.17-2

Lab Sample ID: 180-58782-6
Date Collected: 09/16/16 08:20
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	8.3	ug/Kg	☼	09/22/16 04:56	09/23/16 20:58	1
PCB-1221	ND		18	13	ug/Kg	☼	09/22/16 04:56	09/23/16 20:58	1
PCB-1232	ND		18	4.5	ug/Kg	☼	09/22/16 04:56	09/23/16 20:58	1
PCB-1242	ND		18	6.7	ug/Kg	☼	09/22/16 04:56	09/23/16 20:58	1
PCB-1248	**77**	**B**	18	4.2	ug/Kg	☼	09/22/16 04:56	09/23/16 20:58	1
PCB-1254	**41**		18	6.7	ug/Kg	☼	09/22/16 04:56	09/23/16 20:58	1
PCB-1260	**16**	**J**	18	6.2	ug/Kg	☼	09/22/16 04:56	09/23/16 20:58	1
PCB-1262	ND		18	5.6	ug/Kg	☼	09/22/16 04:56	09/23/16 20:58	1
PCB-1268	ND		18	3.4	ug/Kg	☼	09/22/16 04:56	09/23/16 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*23 - 150*	*09/22/16 04:56*	*09/23/16 20:58*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*09/22/16 04:56*	*09/23/16 20:58*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*09/22/16 04:56*	*09/23/16 20:58*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*09/22/16 04:56*	*09/23/16 20:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**90.8**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-B37-SS

Lab Sample ID: 180-58782-7
Date Collected: 09/16/16 07:25
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	81	ug/Kg	☼	09/22/16 04:56	09/26/16 23:00	10
PCB-1221	ND		180	130	ug/Kg	☼	09/22/16 04:56	09/26/16 23:00	10
PCB-1232	ND		180	44	ug/Kg	☼	09/22/16 04:56	09/26/16 23:00	10
PCB-1242	ND		180	65	ug/Kg	☼	09/22/16 04:56	09/26/16 23:00	10
PCB-1248	**22000**	**B**	180	41	ug/Kg	☼	09/22/16 04:56	09/26/16 23:00	10
PCB-1254	**7600**		180	65	ug/Kg	☼	09/22/16 04:56	09/26/16 23:00	10
PCB-1260	**3500**		180	60	ug/Kg	☼	09/22/16 04:56	09/26/16 23:00	10
PCB-1262	ND		180	55	ug/Kg	☼	09/22/16 04:56	09/26/16 23:00	10
PCB-1268	ND		180	33	ug/Kg	☼	09/22/16 04:56	09/26/16 23:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*09/22/16 04:56*	*09/26/16 23:00*	*10*
DCB Decachlorobiphenyl (Surr)	*106*		*23 - 150*	*09/22/16 04:56*	*09/26/16 23:00*	*10*
Tetrachloro-m-xylene (Surr)	*100*		*27 - 138*	*09/22/16 04:56*	*09/26/16 23:00*	*10*
Tetrachloro-m-xylene (Surr)	*97*		*27 - 138*	*09/22/16 04:56*	*09/26/16 23:00*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.4**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**94.6**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-B37-SUB-0.17-2

Lab Sample ID: 180-58782-8
Date Collected: 09/16/16 08:30
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.0	ug/Kg	☼	09/22/16 04:56	09/23/16 21:36	1
PCB-1221	ND		17	13	ug/Kg	☼	09/22/16 04:56	09/23/16 21:36	1
PCB-1232	ND		17	4.4	ug/Kg	☼	09/22/16 04:56	09/23/16 21:36	1
PCB-1242	ND		17	6.4	ug/Kg	☼	09/22/16 04:56	09/23/16 21:36	1
PCB-1248	**640**	**B**	17	4.1	ug/Kg	☼	09/22/16 04:56	09/23/16 21:36	1
PCB-1254	**260**		17	6.4	ug/Kg	☼	09/22/16 04:56	09/23/16 21:36	1
PCB-1260	**94**		17	6.0	ug/Kg	☼	09/22/16 04:56	09/23/16 21:36	1
PCB-1262	ND		17	5.4	ug/Kg	☼	09/22/16 04:56	09/23/16 21:36	1
PCB-1268	ND		17	3.2	ug/Kg	☼	09/22/16 04:56	09/23/16 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*09/22/16 04:56*	*09/23/16 21:36*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*09/22/16 04:56*	*09/23/16 21:36*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*09/22/16 04:56*	*09/23/16 21:36*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*09/22/16 04:56*	*09/23/16 21:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.3**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**94.7**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-B45-SS
Date Collected: 09/16/16 07:25
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-9
Matrix: Solid
Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**470**	**J**	720	69	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Acenaphthylene	**4400**		720	82	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Acetophenone	ND		3500	290	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Anthracene	**3000**		720	70	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Atrazine	ND		3500	350	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Benzaldehyde	ND		3500	540	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Benzo[a]anthracene	**12000**		720	90	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Benzo[a]pyrene	**14000**		720	72	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Benzo[b]fluoranthene	**16000**		720	110	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Benzo[g,h,i]perylene	**16000**		720	71	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Benzo[k]fluoranthene	**8200**		720	140	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
1,1'-Biphenyl	ND		3500	320	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Bis(2-chloroethoxy)methane	ND		3500	240	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Bis(2-chloroethyl)ether	ND		720	96	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Bis(2-ethylhexyl) phthalate	ND		7200	580	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
4-Bromophenyl phenyl ether	ND		3500	310	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Butyl benzyl phthalate	ND		3500	490	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Caprolactam	ND		18000	2700	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Carbazole	**700**	**J**	720	66	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
4-Chloroaniline	ND		3500	290	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
4-Chloro-3-methylphenol	ND		3500	330	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2-Chloronaphthalene	ND		720	75	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2-Chlorophenol	ND		3500	290	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
4-Chlorophenyl phenyl ether	ND		3500	400	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Chrysene	**15000**		720	85	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Dibenz(a,h)anthracene	**4000**		720	80	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Dibenzofuran	**350**	**J**	3500	350	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
3,3'-Dichlorobenzidine	ND		3500	380	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2,4-Dichlorophenol	ND		720	72	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Diethyl phthalate	ND		3500	390	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2,4-Dimethylphenol	ND		3500	560	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Dimethyl phthalate	ND		3500	390	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Di-n-butyl phthalate	ND		3500	450	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
4,6-Dinitro-2-methylphenol	ND		18000	1400	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2,4-Dinitrophenol	ND		18000	4300	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2,4-Dinitrotoluene	ND		3500	290	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2,6-Dinitrotoluene	ND		3500	370	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Di-n-octyl phthalate	ND		3500	380	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
1,4-Dioxane	ND		7200	410	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Fluoranthene	**17000**		720	77	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Fluorene	**730**		720	94	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Hexachlorobenzene	ND		720	76	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Hexachlorobutadiene	ND		720	80	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Hexachlorocyclopentadiene	ND		3500	390	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Hexachloroethane	ND		3500	260	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Indeno[1,2,3-cd]pyrene	**12000**		720	74	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Isophorone	ND		3500	270	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2-Methylnaphthalene	**450**	**J**	720	64	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2-Methylphenol	ND		3500	250	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10

Client Sample ID: STI-B45-SS

Lab Sample ID: 180-58782-9
Date Collected: 09/16/16 07:25
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		3500	350	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Naphthalene	**620**	**J**	720	62	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2-Nitroaniline	ND		18000	1600	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
3-Nitroaniline	ND		18000	1500	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
4-Nitroaniline	ND		18000	1400	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Nitrobenzene	ND		7200	300	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2-Nitrophenol	ND		3500	390	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
4-Nitrophenol	ND		18000	1300	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
N-Nitrosodi-n-propylamine	ND		720	84	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
N-Nitrosodiphenylamine	ND		3500	330	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2,2'-oxybis[1-chloropropane]	ND	*	720	77	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Pentachlorophenol	ND		3500	320	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Phenanthrene	**8000**		720	110	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Phenol	ND		720	85	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
Pyrene	**19000**		720	72	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
1,2,4,5-Tetrachlorobenzene	ND		3500	270	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2,3,4,6-Tetrachlorophenol	ND		3500	230	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2,4,5-Trichlorophenol	ND		3500	380	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10
2,4,6-Trichlorophenol	ND		3500	540	ug/Kg	☼	09/19/16 03:00	09/20/16 03:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*34 - 100*	*09/19/16 03:00*	*09/20/16 03:31*	*10*
2-Fluorophenol (Surr)	*84*		*24 - 109*	*09/19/16 03:00*	*09/20/16 03:31*	*10*
Nitrobenzene-d5 (Surr)	*92*		*31 - 105*	*09/19/16 03:00*	*09/20/16 03:31*	*10*
Phenol-d5 (Surr)	*83*		*24 - 106*	*09/19/16 03:00*	*09/20/16 03:31*	*10*
Terphenyl-d14 (Surr)	*93*		*34 - 104*	*09/19/16 03:00*	*09/20/16 03:31*	*10*
2,4,6-Tribromophenol (Surr)	*105*		*21 - 114*	*09/19/16 03:00*	*09/20/16 03:31*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.8**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**93.2**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-B45-SUB-0.17-2

Lab Sample ID: 180-58782-10
Date Collected: 09/16/16 08:40
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**28**	**J**	72	6.9	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Acenaphthylene	**490**		72	8.2	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Acetophenone	ND		350	29	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Anthracene	**290**		72	7.0	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Atrazine	ND		350	35	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Benzaldehyde	ND		350	54	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Benzo[a]anthracene	**1000**		72	9.0	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Benzo[a]pyrene	**1200**		72	7.2	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Benzo[b]fluoranthene	**1400**		72	11	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Benzo[g,h,i]perylene	**1400**		72	7.1	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Benzo[k]fluoranthene	**530**		72	14	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1

Client Sample ID: STI-B45-SUB-0.17-2
Date Collected: 09/16/16 08:40
Date Received: 09/17/16 09:10

Lab Sample ID: 180-58782-10
Matrix: Solid
Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		350	32	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Bis(2-chloroethoxy)methane	ND		350	24	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Bis(2-chloroethyl)ether	ND		72	9.6	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Bis(2-ethylhexyl) phthalate	ND		720	58	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
4-Bromophenyl phenyl ether	ND		350	31	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Butyl benzyl phthalate	ND		350	49	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Caprolactam	ND		1800	270	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Carbazole	**40**	**J**	72	6.6	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
4-Chloroaniline	ND		350	29	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
4-Chloro-3-methylphenol	ND		350	33	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2-Chloronaphthalene	ND		72	7.5	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2-Chlorophenol	ND		350	29	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
4-Chlorophenyl phenyl ether	ND		350	40	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Chrysene	**1300**		72	8.5	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Dibenz(a,h)anthracene	**330**		72	8.0	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Dibenzofuran	ND		350	35	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
3,3'-Dichlorobenzidine	ND		350	38	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2,4-Dichlorophenol	ND		72	7.2	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Diethyl phthalate	ND		350	39	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2,4-Dimethylphenol	ND		350	56	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Dimethyl phthalate	ND		350	39	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Di-n-butyl phthalate	ND		350	45	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
4,6-Dinitro-2-methylphenol	ND		1800	140	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2,4-Dinitrophenol	ND		1800	430	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2,4-Dinitrotoluene	ND		350	29	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2,6-Dinitrotoluene	ND		350	37	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Di-n-octyl phthalate	ND		350	38	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
1,4-Dioxane	ND		720	41	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Fluoranthene	**1500**		72	7.6	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Fluorene	**44**	**J**	72	9.4	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Hexachlorobenzene	ND		72	7.6	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Hexachlorobutadiene	ND		72	8.0	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Hexachlorocyclopentadiene	ND		350	39	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Hexachloroethane	ND		350	26	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Indeno[1,2,3-cd]pyrene	**1000**		72	7.4	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Isophorone	ND		350	27	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2-Methylnaphthalene	**45**	**J**	72	6.4	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2-Methylphenol	ND		350	25	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Methylphenol, 3 & 4	ND		350	35	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Naphthalene	**57**	**J**	72	6.2	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2-Nitroaniline	ND		1800	160	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
3-Nitroaniline	ND		1800	150	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
4-Nitroaniline	ND		1800	140	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Nitrobenzene	ND		720	30	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2-Nitrophenol	ND		350	39	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
4-Nitrophenol	ND		1800	130	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
N-Nitrosodi-n-propylamine	ND		72	8.4	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
N-Nitrosodiphenylamine	ND		350	33	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2,2'-oxybis[1-chloropropane]	ND	* F1	72	7.7	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1

Client Sample ID: STI-B45-SUB-0.17-2

Lab Sample ID: 180-58782-10
Date Collected: 09/16/16 08:40
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		350	32	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Phenanthrene	**740**		72	11	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Phenol	ND		72	8.4	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
Pyrene	**1500**		72	7.2	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
1,2,4,5-Tetrachlorobenzene	ND		350	27	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2,3,4,6-Tetrachlorophenol	ND		350	23	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2,4,5-Trichlorophenol	ND		350	38	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1
2,4,6-Trichlorophenol	ND		350	54	ug/Kg	☼	09/19/16 03:00	09/20/16 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*34 - 100*	*09/19/16 03:00*	*09/20/16 03:58*	*1*
2-Fluorophenol (Surr)	*72*		*24 - 109*	*09/19/16 03:00*	*09/20/16 03:58*	*1*
Nitrobenzene-d5 (Surr)	*79*		*31 - 105*	*09/19/16 03:00*	*09/20/16 03:58*	*1*
Phenol-d5 (Surr)	*68*		*24 - 106*	*09/19/16 03:00*	*09/20/16 03:58*	*1*
Terphenyl-d14 (Surr)	*71*		*34 - 104*	*09/19/16 03:00*	*09/20/16 03:58*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*21 - 114*	*09/19/16 03:00*	*09/20/16 03:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**92.7**		0.1	0.1	%			09/22/16 09:03	1

Client Sample ID: STI-FD-3

Lab Sample ID: 180-58782-11
Date Collected: 09/16/16 00:00
Matrix: Solid
Date Received: 09/17/16 09:10
Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	8.0	ug/Kg	☼	09/22/16 04:56	09/23/16 21:55	1
PCB-1221	ND		18	13	ug/Kg	☼	09/22/16 04:56	09/23/16 21:55	1
PCB-1232	ND		18	4.4	ug/Kg	☼	09/22/16 04:56	09/23/16 21:55	1
PCB-1242	ND		18	6.5	ug/Kg	☼	09/22/16 04:56	09/23/16 21:55	1
PCB-1248	**1200**	**B**	18	4.1	ug/Kg	☼	09/22/16 04:56	09/23/16 21:55	1
PCB-1254	**510**		18	6.5	ug/Kg	☼	09/22/16 04:56	09/23/16 21:55	1
PCB-1260	**210**		18	6.0	ug/Kg	☼	09/22/16 04:56	09/23/16 21:55	1
PCB-1262	ND		18	5.4	ug/Kg	☼	09/22/16 04:56	09/23/16 21:55	1
PCB-1268	ND		18	3.3	ug/Kg	☼	09/22/16 04:56	09/23/16 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*09/22/16 04:56*	*09/23/16 21:55*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*09/22/16 04:56*	*09/23/16 21:55*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*09/22/16 04:56*	*09/23/16 21:55*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*09/22/16 04:56*	*09/23/16 21:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.5**		0.1	0.1	%			09/22/16 09:03	1
Percent Solids	**94.5**		0.1	0.1	%			09/22/16 09:03	1

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

Lab Sample ID: MB 180-188340/1-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		67	6.4	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Acenaphthylene	ND		67	7.6	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Acetophenone	ND		330	27	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Anthracene	ND		67	6.5	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Atrazine	ND		330	32	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzaldehyde	ND		330	50	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[a]anthracene	ND		67	8.4	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[a]pyrene	ND		67	6.7	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[b]fluoranthene	ND		67	10	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[g,h,i]perylene	ND		67	6.6	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Benzo[k]fluoranthene	ND		67	13	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
1,1'-Biphenyl	ND		330	30	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Bis(2-chloroethoxy)methane	ND		330	22	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Bis(2-chloroethyl)ether	ND		67	9.0	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Bis(2-ethylhexyl) phthalate	ND		670	54	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Bromophenyl phenyl ether	ND		330	29	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Butyl benzyl phthalate	ND		330	46	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Caprolactam	ND		1700	250	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Carbazole	ND		67	6.1	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Chloroaniline	ND		330	27	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Chloro-3-methylphenol	ND		330	31	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Chloronaphthalene	ND		67	7.0	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Chlorophenol	ND		330	27	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Chlorophenyl phenyl ether	ND		330	37	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Chrysene	ND		67	7.9	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Dibenz(a,h)anthracene	ND		67	7.4	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Dibenzofuran	ND		330	33	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
3,3'-Dichlorobenzidine	ND		330	35	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4-Dichlorophenol	ND		67	6.7	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Diethyl phthalate	ND		330	36	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4-Dimethylphenol	ND		330	52	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Dimethyl phthalate	ND		330	36	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Di-n-butyl phthalate	ND		330	42	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4,6-Dinitro-2-methylphenol	ND		1700	130	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4-Dinitrophenol	ND		1700	400	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4-Dinitrotoluene	ND		330	27	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,6-Dinitrotoluene	ND		330	34	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Di-n-octyl phthalate	ND		330	35	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
1,4-Dioxane	ND		670	38	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Fluoranthene	ND		67	7.1	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Fluorene	ND		67	8.8	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Hexachlorobenzene	ND		67	7.1	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Hexachlorobutadiene	ND		67	7.5	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Hexachlorocyclopentadiene	ND		330	36	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Hexachloroethane	ND		330	24	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Indeno[1,2,3-cd]pyrene	ND		67	6.9	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Isophorone	ND		330	25	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Methylnaphthalene	ND		67	6.0	ug/Kg		09/19/16 03:00	09/19/16 22:57	1

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

Lab Sample ID: MB 180-188340/1-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		330	23	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Methylphenol, 3 & 4	ND		330	33	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Naphthalene	ND		67	5.7	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Nitroaniline	ND		1700	150	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
3-Nitroaniline	ND		1700	140	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Nitroaniline	ND		1700	140	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Nitrobenzene	ND		670	28	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2-Nitrophenol	ND		330	37	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
4-Nitrophenol	ND		1700	120	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
N-Nitrosodi-n-propylamine	ND		67	7.8	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
N-Nitrosodiphenylamine	ND		330	31	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,2'-oxybis[1-chloropropane]	ND		67	7.2	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Pentachlorophenol	ND		330	30	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Phenanthrene	ND		67	11	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Phenol	ND		67	7.9	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
Pyrene	ND		67	6.7	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
1,2,4,5-Tetrachlorobenzene	ND		330	25	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,3,4,6-Tetrachlorophenol	ND		330	21	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4,5-Trichlorophenol	ND		330	36	ug/Kg		09/19/16 03:00	09/19/16 22:57	1
2,4,6-Trichlorophenol	ND		330	50	ug/Kg		09/19/16 03:00	09/19/16 22:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 100*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
2-Fluorophenol (Surr)	*79*		*24 - 109*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
Nitrobenzene-d5 (Surr)	*73*		*31 - 105*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
Phenol-d5 (Surr)	*74*		*24 - 106*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
Terphenyl-d14 (Surr)	*72*		*34 - 104*	*09/19/16 03:00*	*09/19/16 22:57*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*21 - 114*	*09/19/16 03:00*	*09/19/16 22:57*	*1*

Lab Sample ID: LCS 180-188340/2-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6670	5230		ug/Kg		78	40 - 100
Acenaphthylene	6670	5260		ug/Kg		79	44 - 100
Acetophenone	6670	4630		ug/Kg		69	33 - 100
Anthracene	6670	5140		ug/Kg		77	45 - 100
Atrazine	6670	7950		ug/Kg		119	17 - 123
Benzaldehyde	6670	2150		ug/Kg		32	10 - 107
Benzo[a]anthracene	6670	5220		ug/Kg		78	45 - 100
Benzo[a]pyrene	6670	5120		ug/Kg		77	43 - 102
Benzo[b]fluoranthene	6670	4410		ug/Kg		66	40 - 100
Benzo[g,h,i]perylene	6670	6080		ug/Kg		91	41 - 110
Benzo[k]fluoranthene	6670	4820		ug/Kg		72	41 - 100
1,1'-Biphenyl	6670	5470		ug/Kg		82	41 - 100
Bis(2-chloroethoxy)methane	6670	5440		ug/Kg		82	41 - 100
Bis(2-chloroethyl)ether	6670	5390		ug/Kg		81	39 - 100

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

Lab Sample ID: LCS 180-188340/2-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	6670	5320		ug/Kg		80	46 - 107
4-Bromophenyl phenyl ether	6670	5320		ug/Kg		80	46 - 101
Butyl benzyl phthalate	6670	5260		ug/Kg		79	45 - 108
Caprolactam	6670	4980		ug/Kg		75	40 - 114
Carbazole	6670	4970		ug/Kg		75	42 - 103
4-Chloroaniline	6670	5080		ug/Kg		76	42 - 100
4-Chloro-3-methylphenol	6670	5100		ug/Kg		77	39 - 109
2-Chloronaphthalene	6670	5430		ug/Kg		81	42 - 100
2-Chlorophenol	6670	5050		ug/Kg		76	35 - 105
4-Chlorophenyl phenyl ether	6670	5030		ug/Kg		75	46 - 100
Chrysene	6670	5390		ug/Kg		81	45 - 100
Dibenz(a,h)anthracene	6670	6070		ug/Kg		91	42 - 110
Dibenzofuran	6670	5250		ug/Kg		79	44 - 100
3,3'-Dichlorobenzidine	6670	5250		ug/Kg		79	39 - 100
2,4-Dichlorophenol	6670	5130		ug/Kg		77	39 - 106
Diethyl phthalate	6670	4960		ug/Kg		74	46 - 102
2,4-Dimethylphenol	6670	5080		ug/Kg		76	36 - 107
Dimethyl phthalate	6670	5170		ug/Kg		78	47 - 102
Di-n-butyl phthalate	6670	5210		ug/Kg		78	46 - 107
4,6-Dinitro-2-methylphenol	13300	10300		ug/Kg		77	43 - 107
2,4-Dinitrophenol	13300	9320		ug/Kg		70	33 - 106
2,4-Dinitrotoluene	6670	5320		ug/Kg		80	46 - 112
2,6-Dinitrotoluene	6670	5410		ug/Kg		81	48 - 104
Di-n-octyl phthalate	6670	4700		ug/Kg		70	41 - 105
1,4-Dioxane	6670	6120		ug/Kg		92	13 - 122
Fluoranthene	6670	4980		ug/Kg		75	43 - 106
Fluorene	6670	5160		ug/Kg		77	42 - 100
Hexachlorobenzene	6670	5560		ug/Kg		83	46 - 100
Hexachlorobutadiene	6670	5030		ug/Kg		75	42 - 102
Hexachlorocyclopentadiene	6670	5720		ug/Kg		86	35 - 110
Hexachloroethane	6670	5020		ug/Kg		75	38 - 100
Indeno[1,2,3-cd]pyrene	6670	5960		ug/Kg		89	41 - 110
Isophorone	6670	5260		ug/Kg		79	40 - 104
2-Methylnaphthalene	6670	5160		ug/Kg		77	42 - 100
2-Methylphenol	6670	5090		ug/Kg		76	34 - 106
Methylphenol, 3 & 4	6670	5270		ug/Kg		79	35 - 106
Naphthalene	6670	5230		ug/Kg		78	40 - 100
2-Nitroaniline	6670	5740		ug/Kg		86	40 - 114
3-Nitroaniline	6670	5290		ug/Kg		79	43 - 109
4-Nitroaniline	6670	5240		ug/Kg		79	37 - 115
Nitrobenzene	6670	5710		ug/Kg		86	38 - 104
2-Nitrophenol	6670	5560		ug/Kg		83	43 - 109
4-Nitrophenol	13300	11300		ug/Kg		85	22 - 140
N-Nitrosodi-n-propylamine	6670	5700		ug/Kg		86	39 - 103
N-Nitrosodiphenylamine	6670	5260		ug/Kg		79	43 - 100
2,2'-oxybis[1-chloropropane]	6670	7450	*	ug/Kg		112	27 - 104
Pentachlorophenol	13300	10600		ug/Kg		80	26 - 115
Phenanthrene	6670	5150		ug/Kg		77	43 - 100

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

Lab Sample ID: LCS 180-188340/2-A
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	6670	5580		ug/Kg		84	30 - 105
Pyrene	6670	4890		ug/Kg		73	42 - 100
1,2,4,5-Tetrachlorobenzene	6670	5190		ug/Kg		78	41 - 100
2,3,4,6-Tetrachlorophenol	6670	4890		ug/Kg		73	41 - 107
2,4,5-Trichlorophenol	6670	4990		ug/Kg		75	44 - 103
2,4,6-Trichlorophenol	6670	5280		ug/Kg		79	44 - 107

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 100*
2-Fluorophenol (Surr)	*86*		*24 - 109*
Nitrobenzene-d5 (Surr)	*85*		*31 - 105*
Phenol-d5 (Surr)	*82*		*24 - 106*
Terphenyl-d14 (Surr)	*79*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*96*		*21 - 114*

Lab Sample ID: 180-58782-10 MS
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: STI-B45-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	28	J	7190	5430		ug/Kg	☼	75	40 - 100
Acenaphthylene	490		7190	5880		ug/Kg	☼	75	44 - 100
Acetophenone	ND		7190	4910		ug/Kg	☼	68	33 - 100
Anthracene	290		7190	5740		ug/Kg	☼	76	45 - 100
Atrazine	ND		7190	8710		ug/Kg	☼	121	17 - 123
Benzaldehyde	ND		7190	2520		ug/Kg	☼	35	10 - 107
Benzo[a]anthracene	1000		7190	6450		ug/Kg	☼	76	45 - 100
Benzo[a]pyrene	1200		7190	6710		ug/Kg	☼	77	43 - 102
Benzo[b]fluoranthene	1400		7190	6180		ug/Kg	☼	67	40 - 100
Benzo[g,h,i]perylene	1400		7190	8660		ug/Kg	☼	101	41 - 110
Benzo[k]fluoranthene	530		7190	5740		ug/Kg	☼	72	41 - 100
1,1'-Biphenyl	ND		7190	5680		ug/Kg	☼	79	41 - 100
Bis(2-chloroethoxy)methane	ND		7190	5720		ug/Kg	☼	80	41 - 100
Bis(2-chloroethyl)ether	ND		7190	5740		ug/Kg	☼	80	39 - 100
Bis(2-ethylhexyl) phthalate	ND		7190	5940		ug/Kg	☼	83	46 - 107
4-Bromophenyl phenyl ether	ND		7190	5630		ug/Kg	☼	78	46 - 101
Butyl benzyl phthalate	ND		7190	5750		ug/Kg	☼	80	45 - 108
Caprolactam	ND		7190	4700		ug/Kg	☼	65	40 - 114
Carbazole	40	J	7190	5360		ug/Kg	☼	74	42 - 103
4-Chloroaniline	ND		7190	4890		ug/Kg	☼	68	42 - 100
4-Chloro-3-methylphenol	ND		7190	4650		ug/Kg	☼	65	39 - 109
2-Chloronaphthalene	ND		7190	5680		ug/Kg	☼	79	42 - 100
2-Chlorophenol	ND		7190	5190		ug/Kg	☼	72	35 - 105
4-Chlorophenyl phenyl ether	ND		7190	5250		ug/Kg	☼	73	46 - 100
Chrysene	1300		7190	6820		ug/Kg	☼	77	45 - 100
Dibenz(a,h)anthracene	330		7190	7380		ug/Kg	☼	98	42 - 110
Dibenzofuran	ND		7190	5570		ug/Kg	☼	77	44 - 100
3,3'-Dichlorobenzidine	ND		7190	3110		ug/Kg	☼	43	39 - 100

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

Lab Sample ID: 180-58782-10 MS
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: STI-B45-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	ND		7190	4940		ug/Kg	☼	69	39 - 106
Diethyl phthalate	ND		7190	5330		ug/Kg	☼	74	46 - 102
2,4-Dimethylphenol	ND		7190	3700		ug/Kg	☼	51	36 - 107
Dimethyl phthalate	ND		7190	5670		ug/Kg	☼	79	47 - 102
Di-n-butyl phthalate	ND		7190	5690		ug/Kg	☼	79	46 - 107
4,6-Dinitro-2-methylphenol	ND		14400	10700		ug/Kg	☼	75	43 - 107
2,4-Dinitrophenol	ND		14400	7160		ug/Kg	☼	50	33 - 106
2,4-Dinitrotoluene	ND		7190	5720		ug/Kg	☼	79	46 - 112
2,6-Dinitrotoluene	ND		7190	5770		ug/Kg	☼	80	48 - 104
Di-n-octyl phthalate	ND		7190	5040		ug/Kg	☼	70	41 - 105
1,4-Dioxane	ND		7190	6070		ug/Kg	☼	84	13 - 122
Fluoranthene	1500		7190	6230		ug/Kg	☼	66	43 - 106
Fluorene	44	J	7190	5380		ug/Kg	☼	74	42 - 100
Hexachlorobenzene	ND		7190	5640		ug/Kg	☼	78	46 - 100
Hexachlorobutadiene	ND		7190	5270		ug/Kg	☼	73	42 - 102
Hexachlorocyclopentadiene	ND		7190	5570		ug/Kg	☼	77	35 - 110
Hexachloroethane	ND		7190	5310		ug/Kg	☼	74	38 - 100
Indeno[1,2,3-cd]pyrene	1000		7190	8000		ug/Kg	☼	97	41 - 110
Isophorone	ND		7190	5510		ug/Kg	☼	77	40 - 104
2-Methylnaphthalene	45	J	7190	5310		ug/Kg	☼	73	42 - 100
2-Methylphenol	ND		7190	5030		ug/Kg	☼	70	34 - 106
Methylphenol, 3 & 4	ND		7190	4830		ug/Kg	☼	67	35 - 106
Naphthalene	57	J	7190	5500		ug/Kg	☼	76	40 - 100
2-Nitroaniline	ND		7190	6150		ug/Kg	☼	86	40 - 114
3-Nitroaniline	ND		7190	5240		ug/Kg	☼	73	43 - 109
4-Nitroaniline	ND		7190	4990		ug/Kg	☼	69	37 - 115
Nitrobenzene	ND		7190	5980		ug/Kg	☼	83	38 - 104
2-Nitrophenol	ND		7190	5720		ug/Kg	☼	79	43 - 109
4-Nitrophenol	ND		14400	10100		ug/Kg	☼	70	22 - 140
N-Nitrosodi-n-propylamine	ND		7190	5980		ug/Kg	☼	83	39 - 103
N-Nitrosodiphenylamine	ND		7190	5450		ug/Kg	☼	76	43 - 100
2,2'-oxybis[1-chloropropane]	ND	* F1	7190	7860	F1	ug/Kg	☼	109	27 - 104
Pentachlorophenol	ND		14400	9640		ug/Kg	☼	67	26 - 115
Phenanthrene	740		7190	5870		ug/Kg	☼	71	43 - 100
Phenol	ND		7190	5560		ug/Kg	☼	77	30 - 105
Pyrene	1500		7190	6360		ug/Kg	☼	67	42 - 100
1,2,4,5-Tetrachlorobenzene	ND		7190	5460		ug/Kg	☼	76	41 - 100
2,3,4,6-Tetrachlorophenol	ND		7190	4900		ug/Kg	☼	68	41 - 107
2,4,5-Trichlorophenol	ND		7190	4860		ug/Kg	☼	68	44 - 103
2,4,6-Trichlorophenol	ND		7190	5320		ug/Kg	☼	74	44 - 107

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*34 - 100*
2-Fluorophenol (Surr)	*75*		*24 - 109*
Nitrobenzene-d5 (Surr)	*82*		*31 - 105*
Phenol-d5 (Surr)	*75*		*24 - 106*
Terphenyl-d14 (Surr)	*77*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*94*		*21 - 114*

Lab Sample ID: 180-58782-10 MSD
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: STI-B45-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188340

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	28	J	7100	5300		ug/Kg	☼	74	40 - 100	3	25
Acenaphthylene	490		7100	5660		ug/Kg	☼	73	44 - 100	4	23
Acetophenone	ND		7100	4690		ug/Kg	☼	66	33 - 100	5	26
Anthracene	290		7100	5590		ug/Kg	☼	75	45 - 100	3	26
Atrazine	ND		7100	8560		ug/Kg	☼	121	17 - 123	2	28
Benzaldehyde	ND		7100	2210		ug/Kg	☼	31	10 - 107	13	27
Benzo[a]anthracene	1000		7100	6230		ug/Kg	☼	74	45 - 100	4	20
Benzo[a]pyrene	1200		7100	6500		ug/Kg	☼	75	43 - 102	3	23
Benzo[b]fluoranthene	1400		7100	5650		ug/Kg	☼	60	40 - 100	9	24
Benzo[g,h,i]perylene	1400		7100	8410		ug/Kg	☼	99	41 - 110	3	22
Benzo[k]fluoranthene	530		7100	5500		ug/Kg	☼	70	41 - 100	4	20
1,1'-Biphenyl	ND		7100	5470		ug/Kg	☼	77	41 - 100	4	26
Bis(2-chloroethoxy)methane	ND		7100	5640		ug/Kg	☼	79	41 - 100	1	33
Bis(2-chloroethyl)ether	ND		7100	5500		ug/Kg	☼	78	39 - 100	4	25
Bis(2-ethylhexyl) phthalate	ND		7100	5730		ug/Kg	☼	81	46 - 107	4	20
4-Bromophenyl phenyl ether	ND		7100	5610		ug/Kg	☼	79	46 - 101	0	27
Butyl benzyl phthalate	ND		7100	5770		ug/Kg	☼	81	45 - 108	0	20
Caprolactam	ND		7100	4480		ug/Kg	☼	63	40 - 114	5	29
Carbazole	40	J	7100	5410		ug/Kg	☼	76	42 - 103	1	25
4-Chloroaniline	ND		7100	4760		ug/Kg	☼	67	42 - 100	3	30
4-Chloro-3-methylphenol	ND		7100	5100		ug/Kg	☼	72	39 - 109	9	31
2-Chloronaphthalene	ND		7100	5400		ug/Kg	☼	76	42 - 100	5	27
2-Chlorophenol	ND		7100	4970		ug/Kg	☼	70	35 - 105	4	23
4-Chlorophenyl phenyl ether	ND		7100	4990		ug/Kg	☼	70	46 - 100	5	24
Chrysene	1300		7100	6530		ug/Kg	☼	74	45 - 100	4	20
Dibenz(a,h)anthracene	330		7100	7250		ug/Kg	☼	97	42 - 110	2	27
Dibenzofuran	ND		7100	5300		ug/Kg	☼	75	44 - 100	5	24
3,3'-Dichlorobenzidine	ND		7100	3410		ug/Kg	☼	48	39 - 100	9	22
2,4-Dichlorophenol	ND		7100	4900		ug/Kg	☼	69	39 - 106	1	28
Diethyl phthalate	ND		7100	5200		ug/Kg	☼	73	46 - 102	3	24
2,4-Dimethylphenol	ND		7100	3810		ug/Kg	☼	54	36 - 107	3	29
Dimethyl phthalate	ND		7100	5430		ug/Kg	☼	77	47 - 102	4	26
Di-n-butyl phthalate	ND		7100	5620		ug/Kg	☼	79	46 - 107	1	25
4,6-Dinitro-2-methylphenol	ND		14200	10800		ug/Kg	☼	76	43 - 107	1	20
2,4-Dinitrophenol	ND		14200	7160		ug/Kg	☼	50	33 - 106	0	21
2,4-Dinitrotoluene	ND		7100	5470		ug/Kg	☼	77	46 - 112	4	24
2,6-Dinitrotoluene	ND		7100	5610		ug/Kg	☼	79	48 - 104	3	23
Di-n-octyl phthalate	ND		7100	4930		ug/Kg	☼	69	41 - 105	2	25
1,4-Dioxane	ND		7100	5930		ug/Kg	☼	84	13 - 122	2	20
Fluoranthene	1500		7100	6110		ug/Kg	☼	65	43 - 106	2	26
Fluorene	44	J	7100	5280		ug/Kg	☼	74	42 - 100	2	26
Hexachlorobenzene	ND		7100	5820		ug/Kg	☼	82	46 - 100	3	25
Hexachlorobutadiene	ND		7100	5220		ug/Kg	☼	74	42 - 102	1	28
Hexachlorocyclopentadiene	ND		7100	5620		ug/Kg	☼	79	35 - 110	1	30
Hexachloroethane	ND		7100	5130		ug/Kg	☼	72	38 - 100	3	26
Indeno[1,2,3-cd]pyrene	1000		7100	7760		ug/Kg	☼	95	41 - 110	3	25
Isophorone	ND		7100	5430		ug/Kg	☼	76	40 - 104	1	30
2-Methylnaphthalene	45	J	7100	5250		ug/Kg	☼	73	42 - 100	1	29
2-Methylphenol	ND		7100	4720		ug/Kg	☼	67	34 - 106	6	29
Methylphenol, 3 & 4	ND		7100	4760		ug/Kg	☼	67	35 - 106	1	27

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

Lab Sample ID: 180-58782-10 MSD
Matrix: Solid
Analysis Batch: 188457

Client Sample ID: STI-B45-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188340

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	57	J	7100	5340		ug/Kg	☼	74	40 - 100	3	27
2-Nitroaniline	ND		7100	5920		ug/Kg	☼	83	40 - 114	4	27
3-Nitroaniline	ND		7100	5030		ug/Kg	☼	71	43 - 109	4	29
4-Nitroaniline	ND		7100	4810		ug/Kg	☼	68	37 - 115	4	20
Nitrobenzene	ND		7100	5730		ug/Kg	☼	81	38 - 104	4	26
2-Nitrophenol	ND		7100	5690		ug/Kg	☼	80	43 - 109	0	29
4-Nitrophenol	ND		14200	10700		ug/Kg	☼	75	22 - 140	5	24
N-Nitrosodi-n-propylamine	ND		7100	5630		ug/Kg	☼	79	39 - 103	6	28
N-Nitrosodiphenylamine	ND		7100	5300		ug/Kg	☼	75	43 - 100	3	25
2,2'-oxybis[1-chloropropane]	ND	* F1	7100	7540	F1	ug/Kg	☼	106	27 - 104	4	27
Pentachlorophenol	ND		14200	9770		ug/Kg	☼	69	26 - 115	1	29
Phenanthrene	740		7100	5750		ug/Kg	☼	71	43 - 100	2	22
Phenol	ND		7100	5400		ug/Kg	☼	76	30 - 105	3	24
Pyrene	1500		7100	6170		ug/Kg	☼	65	42 - 100	3	20
1,2,4,5-Tetrachlorobenzene	ND		7100	5190		ug/Kg	☼	73	41 - 100	5	29
2,3,4,6-Tetrachlorophenol	ND		7100	4900		ug/Kg	☼	69	41 - 107	0	25
2,4,5-Trichlorophenol	ND		7100	4900		ug/Kg	☼	69	44 - 103	1	27
2,4,6-Trichlorophenol	ND		7100	5280		ug/Kg	☼	74	44 - 107	1	29

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*34 - 100*
2-Fluorophenol (Surr)	*74*		*24 - 109*
Nitrobenzene-d5 (Surr)	*80*		*31 - 105*
Phenol-d5 (Surr)	*73*		*24 - 106*
Terphenyl-d14 (Surr)	*76*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*92*		*21 - 114*

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

Lab Sample ID: MB 180-188772/1-A
Matrix: Solid
Analysis Batch: 188944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	7.6	ug/Kg		09/22/16 04:56	09/23/16 18:28	1
PCB-1221	ND		17	12	ug/Kg		09/22/16 04:56	09/23/16 18:28	1
PCB-1232	ND		17	4.2	ug/Kg		09/22/16 04:56	09/23/16 18:28	1
PCB-1242	ND		17	6.2	ug/Kg		09/22/16 04:56	09/23/16 18:28	1
PCB-1248	4.35	J	17	3.9	ug/Kg		09/22/16 04:56	09/23/16 18:28	1
PCB-1254	ND		17	6.2	ug/Kg		09/22/16 04:56	09/23/16 18:28	1
PCB-1260	ND		17	5.7	ug/Kg		09/22/16 04:56	09/23/16 18:28	1
PCB-1262	ND		17	5.2	ug/Kg		09/22/16 04:56	09/23/16 18:28	1
PCB-1268	ND		17	3.1	ug/Kg		09/22/16 04:56	09/23/16 18:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*09/22/16 04:56*	*09/23/16 18:28*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*09/22/16 04:56*	*09/23/16 18:28*	*1*

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

Lab Sample ID: MB 180-188772/1-A
Matrix: Solid
Analysis Batch: 188944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188772

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	88		27 - 138	09/22/16 04:56	09/23/16 18:28	1
Tetrachloro-m-xylene (Surr)	89		27 - 138	09/22/16 04:56	09/23/16 18:28	1

Lab Sample ID: LCS 180-188772/2-A
Matrix: Solid
Analysis Batch: 188944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1330	1110		ug/Kg		83	52 - 126
PCB-1260	1330	1070		ug/Kg		80	50 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	81		23 - 150
DCB Decachlorobiphenyl (Surr)	86		23 - 150
Tetrachloro-m-xylene (Surr)	102		27 - 138
Tetrachloro-m-xylene (Surr)	94		27 - 138

Lab Sample ID: 180-58782-2 MS
Matrix: Solid
Analysis Batch: 188944

Client Sample ID: STI-B34-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1380	834		ug/Kg	☼	60	52 - 126
PCB-1260	6.8	J	1380	793		ug/Kg	☼	57	50 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	59		23 - 150
DCB Decachlorobiphenyl (Surr)	62		23 - 150
Tetrachloro-m-xylene (Surr)	74		27 - 138
Tetrachloro-m-xylene (Surr)	72		27 - 138

Lab Sample ID: 180-58782-2 MSD
Matrix: Solid
Analysis Batch: 188944

Client Sample ID: STI-B34-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 188772

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1390	868		ug/Kg	☼	62	52 - 126	4	20
PCB-1260	6.8	J	1390	854		ug/Kg	☼	61	50 - 130	7	21

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	61		23 - 150
DCB Decachlorobiphenyl (Surr)	63		23 - 150
Tetrachloro-m-xylene (Surr)	70		27 - 138
Tetrachloro-m-xylene (Surr)	68		27 - 138

Method: 2540G - SM 2540G

Lab Sample ID: 180-58782-2 DU
Matrix: Solid
Analysis Batch: 188824

Client Sample ID: STI-B34-SUB-0.17-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	4.8			4.7		%				3	20
Percent Solids	95.2			95.3		%				0.2	20

Lab Sample ID: 180-58782-10 DU
Matrix: Solid
Analysis Batch: 188824

Client Sample ID: STI-B45-SUB-0.17-2
Prep Type: Total/NA

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		%				0.1	20

GC/MS Semi VOA

Prep Batch: 188340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58782-9	STI-B45-SS	Total/NA	Solid	3541	
180-58782-10	STI-B45-SUB-0.17-2	Total/NA	Solid	3541	
MB 180-188340/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-188340/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-58782-10 MS	STI-B45-SUB-0.17-2	Total/NA	Solid	3541	
180-58782-10 MSD	STI-B45-SUB-0.17-2	Total/NA	Solid	3541	

Analysis Batch: 188457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58782-9	STI-B45-SS	Total/NA	Solid	8270D	188340
180-58782-10	STI-B45-SUB-0.17-2	Total/NA	Solid	8270D	188340
MB 180-188340/1-A	Method Blank	Total/NA	Solid	8270D	188340
LCS 180-188340/2-A	Lab Control Sample	Total/NA	Solid	8270D	188340
180-58782-10 MS	STI-B45-SUB-0.17-2	Total/NA	Solid	8270D	188340
180-58782-10 MSD	STI-B45-SUB-0.17-2	Total/NA	Solid	8270D	188340

GC Semi VOA

Prep Batch: 188772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58782-1	STI-B34-SS	Total/NA	Solid	3541	
180-58782-2	STI-B34-SUB-0.17-2	Total/NA	Solid	3541	
180-58782-3	STI-B35-SS	Total/NA	Solid	3541	
180-58782-4	STI-B35-SUB-0.17-2	Total/NA	Solid	3541	
180-58782-5	STI-B36-SS	Total/NA	Solid	3541	
180-58782-6	STI-B36-SUB-0.17-2	Total/NA	Solid	3541	
180-58782-7	STI-B37-SS	Total/NA	Solid	3541	
180-58782-8	STI-B37-SUB-0.17-2	Total/NA	Solid	3541	
180-58782-11	STI-FD-3	Total/NA	Solid	3541	
MB 180-188772/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-188772/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-58782-2 MS	STI-B34-SUB-0.17-2	Total/NA	Solid	3541	
180-58782-2 MSD	STI-B34-SUB-0.17-2	Total/NA	Solid	3541	

Cleanup Batch: 188939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58782-1	STI-B34-SS	Total/NA	Solid	3665A	188772
180-58782-2	STI-B34-SUB-0.17-2	Total/NA	Solid	3665A	188772
180-58782-3	STI-B35-SS	Total/NA	Solid	3665A	188772
180-58782-4	STI-B35-SUB-0.17-2	Total/NA	Solid	3665A	188772
180-58782-5	STI-B36-SS	Total/NA	Solid	3665A	188772
180-58782-6	STI-B36-SUB-0.17-2	Total/NA	Solid	3665A	188772
180-58782-7	STI-B37-SS	Total/NA	Solid	3665A	188772
180-58782-8	STI-B37-SUB-0.17-2	Total/NA	Solid	3665A	188772
180-58782-11	STI-FD-3	Total/NA	Solid	3665A	188772
180-58782-2 MS	STI-B34-SUB-0.17-2	Total/NA	Solid	3665A	188772
180-58782-2 MSD	STI-B34-SUB-0.17-2	Total/NA	Solid	3665A	188772

GC Semi VOA (Continued)

Cleanup Batch: 188940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58782-1	STI-B34-SS	Total/NA	Solid	3660B	188939
180-58782-2	STI-B34-SUB-0.17-2	Total/NA	Solid	3660B	188939
180-58782-3	STI-B35-SS	Total/NA	Solid	3660B	188939
180-58782-4	STI-B35-SUB-0.17-2	Total/NA	Solid	3660B	188939
180-58782-5	STI-B36-SS	Total/NA	Solid	3660B	188939
180-58782-6	STI-B36-SUB-0.17-2	Total/NA	Solid	3660B	188939
180-58782-7	STI-B37-SS	Total/NA	Solid	3660B	188939
180-58782-8	STI-B37-SUB-0.17-2	Total/NA	Solid	3660B	188939
180-58782-11	STI-FD-3	Total/NA	Solid	3660B	188939
180-58782-2 MS	STI-B34-SUB-0.17-2	Total/NA	Solid	3660B	188939
180-58782-2 MSD	STI-B34-SUB-0.17-2	Total/NA	Solid	3660B	188939

Analysis Batch: 188944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58782-1	STI-B34-SS	Total/NA	Solid	8082A	188940
180-58782-2	STI-B34-SUB-0.17-2	Total/NA	Solid	8082A	188940
180-58782-3	STI-B35-SS	Total/NA	Solid	8082A	188940
180-58782-4	STI-B35-SUB-0.17-2	Total/NA	Solid	8082A	188940
180-58782-5	STI-B36-SS	Total/NA	Solid	8082A	188940
180-58782-6	STI-B36-SUB-0.17-2	Total/NA	Solid	8082A	188940
180-58782-8	STI-B37-SUB-0.17-2	Total/NA	Solid	8082A	188940
180-58782-11	STI-FD-3	Total/NA	Solid	8082A	188940
MB 180-188772/1-A	Method Blank	Total/NA	Solid	8082A	188772
LCS 180-188772/2-A	Lab Control Sample	Total/NA	Solid	8082A	188772
180-58782-2 MS	STI-B34-SUB-0.17-2	Total/NA	Solid	8082A	188940
180-58782-2 MSD	STI-B34-SUB-0.17-2	Total/NA	Solid	8082A	188940

Analysis Batch: 189146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58782-7	STI-B37-SS	Total/NA	Solid	8082A	188940

General Chemistry

Analysis Batch: 188824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58782-1	STI-B34-SS	Total/NA	Solid	2540G	
180-58782-2	STI-B34-SUB-0.17-2	Total/NA	Solid	2540G	
180-58782-3	STI-B35-SS	Total/NA	Solid	2540G	
180-58782-4	STI-B35-SUB-0.17-2	Total/NA	Solid	2540G	
180-58782-5	STI-B36-SS	Total/NA	Solid	2540G	
180-58782-6	STI-B36-SUB-0.17-2	Total/NA	Solid	2540G	
180-58782-7	STI-B37-SS	Total/NA	Solid	2540G	
180-58782-8	STI-B37-SUB-0.17-2	Total/NA	Solid	2540G	
180-58782-9	STI-B45-SS	Total/NA	Solid	2540G	
180-58782-10	STI-B45-SUB-0.17-2	Total/NA	Solid	2540G	
180-58782-11	STI-FD-3	Total/NA	Solid	2540G	
180-58782-2 DU	STI-B34-SUB-0.17-2	Total/NA	Solid	2540G	
180-58782-10 DU	STI-B45-SUB-0.17-2	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: 9/16/16	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:
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below ____			
410-381-4499 FAX	☑ 2 weeks			
Project Name: Former Spent Remington Site North	☐ 1 week			
Site: Elmira	☐ 2 days			
P O # MN0832B C	☐ 1 day			

180-56782 Chain of Custody

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	PAHs - 8270D LL	Metals - 6010C	Mercury - 7471B	Sample Specific Notes:
ST1-B34-SS	9/16/16	0720	C	S	2	N	N	X				
ST1-B34-SUB-0.17-2		0800			2		Y	X				ST1-MS/MSD-2
ST1-B35-SS		0720			2		N	X				
ST1-B35-SUB-0.17-2		0810			2		N	X				
ST1-B36-SS		0715			2		N	X				
ST1-B36-SUB-0.17-2		0820			2		N	X				
ST1-B37-SS		0725			2		N	X				
ST1-B37-SUB-0.17-2		0830			2		N	X				
ST1-B45-SS		0735			2		N		X			
ST1-B45-SUB-0.17-2		0840			4		Y		X			ST1-MS/MSD-3
ST1-FD-3		X			2		N	X				

ST 9/16/16

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

	1	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:
Jay Thompson	Geosyntec	9/16/16 1600		TAP	9-17-16 9:10
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

9/30/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-58782-1

Login Number: 58782
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.	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	

Attachment 2

Data Validation Reports

Geosyntec consultants

180A Market Place Blvd.
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	14 December 2016
To:	Aron Krasnopler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level IV Data Deliverable TestAmerica Work Order Number 180-58484-1**

SITE: Former Scott Technologies

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eight solid samples, including one sample for matrix spike/matrix spike duplicate (MS/MSD) analysis and one field duplicate sample, collected September 8, 2016, as part of the Former Scott Technologies sampling event. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Organic Carbon (TOC) by EPA Method Lloyd Khan
- Standard Method 2540G - Percent Moisture/Solids

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the following exceptions. Due to no MS/MSD recoveries (0%), the nondetect results of 2,4-dinitrophenol and hexachlorocyclopentadiene in sample STI-HP1-SED-C were R qualified as rejected.

The remaining qualified data should be used within the limitations of the qualifications.

The organic data were reviewed based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, August 2014 (EPA 540-R-014-002), as well as by the pertinent methods referenced by the data package and professional and technical judgment.

The inorganic data were reviewed based on the QAPP, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, August 2014 (EPA 540-R-013-001), as well as by the pertinent methods referenced by the data package and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-58484-1	STI-HP1-SED-A
180-58484-2	STI-HP1-SED-B
180-58484-3	STI-HP1-SED-C
180-58484-3MS	STI-HP1-SED-C MS
180-58484-3MSD	STI-HP1-SED-C MSD
180-58484-4	STI-HP2-SED-A

Laboratory ID	Client ID
180-58484-5	STI-HP2-SED-B
180-58484-6	STI-HP3-SED-A
180-58484-7	STI-HP4-SED-A
180-58484-8	STI-HP4-SED-B
180-58484-9	STI-FD-1

The samples were received at the laboratory at 2.3°C, within the QAPP criteria of <6°C. No sample preservation issues were noted by the laboratory.

No collection time was listed on the chain of custody (COC) for the field duplicate sample; the laboratory assigned a collection time of 00:00.

It was noted that the sample IDs in the electronic data deliverable (EDD) included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC.

The solids data, used to report the samples on a dry weight bases, were not validated.

1.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs per EPA Methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The SVOC data reported in this package are considered to be usable for meeting project objectives, with the following exception. Due to no MS/MSD recoveries (0%), the nondetect results of 2,4-dinitrophenol and hexachlorocyclopentadiene in sample STI-HP1-SED-C were R qualified as rejected. Therefore, the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 99.7%.

The narrative noted that the continuing calibration verification (CCV) standard in analytical batch 188161 had percent differences (%Ds) that were high and outside the method specified acceptance criteria (20%D) for atrazine, benzaldehyde and hexachlorobutadiene, with high biases. Since these compounds were not detected in the associated samples, no qualifications were applied to the data, based on professional and technical judgment.

The narrative also noted that the CCV standard in analytical batch 188373 had %Ds that were high and outside the method specified acceptance criteria for bis(2-ethylhexyl) phthalate and butyl benzyl phthalate, with high biases. Since the method blank for batch 188373 was the only sample in this analytical batch, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the SVOC analysis of a solid sample are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 188143). SVOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one pair per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample STI-HP1-SED-C. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of indeno[1,2,3-cd]pyrene, benzo[g,h,i]perylene, hexachlorobutadiene and 1,2,4,5-tetrachlorobenzene were high and outside the laboratory specified acceptance criteria. Since hexachlorobutadiene and 1,2,4,5-tetrachlorobenzene were not detected in sample STI-HP1-SED-C, no qualifications were applied to the hexachlorobutadiene and 1,2,4,5-tetrachlorobenzene data. However, the concentrations of indeno[1,2,3-cd]pyrene and benzo[g,h,i]perylene were J qualified as estimated. In addition, the recoveries of pentachlorophenol, 2,4-dinitrophenol and hexachlorocyclopentadiene were low and outside the laboratory specified acceptance criteria; there were no recoveries (0%) of 2,4-dinitrophenol and hexachlorocyclopentadiene. The RPD for pentachlorophenol was high and outside the laboratory specified acceptance criteria. Therefore, due to the low recoveries, the nondetect result of pentachlorophenol in sample STI-HP1-SED-C was UJ qualified as estimated less than the MDL; due to no recoveries, the nondetect results of 2,4-dinitrophenol and hexachlorocyclopentadiene in sample STI-HP1-SED-C were R qualified as rejected.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier*	Reason Code**
STI-HP1-SED-C	2,4-Dinitrophenol	320	U,F1	320	R	4
STI-HP1-SED-C	Benzo[g,h,i]perylene	270	F1	270	J	4
STI-HP1-SED-C	Hexachloro-cyclopentadiene	29	U,F1	29	R	4
STI-HP1-SED-C	Indeno[1,2,3-cd]pyrene	210	F1	210	J	4
STI-HP1-SED-C	Pentachlorophenol	24	U,F1,F2	24	UJ	4

µg/kg-microgram per kilogram
U-not detected at or above the MDL

F1- laboratory flag indicating the MS and/or MSD was outside acceptance criteria
F2- laboratory flag indicating the MS/MSD RPD was exceeded
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogate

Acceptable surrogate recoveries were reported for the sample analyses.

1.7 Field Duplicate

One field duplicate sample was collected with the sample set, STI-FD-1. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, STI-HP2-SED-B.

1.8 Sensitivity

The sample was reported to the MDLs. Elevated nondetect results were reported due to the dilutions analyzed.

1.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

2.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

2.1 Overall Assessment

The PCB (Aroclor) data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-FD-1	PCB-1248	240	NA	240	J	13
STI-FD-1	PCB-1254	130	NA	130	J	13
STI-FD-1	PCB-1260	45	NA	45	J	13
STI-HP1-SED-A	PCB-1248	1900	NA	1900	J	13
STI-HP1-SED-A	PCB-1254	1500	NA	1500	J	13
STI-HP1-SED-A	PCB-1260	540	NA	540	J	13
STI-HP1-SED-B	PCB-1248	450	NA	450	J	13
STI-HP1-SED-B	PCB-1254	360	NA	360	J	13
STI-HP1-SED-B	PCB-1260	130	NA	130	J	13
STI-HP2-SED-A	PCB-1248	240	NA	240	J	13

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-HP2-SED-A	PCB-1254	160	NA	160	J	13
STI-HP2-SED-A	PCB-1260	55	NA	55	J	13
STI-HP2-SED-B	PCB-1248	380	NA	380	J	13
STI-HP2-SED-B	PCB-1254	240	NA	240	J	13
STI-HP2-SED-B	PCB-1260	80	NA	80	J	13
STI-HP3-SED-A	PCB-1248	860	NA	860	J	13
STI-HP3-SED-A	PCB-1254	630	NA	630	J	13
STI-HP3-SED-A	PCB-1260	230	NA	230	J	13
STI-HP4-SED-A	PCB-1248	180	NA	180	J	13
STI-HP4-SED-A	PCB-1254	81	NA	81	J	13
STI-HP4-SED-A	PCB-1260	24	NA	24	J	13
STI-HP4-SED-B	PCB-1248	670	NA	670	J	13
STI-HP4-SED-B	PCB-1254	320	NA	320	J	13
STI-HP4-SED-B	PCB-1260	98	NA	98	J	13

µg/kg-microgram per kilogram
NA-not applicable

2.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported with the data (batch 188144). PCBs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample STI-HP1-SED-C. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogate

The surrogate recoveries were within the laboratory specified acceptance criteria.

2.7 Field Duplicate

One field duplicate sample was collected with the sample set, STI-FD-1. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, STI-HP2-SED-B, with the following exceptions.

The PCB 1248 and 1254 RPDs were greater than 40% and the concentrations were greater than five times the RL. In addition, the PCB 1260 difference between the results were greater than two times the RL and the results were less than five times the RL. Therefore, the concentrations of PCB 1248, 1254 and 1260 in the field duplicate pair were J qualified as estimated.

The qualifications due to the field duplicate assessments are summarized below.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	RPD	Validation Result (µg/kg)	Validation Qualifier	Reason Code
STI-FD-1	PCB-1248	240	NA	45	240	J	7
STI-HP2-SED-B	PCB-1248	380	NA		380	J	7
STI-FD-1	PCB-1254	130	NA	59	130	J	7
STI-HP2-SED-B	PCB-1254	240	NA		240	J	7
STI-FD-1	PCB-1260	45	NA	56	45	J	7
STI-HP2-SED-B	PCB-1260	80	NA		80	J	7

µg/kg-microgram per kilogram
NA-not applicable

2.8 Sensitivity

The samples were reported to the MDLs. Elevated nondetect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

3.0 METALS

The samples were analyzed for metals per EPA Methods 3050B/6010C (Mercury evaluated separately in Section 4.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
⊗ Serial Dilution
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

3.1 Overall Assessment

The metals data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

3.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 187659). Metals were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample STI-HP1-SED-C. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of antimony, barium, copper and zinc were low and outside the laboratory specified acceptance criteria. Therefore, the nondetect result of antimony in sample STI-HP1-SED-C was UJ qualified as estimated less than the MDL and the concentrations of barium, copper and zinc were J- qualified as estimated with low biases.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
STI-HP1-SED-C	Antimony	0.56	U,F1	0.56	UJ	4
STI-HP1-SED-C	Barium	160	F1	160	J-	4
STI-HP1-SED-C	Copper	72	F1	72	J-	4
STI-HP1-SED-C	Zinc	120	F1	120	J-	4

mg/kg-milligram per kilogram
U-not detected at or above the MDL
F1- laboratory flag indicating the MS and/or MSD was outside acceptance criteria

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Serial Dilution

A serial dilution was reported, using sample STI-HP1-SED-C. The %Ds were within the method specified acceptance criteria, with the following exceptions.

The %Ds for aluminum, chromium, copper, iron, manganese and zinc were high and outside the method specified acceptance criteria. Therefore, the concentrations of aluminum, chromium, copper, iron, manganese and zinc in sample STI-HP1-SED-C were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
STI-HP1-SED-C	Aluminum	9500	NA	9500	J	8
STI-HP1-SED-C	Chromium	17	NA	17	J	8
STI-HP1-SED-C	Copper	72	F1	72	J	8
STI-HP1-SED-C	Iron	21000	NA	21000	J	8
STI-HP1-SED-C	Manganese	550	F2	550	J	8
STI-HP1-SED-C	Zinc	120	F1	120	J	8

mg/kg-milligram per kilogram
NA-not applicable
F1- laboratory flag indicating the MS and/or MSD was outside acceptance criteria
F2- laboratory flag indicating the MS/MSD RPD was exceeded

3.7 Field Duplicate

One field duplicate sample was collected with the sample set, STI-FD-1. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, STI-HP2-SED-B.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated nondetect results were reported due to the dilutions analyzed.

3.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

4.0 MERCURY

The samples were analyzed for mercury per EPA Method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

4.1 Overall Assessment

The mercury data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

4.2 Holding Times

The holding time for the mercury analysis of a solid sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 187649). Mercury was detected in the method blank at an estimated concentration greater than the MDL and less than the RL. Since the mercury concentrations in the associated samples were greater than the RL, no qualifications were applied to the data.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample STI-HP1-SED-C. The recovery and RPD results were within the laboratory specified acceptance criteria.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

4.6 Field Duplicate

One field duplicate sample was collected with the sample set, STI-FD-1. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, STI-HP2-SED-B.

4.7 Sensitivity

The sample was reported to the MDL. No elevated nondetect results were reported.

4.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

5.0 TOTAL ORGANIC CARBON

The samples were analyzed for TOC per EPA Method Lloyd Khan.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

5.1 Overall Assessment

The TOC data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

The samples are analyzed in duplicate, with the average result reported. Per the narrative, the %RPD between the two results for sample STI-HP4-SED-B exceeded 50%. The sample was reanalyzed, and the %RPD failure repeated; the laboratory indicated this was due to the non-homogenous nature of the sample. Both sets of data were reported. Based on professional and technical judgment, the higher concentration, 200,000 mg/kg, was the result considered for validation for this sample and the concentration was J qualified as estimated due to the failing RPD result and the sample non-homogeneity.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
STI-HP4-SED-B	Total Organic Carbon - Duplicates	200000	NA	200000	J	13

mg/kg-milligram per kilogram
NA-not applicable

5.2 Holding Times

The holding time for the TOC analysis of a solid sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 187780, 188104 and 188640). TOC was not detected in the method blanks above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported, using sample STI-HP1-SED-C. The recovery and RPD results were within the laboratory specified acceptance criteria.

A laboratory duplicate was also reported, using sample STI-HP1-SED-C. The RPD result was acceptable.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Field Duplicate

One field duplicate sample was collected with the sample set, STI-FD-1. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, STI-HP2-SED-B.

5.7 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

5.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs

included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	14 December 2016
To:	Aron Krasnopler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level IV Data Deliverable TestAmerica Work Order Number 180-58503-1**

SITE: Former Scott Technologies

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eight solid samples, including one sample for matrix spike/matrix spike duplicate (MS/MSD) analysis, one field duplicate sample and one equipment blank, collected September 9, 2016, as part of the Former Scott Technologies sampling event. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Metals by EPA Methods 3005A/6010C and 3050B/6010C
- Mercury by EPA Methods 7470A and 7471B
- Hexavalent Chromium by EPA Methods 3060A/7196A and 7196A
- Standard Method 2540G - Percent Moisture/Solids

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. The qualified data should be used within the limitations of the qualifications.

The inorganic data were reviewed based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, August 2014

(EPA 540-R-013-001), as well as by the pertinent methods referenced by the data package and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-58503-1	STI-B47-SUB-0.17-2
180-58503-2	STI-B47-SS
180-58503-3	STI-B46-SS
180-58503-4	STI-B46-SUB-0.17-2
180-58503-5	STI-B48-SS

Laboratory ID	Client ID
180-58503-6	STI-B48-SUB-0.17-2
180-58503-6MS	STI-B48-SUB-0.17-2 MS
180-58503-6MSD	STI-B48-SUB-0.17-2 MSD
180-58503-7	STI-FD-6
180-58503-8	STI-EB-1

The samples were received at the laboratory at 3.5^{o}C, within the QAPP criteria of <6^{o}C. No sample preservation issues were noted by the laboratory.

No collection time was listed on the chain of custody (COC) for the field duplicate sample. The laboratory assigned a collection time of 00:00.

It was noted that the sample IDs in the electronic data deliverable (EDD) included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC.

The solids data, used to report the samples on a dry weight bases, were not validated.

1.0 METALS

The samples were analyzed for metals per EPA Methods 3005A/6010C and 3050B/6010C (Mercury evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Serial Dilution
✓ Equipment Blank
✓ Field Duplicate

✓ Sensitivity
⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The metals data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

The narrative noted that the continuing calibration verification (CCV) standards in analytical batch 187985 had high selenium recoveries, outside the method specified acceptance criteria. Therefore, the concentrations of selenium in the associated samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
STI-B46-SS	Selenium	0.56	J,^	0.56	J	9
STI-B47-SS	Selenium	0.69	J,^	0.69	J	9
STI-B47-SUB-0.17-2	Selenium	0.63	J,^	0.63	J	9
STI-B48-SUB-0.17-2	Selenium	0.86	J,^	0.86	J	9

mg/kg-milligram per kilogram
J- the result is less than the reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value
^- laboratory flag indicating that the instrument related QC is outside acceptance limits
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the metals analyses of solid and water samples are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 187648 and 187615). Metals were not detected in the method blank above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported, using sample STI-B48-SUB-0.17-2. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of antimony were low and the recoveries of lead and zinc were high, outside the laboratory specified acceptance criteria. Therefore, the nondetect result of antimony in sample STI-B48-SUB-0.17-2 was UJ qualified as estimated less than the MDL and the concentrations of lead and zinc were J+ qualified as estimated with high biases.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
STI-B48-SUB-0.17-2	Antimony	0.35	U,F1	0.35	UJ	4
STI-B48-SUB-0.17-2	Lead	130	F1	130	J+	4
STI-B48-SUB-0.17-2	Zinc	120	F1	120	J+	4

mg/kg-milligram per kilogram
U-not detected at or above the MDL
F1- laboratory flag indicating the MS and/or MSD was outside acceptance criteria

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Serial Dilution

A serial dilution was not reported.

1.7 Equipment Blank

One equipment blank was collected with the sample set, STI-EB-1. Metals were not detected in the equipment blank above the MDLs.

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, STI-FD-6. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than

five times the RL] was demonstrated between the field duplicate and the original sample, STI-B46-SUB-0.17-2.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

1.10 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury per EPA Methods 7470A and 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

2.2 Holding Times

The holding times for the mercury analyses of solid and water samples are 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 187601 and 187639). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported, using sample STI-B48-SUB-0.17-2. The recovery results were low and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample STI-B48-SUB-0.17-2 was J- qualified as estimated with a low bias.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
STI-B48-SUB-0.17-2	Mercury	0.29	F1	0.29	J-	4

mg/kg-milligram per kilogram
F1- laboratory flag indicating the MS and/or MSD was outside acceptance criteria

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, STI-EB-1. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Duplicate

One field duplicate sample was collected with the sample set, STI-FD-6. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than

five times the RL] was demonstrated between the field duplicate and the original sample, STI-B46-SUB-0.17-2.

2.8 Sensitivity

The sample was reported to the MDL. No elevated nondetect results were reported.

2.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

3.0 HEXAVALENT CHROMIUM

The samples were analyzed for hexavalent chromium per EPA Methods 3060A/7196A and 7196A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

3.1 Overall Assessment

The hexavalent chromium data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

Two results were reported for sample STI-B48-SUB-0.17-2. The sample and its associated MSs were reanalyzed due to low MS recoveries. Based on professional and technical judgment, the original hexavalent chromium concentration for the sample, 0.37 mg/kg, was the result considered for validation; the sample qualification due to the failing MS is discussed in section 3.3, below.

3.2 Holding Times

The holding times for the hexavalent chromium analysis of a solid sample are 30 days from sample collection to extraction and 168 hours from extraction to analysis. The holding time for the hexavalent chromium analysis of a water sample is 24 hours from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 187557, 187946, 188537 and 188542). Hexavalent chromium was not detected in the method blanks above the MDL.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported, using sample STI-EB-1. The recovery and RPD results were within the laboratory specified acceptance criteria.

Four sample set specific MSs were reported, using sample STI-B48-SUB-0.17-2; there were two soluble MSs and two insoluble MSs. The recoveries in both of the originally analyzed MSs (soluble and insoluble) were low and outside the laboratory specified acceptance criteria; the reanalyzed insoluble MS had acceptable recovery, but the reanalyzed soluble MS recovery was low. Therefore, based on the low recoveries in the original analyses and professional and technical judgment, the concentration of hexavalent chromium in sample STI-B48-SUB-0.17-2 was Jqualified as estimated.

Two laboratory duplicates were also reported, both using sample STI-B48-SUB-0.17-2. The RPD results were acceptable.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
STI-B48-SUB-0.17-2	Hexavalent chromium	0.37	J,F1	0.37	J	4

mg/kg-milligram per kilogram

J- the result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1- laboratory flag indicating the MS and/or MSD was outside acceptance criteria

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCSs were reported for the solids samples (two for each solids batch, a soluble LCS and an insoluble LCS); one LCS was reported for the water batch. The recovery results were within the laboratory specified acceptance criteria.

3.6 Equipment Blank

One equipment blank was collected with the sample set, STI-EB-1. Hexavalent chromium was not detected in the equipment blank above the MDL.

3.7 Field Duplicate

One field duplicate sample was collected with the sample set, STI-FD-6. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, STI-B46-SUB-0.17-2.

3.8 Sensitivity

The sample was reported to the MDL. No elevated nondetect results were reported.

3.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	14 December 2016
To:	Aron Krasnopler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level IV Data Deliverable TestAmerica Work Order Number 180-58515-1**

SITE: Former Scott Technologies

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirteen solid samples and two field duplicate samples, collected September 7, 2016, as part of the Former Scott Technologies sampling event. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Semivolatile Organic Compounds SVOCs) by EPA Methods 3541/8270D
- Standard Method 2540G - Percent Moisture/Solids

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. The qualified data should be used within the limitations of the qualification.

The organic data were reviewed based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, August 2014 (EPA 540-R-014-002), as well as by the pertinent methods referenced by the data package and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-58515-1	STI-FD-4
180-58515-2	STI-FD-5
180-58515-3	STI-B38-SUB-0.17-2
180-58515-4	STI-B40-SS
180-58515-5	STI-B40-SUB-0.17-2
180-58515-6	STI-B44-SUB-0.17-2
180-58515-7	STI-B42-SS
180-58515-8	STI-B42-SUB-0.17-2

Laboratory ID	Client ID
180-58515-9	STI-B43-SS
180-58515-10	STI-B43-SUB-0.17-2
180-58515-11	STI-B41-SS
180-58515-12	STI-B41-SUB-0.17-2
180-58515-13	STI-B39-SS
180-58515-14	STI-B39-SUB-0.17-2
180-58515-15	STI-B38-SS

The samples were received at the laboratory on 9/10/16 and 9/13/16. The samples received on 9/10/16, logged in with laboratory sample IDs 180-58515-1 through -5, were within the QAPP criteria of <6°C, at 5.0°C. The rest of the samples were received on 9/13/16, at 12.4°C. Therefore, based on professional and technical judgment, the SVOC concentrations in these samples were J qualified as estimated and the nondetect results were UJ qualified as estimated less than the method detection limits (MDLs). These qualifications are discussed in section 1.1 and summarized in Attachment 3, below.

There were twelve samples received on 9/13/16 that were cancelled for analysis; the cooler containing these samples had water from melted ice in it and samples were submerged in the melted ice water.

The chain of custody (COC) forms were signed by the laboratory on 9/9/16. However, there were notes on the COC indicating which samples were received on 9/10/16 and 9/13/19.

No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.

It was noted that the sample IDs in the electronic data deliverable (EDD) included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC.

The solids data, used to report the samples on a dry weight bases, were not validated.

1.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs per EPA Methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The SVOC data reported in this package are considered to be usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

The report narrative indicated that the percent differences (%Ds) in the following continuing calibration verification (CCV) standards were outside the method criteria for the indicated compounds:

Batch	Compound	%D, bias (acceptance limits)	Validation acceptance limits
188021	Butyl benzyl phthalate	20%, high bias	25%D
188457	1,4-Dioxane	38%, high bias	40%D
	2,2-Oxybis (1-chloropropane)	43%, high bias	25%D
	2,4-Dintrophenol	34%, low bias	50%D
	4,6-Dinitro-2-methylphenol	23%, low bias	30%D
	Atrazine	67%, low bias	25%D
188762	1,4-Dioxane	47%, high bias	40%D
	2,2-Oxybis (1-chloropropane	49%, high bias	25%D
	Benzo[g,h,i]perylene,	24%, high bias	30%D
	Indeno(1,2,3-cd)perylene	21%, high bias	25%D
	Atrazine	67%, low bias	25%D

For the compounds and batches that had the CCVs within the validation criteria, no qualifications were applied to the data. 2,2-Oxybis (1-chloropropane) was not detected in the samples analyzed in batches 188457 and 188762; therefore, no qualifications were applied to the 2,2-oxybis (1-chloropropane) data. However, the nondetect result of atrazine in the associated sample analyzed in batch 188457 was UJ qualified as estimated less than the method detection limit (MDL) since the CCV %D was were outside the validation acceptance limit, with a low bias. Atrazine was not reported for the sample analyzed in batch 188762.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier*	Reason Code**
STI-B38-SS	Atrazine	340	U	340	UJ	9

µg/kg-microgram per kilogram
U-not detected at the stated MDL
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

As noted above some of the samples were received outside the QAPP criteria of <6ºC, at 12.4ºC. Therefore, based on professional and technical judgment, the SVOC concentrations in these samples were J qualified as estimated and the nondetect results were UJ qualified as estimated less than the MDLs. These qualifications are summarized in Attachment 3.

The concentrations of fluoranthene, phenanthrene and pyrene in sample STI-B38-SS were flagged with E, indicating that the concentrations exceeded the calibration ranges. The sample was reanalyzed at a 1:50 dilution; the results for these three compounds in this sample should be used from the 1:50 dilution, which were within the calibrations ranges.

1.2 Holding Times

The holding times for the SVOC analysis of a solid sample are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 187975 and 188340). SVOCs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

One sample set specific MS/MSD pair was reported, using sample STI-FD-4. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of 2,4-dinitrophenol and 3,3'-dichlorobenzidine were low and outside the laboratory specified acceptance criteria. Therefore, based on professional and technical judgment, the nondetect results of these two compounds in samples STI-FD-4 and STI-B39-SUB-0.17-2 (parent sample to the field duplicate) were UJ qualified as estimated less than the MDLs.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B39-SUB-0.17-2	2,4-Dinitrophenol	440	U	440	UJ	4
STI-B39-SUB-0.17-2	3,3'-Dichlorobenzidine	39	U	39	UJ	4
STI-FD-4	2,4-Dinitrophenol	400	U,F1	400	UJ	4
STI-FD-4	3,3'-Dichlorobenzidine	36	U,F1	36	UJ	4

µg/kg-microgram per kilogram
U-not detected at the stated MDL
F1- MS and/or MSD recovery is outside acceptance limits

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of 2,2'-oxybis[1-chloropropane] in batch 188340 was high and outside the laboratory specified acceptance criteria. Since 2,2'-oxybis[1-chloropropane] was not detected in the associated sample, no qualifications were applied to the data.

1.6 Surrogate

Acceptable surrogate recoveries were reported for the sample analyses, with the following exceptions.

The recoveries of surrogate 2,4,6-tribromophenol were low and outside the laboratory specified acceptance criteria in samples STI-B40-SS, STI-B42-SS, STI-B43-SS, STI-B39-SS and STI-B41-SUB-0.17-2. No qualifications were applied to the data in these samples since the other five surrogates had acceptable recoveries, based on professional and technical judgment.

1.7 Field Duplicate

Two field duplicate samples were collected with the sample set, STI-FD-4 and STI-FD-5. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] were demonstrated between the field duplicates and the original samples, STI-B39-SUB-0.17-2 and STI-B38-SS, respectively, with the following exceptions.

The differences between the results for the following compounds in field duplicate pair STI-B39-SUB-0.17-2/STI-FD-4 were greater than two times the RLs and the results were less than five times the RL: Benzo[b]fluoranthene, chrysene, fluoranthene, phenanthrene and pyrene. Therefore, the concentrations of these five compounds in the field duplicate pair were J qualified as estimated.

The differences between the results for the following compounds in field duplicate pair STI-B38-SS/STI-FD-5 were greater than two times the RLs and the results were less than five times the RL: Dibenz(a,h)anthracene and dibenzofuran. Therefore, the concentrations of these two compounds in the field duplicate pair were J qualified as estimated. In addition, the RPDs between the results were greater than 40% and the greater than five times the RL: 2-Methylnaphthalene, acenaphthene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, benzo[k]fluoranthene, carbazole, chrysene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene and naphthalene. Therefore, the concentrations of these thirteen compounds in the field duplicate pair were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	RPD	Validation Result (µg/kg)	Validation Qualifier	Reason Code
STI-B39-SUB-0.17-2	Benzo[b]fluoranthene	100	NA	97	100	J	7
STI-FD-4	Benzo[b]fluoranthene	290	NA		290	J	7
STI-B39-SUB-0.17-2	Chrysene	120	NA	77	120	J	7
STI-FD-4	Chrysene	270	NA		270	J	7
STI-B39-SUB-0.17-2	Fluoranthene	150	NA	87	150	J	7
STI-FD-4	Fluoranthene	380	NA		380	J	7
STI-B39-SUB-0.17-2	Phenanthrene	190	NA	91	190	J	7
STI-FD-4	Phenanthrene	510	NA		510	J	7
STI-B39-SUB-0.17-2	Pyrene	170	NA	83	170	J	7
STI-FD-4	Pyrene	410	NA		410	J	7
STI-B38-SS	2-Methylnaphthalene	23000	NA	71	23000	J	7
STI-FD-5	2-Methylnaphthalene	11000	NA		11000	J	7
STI-B38-SS	Acenaphthene	47000	NA	58	47000	J	7
STI-FD-5	Acenaphthene	26000	NA		26000	J	7
STI-B38-SS	Anthracene	82000	NA	48	82000	J	7
STI-FD-5	Anthracene	50000	NA		50000	J	7
STI-B38-SS	Benzo[a]anthracene	110000	NA	49	110000	J	7
STI-FD-5	Benzo[a]anthracene	67000	NA		67000	J	7

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	RPD	Validation Result (µg/kg)	Validation Qualifier	Reason Code
STI-B38-SS	Benzo[a]pyrene	80000	NA	50	80000	J	7
STI-FD-5	Benzo[a]pyrene	48000	NA		48000	J	7
STI-B38-SS	Benzo[g,h,i]perylene	65000	NA	92	65000	J	7
STI-FD-5	Benzo[g,h,i]perylene	24000	NA		24000	J	7
STI-B38-SS	Benzo[k]fluoranthene	37000	NA	64	37000	J	7
STI-FD-5	Benzo[k]fluoranthene	19000	NA		19000	J	7
STI-B38-SS	Carbazole	37000	NA	64	37000	J	7
STI-FD-5	Carbazole	19000	NA		19000	J	7
STI-B38-SS	Chrysene	97000	NA	55	97000	J	7
STI-FD-5	Chrysene	55000	NA		55000	J	7
STI-B38-SS	Dibenz(a,h)anthracene	18000	NA	66	18000	J	7
STI-FD-5	Dibenz(a,h)anthracene	9100	NA		9100	J	7
STI-B38-SS	Dibenzofuran	36000	NA	62	36000	J	7
STI-FD-5	Dibenzofuran	19000	NA		19000	J	7
STI-B38-SS	Fluoranthene	280000	NA	73	220000	J	7
STI-FD-5	Fluoranthene	130000	NA		130000	J	7
STI-B38-SS	Fluorene	46000	NA	56	46000	J	7
STI-FD-5	Fluorene	26000	NA		26000	J	7
STI-B38-SS	Indeno[1,2,3-cd]pyrene	60000	NA	82	60000	J	7
STI-FD-5	Indeno[1,2,3-cd]pyrene	25000	NA		25000	J	7
STI-B38-SS	Naphthalene	70000	NA	104	70000	J	7
STI-FD-5	Naphthalene	22000	NA		22000	J	7

µg/kg-microgram per kilogram
NA-not applicable

1.8 Sensitivity

The sample was reported to the MDLs. Elevated nondetect results were reported for the samples due to the dilutions analyzed.

1.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs

included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

ATTACHMENT 3

Data validation qualifications due to the temperature at laboratory receipt

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B38-SS	1,1'-Biphenyl	5700	NA	5700	J	1
STI-B38-SS	1,2,4,5-Tetrachlorobenzene	260	U	260	UJ	1
STI-B38-SS	1,4-Dioxane	400	U	400	UJ	1
STI-B38-SS	2,2'-oxybis[1-chloropropane]	75	U,*	75	UJ	1
STI-B38-SS	2,3,4,6-Tetrachlorophenol	220	U	220	UJ	1
STI-B38-SS	2,4,5-Trichlorophenol	370	U	370	UJ	1
STI-B38-SS	2,4,6-Trichlorophenol	520	U	520	UJ	1
STI-B38-SS	2,4-Dichlorophenol	70	U	70	UJ	1
STI-B38-SS	2,4-Dimethylphenol	980	J	980	J	1
STI-B38-SS	2,4-Dinitrophenol	4200	U	4200	UJ	1
STI-B38-SS	2,4-Dinitrotoluene	280	U	280	UJ	1
STI-B38-SS	2,6-Dinitrotoluene	360	U	360	UJ	1
STI-B38-SS	2-Chloronaphthalene	73	U	73	UJ	1
STI-B38-SS	2-Chlorophenol	290	U	290	UJ	1
STI-B38-SS	2-Methylnaphthalene	23000	NA	23000	J	1
STI-B38-SS	2-Methylphenol	660	J	660	J	1
STI-B38-SS	2-Nitroaniline	1600	U	1600	UJ	1
STI-B38-SS	2-Nitrophenol	390	U	390	UJ	1
STI-B38-SS	3,3'-Dichlorobenzidine	370	U	370	UJ	1
STI-B38-SS	3-Nitroaniline	1400	U	1400	UJ	1
STI-B38-SS	4,6-Dinitro-2-methylphenol	1400	U	1400	UJ	1
STI-B38-SS	4-Bromophenyl phenyl ether	300	U	300	UJ	1
STI-B38-SS	4-Chloro-3-methylphenol	320	U	320	UJ	1
STI-B38-SS	4-Chloroaniline	280	U	280	UJ	1
STI-B38-SS	4-Chlorophenyl phenyl ether	390	U	390	UJ	1
STI-B38-SS	4-Nitroaniline	1400	U	1400	UJ	1
STI-B38-SS	4-Nitrophenol	1300	U	1300	UJ	1
STI-B38-SS	Acenaphthene	47000	NA	47000	J	1
STI-B38-SS	Acenaphthylene	1700	NA	1700	J	1
STI-B38-SS	Acetophenone	290	U	290	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B38-SS	Anthracene	82000	NA	82000	J	1
STI-B38-SS	Atrazine	340	U	340	UJ	1, 9
STI-B38-SS	Benzaldehyde	520	U	520	UJ	1
STI-B38-SS	Benzo[a]anthracene	110000	NA	110000	J	1
STI-B38-SS	Benzo[a]pyrene	80000	NA	80000	J	1
STI-B38-SS	Benzo[b]fluoranthene	83000	NA	83000	J	1
STI-B38-SS	Benzo[g,h,i]perylene	65000	NA	65000	J	1
STI-B38-SS	Benzo[k]fluoranthene	37000	NA	37000	J	1
STI-B38-SS	Bis(2-chloroethoxy)methane	230	U	230	UJ	1
STI-B38-SS	Bis(2-chloroethyl)ether	94	U	94	UJ	1
STI-B38-SS	Bis(2-ethylhexyl) phthalate	560	U	560	UJ	1
STI-B38-SS	Butyl benzyl phthalate	480	U	480	UJ	1
STI-B38-SS	Caprolactam	2600	U	2600	UJ	1
STI-B38-SS	Carbazole	37000	NA	37000	J	1
STI-B38-SS	Chrysene	97000	NA	97000	J	1
STI-B38-SS	Dibenz(a,h)anthracene	18000	NA	18000	J	1
STI-B38-SS	Dibenzofuran	36000	NA	36000	J	1
STI-B38-SS	Diethyl phthalate	380	U	380	UJ	1
STI-B38-SS	Dimethyl phthalate	380	U	380	UJ	1
STI-B38-SS	Di-n-butyl phthalate	440	U	440	UJ	1
STI-B38-SS	Di-n-octyl phthalate	370	U	370	UJ	1
STI-B38-SS	Fluorene	46000	NA	46000	J	1
STI-B38-SS	Hexachlorobenzene	74	U	74	UJ	1
STI-B38-SS	Hexachlorobutadiene	78	U	78	UJ	1
STI-B38-SS	Hexachlorocyclopentadiene	380	U	380	UJ	1
STI-B38-SS	Hexachloroethane	250	U	250	UJ	1
STI-B38-SS	Indeno[1,2,3-cd]pyrene	60000	NA	60000	J	1
STI-B38-SS	Isophorone	260	U	260	UJ	1
STI-B38-SS	Methylphenol, 3 & 4	2100	J	2100	J	1
STI-B38-SS	Naphthalene	70000	NA	70000	J	1
STI-B38-SS	Nitrobenzene	290	U	290	UJ	1
STI-B38-SS	N-Nitrosodi-n-propylamine	82	U	82	UJ	1
STI-B38-SS	N-Nitrosodiphenylamine	320	U	320	UJ	1
STI-B38-SS	Pentachlorophenol	310	U	310	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B38-SS	Phenol	1000	NA	1000	J	1
STI-B38-SSDL	Fluoranthene	280000	NA	280000	J	1
STI-B38-SSDL	Phenanthrene	320000	NA	320000	J	1
STI-B38-SSDL	Pyrene	170000	NA	170000	J	1
STI-B39-SS	1,1'-Biphenyl	740	J	740	J	1
STI-B39-SS	1,2,4,5-Tetrachlorobenzene	260	U	260	UJ	1
STI-B39-SS	1,4-Dioxane	390	U	390	UJ	1
STI-B39-SS	2,2'-oxybis[1-chloropropane]	74	U	74	UJ	1
STI-B39-SS	2,3,4,6-Tetrachlorophenol	220	U	220	UJ	1
STI-B39-SS	2,4,5-Trichlorophenol	370	U	370	UJ	1
STI-B39-SS	2,4,6-Trichlorophenol	510	U	510	UJ	1
STI-B39-SS	2,4-Dichlorophenol	69	U	69	UJ	1
STI-B39-SS	2,4-Dimethylphenol	540	U	540	UJ	1
STI-B39-SS	2,4-Dinitrophenol	4100	U	4100	UJ	1
STI-B39-SS	2,4-Dinitrotoluene	280	U	280	UJ	1
STI-B39-SS	2,6-Dinitrotoluene	350	U	350	UJ	1
STI-B39-SS	2-Chloronaphthalene	72	U	72	UJ	1
STI-B39-SS	2-Chlorophenol	280	U	280	UJ	1
STI-B39-SS	2-Methylnaphthalene	3000	NA	3000	J	1
STI-B39-SS	2-Methylphenol	240	U	240	UJ	1
STI-B39-SS	2-Nitroaniline	1500	U	1500	UJ	1
STI-B39-SS	2-Nitrophenol	380	U	380	UJ	1
STI-B39-SS	3,3'-Dichlorobenzidine	360	U	360	UJ	1
STI-B39-SS	3-Nitroaniline	1400	U	1400	UJ	1
STI-B39-SS	4,6-Dinitro-2-methylphenol	1400	U	1400	UJ	1
STI-B39-SS	4-Bromophenyl phenyl ether	300	U	300	UJ	1
STI-B39-SS	4-Chloro-3-methylphenol	320	U	320	UJ	1
STI-B39-SS	4-Chloroaniline	280	U	280	UJ	1
STI-B39-SS	4-Chlorophenyl phenyl ether	380	U	380	UJ	1
STI-B39-SS	4-Nitroaniline	1400	U	1400	UJ	1
STI-B39-SS	4-Nitrophenol	1300	U	1300	UJ	1
STI-B39-SS	Acenaphthene	7700	NA	7700	J	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B39-SS	Acenaphthylene	2500	NA	2500	J	1
STI-B39-SS	Acetophenone	280	U	280	UJ	1
STI-B39-SS	Anthracene	16000	NA	16000	J	1
STI-B39-SS	Atrazine	330	U	330	UJ	1
STI-B39-SS	Benzaldehyde	520	U	520	UJ	1
STI-B39-SS	Benzo[a]anthracene	28000	NA	28000	J	1
STI-B39-SS	Benzo[a]pyrene	22000	NA	22000	J	1
STI-B39-SS	Benzo[b]fluoranthene	29000	NA	29000	J	1
STI-B39-SS	Benzo[g,h,i]perylene	12000	NA	12000	J	1
STI-B39-SS	Benzo[k]fluoranthene	9900	NA	9900	J	1
STI-B39-SS	Bis(2-chloroethoxy)methane	230	U	230	UJ	1
STI-B39-SS	Bis(2-chloroethyl)ether	92	U	92	UJ	1
STI-B39-SS	Bis(2-ethylhexyl) phthalate	560	U	560	UJ	1
STI-B39-SS	Butyl benzyl phthalate	470	U	470	UJ	1
STI-B39-SS	Caprolactam	2600	U	2600	UJ	1
STI-B39-SS	Carbazole	5900	NA	5900	J	1
STI-B39-SS	Chrysene	23000	NA	23000	J	1
STI-B39-SS	Dibenz(a,h)anthracene	4400	NA	4400	J	1
STI-B39-SS	Dibenzofuran	5100	NA	5100	J	1
STI-B39-SS	Diethyl phthalate	380	U	380	UJ	1
STI-B39-SS	Dimethyl phthalate	370	U	370	UJ	1
STI-B39-SS	Di-n-butyl phthalate	430	U	430	UJ	1
STI-B39-SS	Di-n-octyl phthalate	360	U	360	UJ	1
STI-B39-SS	Fluoranthene	54000	NA	54000	J	1
STI-B39-SS	Fluorene	8300	NA	8300	J	1
STI-B39-SS	Hexachlorobenzene	73	U	73	UJ	1
STI-B39-SS	Hexachlorobutadiene	77	U	77	UJ	1
STI-B39-SS	Hexachlorocyclopentadiene	370	U	370	UJ	1
STI-B39-SS	Hexachloroethane	250	U	250	UJ	1
STI-B39-SS	Indeno[1,2,3-cd]pyrene	12000	NA	12000	J	1
STI-B39-SS	Isophorone	260	U	260	UJ	1
STI-B39-SS	Methylphenol, 3 & 4	340	U	340	UJ	1
STI-B39-SS	Naphthalene	6300	NA	6300	J	1
STI-B39-SS	Nitrobenzene	290	U	290	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B39-SS	N-Nitrosodi-n-propylamine	81	U	81	UJ	1
STI-B39-SS	N-Nitrosodiphenylamine	320	U	320	UJ	1
STI-B39-SS	Pentachlorophenol	310	U	310	UJ	1
STI-B39-SS	Phenanthrene	59000	NA	59000	J	1
STI-B39-SS	Phenol	81	U	81	UJ	1
STI-B39-SS	Pyrene	49000	NA	49000	J	1
STI-B39-SUB-0.17-2	1,1'-Biphenyl	33	U	33	UJ	1
STI-B39-SUB-0.17-2	1,2,4,5-Tetrachlorobenzene	28	U	28	UJ	1
STI-B39-SUB-0.17-2	1,4-Dioxane	42	U	42	UJ	1
STI-B39-SUB-0.17-2	2,2'-oxybis[1-chloropropane]	7.9	U	7.9	UJ	1
STI-B39-SUB-0.17-2	2,3,4,6-Tetrachlorophenol	24	U	24	UJ	1
STI-B39-SUB-0.17-2	2,4,5-Trichlorophenol	39	U	39	UJ	1
STI-B39-SUB-0.17-2	2,4,6-Trichlorophenol	55	U	55	UJ	1
STI-B39-SUB-0.17-2	2,4-Dichlorophenol	7.4	U	7.4	UJ	1
STI-B39-SUB-0.17-2	2,4-Dimethylphenol	57	U	57	UJ	1
STI-B39-SUB-0.17-2	2,4-Dinitrophenol	440	U	440	UJ	1
STI-B39-SUB-0.17-2	2,4-Dinitrotoluene	30	U	30	UJ	1
STI-B39-SUB-0.17-2	2,6-Dinitrotoluene	38	U	38	UJ	1
STI-B39-SUB-0.17-2	2-Chloronaphthalene	7.6	U	7.6	UJ	1
STI-B39-SUB-0.17-2	2-Chlorophenol	30	U	30	UJ	1
STI-B39-SUB-0.17-2	2-Methylnaphthalene	94	NA	94	J	1
STI-B39-SUB-0.17-2	2-Methylphenol	26	U	26	UJ	1
STI-B39-SUB-0.17-2	2-Nitroaniline	160	U	160	UJ	1
STI-B39-SUB-0.17-2	2-Nitrophenol	40	U	40	UJ	1
STI-B39-SUB-0.17-2	3,3'-Dichlorobenzidine	39	U	39	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B39-SUB-0.17-2	3-Nitroaniline	150	U	150	UJ	1
STI-B39-SUB-0.17-2	4,6-Dinitro-2-methylphenol	150	U	150	UJ	1
STI-B39-SUB-0.17-2	4-Bromophenyl phenyl ether	32	U	32	UJ	1
STI-B39-SUB-0.17-2	4-Chloro-3-methylphenol	34	U	34	UJ	1
STI-B39-SUB-0.17-2	4-Chloroaniline	29	U	29	UJ	1
STI-B39-SUB-0.17-2	4-Chlorophenyl phenyl ether	41	U	41	UJ	1
STI-B39-SUB-0.17-2	4-Nitroaniline	150	U	150	UJ	1
STI-B39-SUB-0.17-2	4-Nitrophenol	130	U	130	UJ	1
STI-B39-SUB-0.17-2	Acenaphthene	17	J	17	J	1
STI-B39-SUB-0.17-2	Acenaphthylene	19	J	19	J	1
STI-B39-SUB-0.17-2	Acetophenone	30	U	30	UJ	1
STI-B39-SUB-0.17-2	Anthracene	47	J	47	J	1
STI-B39-SUB-0.17-2	Atrazine	36	U	36	UJ	1
STI-B39-SUB-0.17-2	Benzaldehyde	55	U	55	UJ	1
STI-B39-SUB-0.17-2	Benzo[a]anthracene	98	NA	98	J	1
STI-B39-SUB-0.17-2	Benzo[a]pyrene	73	J	73	J	1
STI-B39-SUB-0.17-2	Benzo[b]fluoranthene	100	NA	100	J	1
STI-B39-SUB-0.17-2	Benzo[g,h,i]perylene	59	J	59	J	1
STI-B39-SUB-0.17-2	Benzo[k]fluoranthene	46	J	46	J	1
STI-B39-SUB-0.17-2	Bis(2-chloroethoxy)methane	24	U	24	UJ	1
STI-B39-SUB-0.17-2	Bis(2-chloroethyl)ether	9.8	U	9.8	UJ	1
STI-B39-SUB-0.17-2	Bis(2-ethylhexyl) phthalate	59	U	59	UJ	1
STI-B39-SUB-0.17-2	Butyl benzyl phthalate	50	U	50	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B39-SUB-0.17-2	Caprolactam	280	U	280	UJ	1
STI-B39-SUB-0.17-2	Carbazole	6.8	U	6.8	UJ	1
STI-B39-SUB-0.17-2	Chrysene	120	NA	120	J	1
STI-B39-SUB-0.17-2	Dibenz(a,h)anthracene	20	J	20	J	1
STI-B39-SUB-0.17-2	Dibenzofuran	41	J	41	J	1
STI-B39-SUB-0.17-2	Diethyl phthalate	40	U	40	UJ	1
STI-B39-SUB-0.17-2	Dimethyl phthalate	40	U	40	UJ	1
STI-B39-SUB-0.17-2	Di-n-butyl phthalate	46	U	46	UJ	1
STI-B39-SUB-0.17-2	Di-n-octyl phthalate	39	U	39	UJ	1
STI-B39-SUB-0.17-2	Fluoranthene	150	NA	150	J	1
STI-B39-SUB-0.17-2	Fluorene	18	J	18	J	1
STI-B39-SUB-0.17-2	Hexachlorobenzene	7.8	U	7.8	UJ	1
STI-B39-SUB-0.17-2	Hexachlorobutadiene	8.2	U	8.2	UJ	1
STI-B39-SUB-0.17-2	Hexachlorocyclopentadiene	40	U	40	UJ	1
STI-B39-SUB-0.17-2	Hexachloroethane	26	U	26	UJ	1
STI-B39-SUB-0.17-2	Indeno[1,2,3-cd]pyrene	52	J	52	J	1
STI-B39-SUB-0.17-2	Isophorone	28	U	28	UJ	1
STI-B39-SUB-0.17-2	Methylphenol, 3 & 4	36	U	36	UJ	1
STI-B39-SUB-0.17-2	Naphthalene	92	NA	92	J	1
STI-B39-SUB-0.17-2	Nitrobenzene	31	U	31	UJ	1
STI-B39-SUB-0.17-2	N-Nitrosodi-n-propylamine	8.6	U	8.6	UJ	1
STI-B39-SUB-0.17-2	N-Nitrosodiphenylamine	34	U	34	UJ	1
STI-B39-SUB-0.17-2	Pentachlorophenol	33	U	33	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B39-SUB-0.17-2	Phenanthrene	190	NA	190	J	1
STI-B39-SUB-0.17-2	Phenol	8.7	U	8.7	UJ	1
STI-B39-SUB-0.17-2	Pyrene	170	NA	170	J	1
STI-B41-SS	1,1'-Biphenyl	2400	J	2400	J	1
STI-B41-SS	1,2,4,5-Tetrachlorobenzene	1400	U	1400	UJ	1
STI-B41-SS	1,4-Dioxane	2100	U	2100	UJ	1
STI-B41-SS	2,2'-oxybis[1-chloropropane]	390	U	390	UJ	1
STI-B41-SS	2,3,4,6-Tetrachlorophenol	1200	U	1200	UJ	1
STI-B41-SS	2,4,5-Trichlorophenol	1900	U	1900	UJ	1
STI-B41-SS	2,4,6-Trichlorophenol	2700	U	2700	UJ	1
STI-B41-SS	2,4-Dichlorophenol	360	U	360	UJ	1
STI-B41-SS	2,4-Dimethylphenol	2800	U	2800	UJ	1
STI-B41-SS	2,4-Dinitrophenol	21000	U	21000	UJ	1
STI-B41-SS	2,4-Dinitrotoluene	1500	U	1500	UJ	1
STI-B41-SS	2,6-Dinitrotoluene	1900	U	1900	UJ	1
STI-B41-SS	2-Chloronaphthalene	380	U	380	UJ	1
STI-B41-SS	2-Chlorophenol	1500	U	1500	UJ	1
STI-B41-SS	2-Methylnaphthalene	8700	NA	8700	J	1
STI-B41-SS	2-Methylphenol	1300	U	1300	UJ	1
STI-B41-SS	2-Nitroaniline	8100	U	8100	UJ	1
STI-B41-SS	2-Nitrophenol	2000	U	2000	UJ	1
STI-B41-SS	3,3'-Dichlorobenzidine	1900	U	1900	UJ	1
STI-B41-SS	3-Nitroaniline	7400	U	7400	UJ	1
STI-B41-SS	4,6-Dinitro-2-methylphenol	7200	U	7200	UJ	1
STI-B41-SS	4-Bromophenyl phenyl ether	1600	U	1600	UJ	1
STI-B41-SS	4-Chloro-3-methylphenol	1700	U	1700	UJ	1
STI-B41-SS	4-Chloroaniline	1400	U	1400	UJ	1
STI-B41-SS	4-Chlorophenyl phenyl ether	2000	U	2000	UJ	1
STI-B41-SS	4-Nitroaniline	7300	U	7300	UJ	1
STI-B41-SS	4-Nitrophenol	6600	U	6600	UJ	1
STI-B41-SS	Acenaphthene	28000	NA	28000	J	1
STI-B41-SS	Acenaphthylene	1300	J	1300	J	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B41-SS	Acetophenone	1500	U	1500	UJ	1
STI-B41-SS	Anthracene	47000	NA	47000	J	1
STI-B41-SS	Atrazine	1800	U	1800	UJ	1
STI-B41-SS	Benzaldehyde	2700	U	2700	UJ	1
STI-B41-SS	Benzo[a]anthracene	82000	NA	82000	J	1
STI-B41-SS	Benzo[a]pyrene	63000	NA	63000	J	1
STI-B41-SS	Benzo[b]fluoranthene	79000	NA	79000	J	1
STI-B41-SS	Benzo[g,h,i]perylene	38000	NA	38000	J	1
STI-B41-SS	Benzo[k]fluoranthene	36000	NA	36000	J	1
STI-B41-SS	Bis(2-chloroethoxy)methane	1200	U	1200	UJ	1
STI-B41-SS	Bis(2-chloroethyl)ether	480	U	480	UJ	1
STI-B41-SS	Bis(2-ethylhexyl) phthalate	2900	U	2900	UJ	1
STI-B41-SS	Butyl benzyl phthalate	2500	U	2500	UJ	1
STI-B41-SS	Caprolactam	14000	U	14000	UJ	1
STI-B41-SS	Carbazole	21000	NA	21000	J	1
STI-B41-SS	Chrysene	67000	NA	67000	J	1
STI-B41-SS	Dibenz(a,h)anthracene	12000	NA	12000	J	1
STI-B41-SS	Dibenzofuran	17000	J	17000	J	1
STI-B41-SS	Diethyl phthalate	2000	U	2000	UJ	1
STI-B41-SS	Dimethyl phthalate	2000	U	2000	UJ	1
STI-B41-SS	Di-n-butyl phthalate	2300	U	2300	UJ	1
STI-B41-SS	Di-n-octyl phthalate	1900	U	1900	UJ	1
STI-B41-SS	Fluoranthene	160000	NA	160000	J	1
STI-B41-SS	Fluorene	25000	NA	25000	J	1
STI-B41-SS	Hexachlorobenzene	380	U	380	UJ	1
STI-B41-SS	Hexachlorobutadiene	400	U	400	UJ	1
STI-B41-SS	Hexachlorocyclopentadiene	1900	U	1900	UJ	1
STI-B41-SS	Hexachloroethane	1300	U	1300	UJ	1
STI-B41-SS	Indeno[1,2,3-cd]pyrene	36000	NA	36000	J	1
STI-B41-SS	Isophorone	1400	U	1400	UJ	1
STI-B41-SS	Methylphenol, 3 & 4	1800	U	1800	UJ	1
STI-B41-SS	Naphthalene	21000	NA	21000	J	1
STI-B41-SS	Nitrobenzene	1500	U	1500	UJ	1
STI-B41-SS	N-Nitrosodi-n-propylamine	420	U	420	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B41-SS	N-Nitrosodiphenylamine	1700	U	1700	UJ	1
STI-B41-SS	Pentachlorophenol	1600	U	1600	UJ	1
STI-B41-SS	Phenanthrene	170000	NA	170000	J	1
STI-B41-SS	Phenol	430	U	430	UJ	1
STI-B41-SS	Pyrene	140000	NA	140000	J	1
STI-B41-SUB-0.17-2	1,1'-Biphenyl	460	J	460	J	1
STI-B41-SUB-0.17-2	1,2,4,5-Tetrachlorobenzene	130	U	130	UJ	1
STI-B41-SUB-0.17-2	1,4-Dioxane	200	U	200	UJ	1
STI-B41-SUB-0.17-2	2,2'-oxybis[1-chloropropane]	38	U	38	UJ	1
STI-B41-SUB-0.17-2	2,3,4,6-Tetrachlorophenol	110	U	110	UJ	1
STI-B41-SUB-0.17-2	2,4,5-Trichlorophenol	190	U	190	UJ	1
STI-B41-SUB-0.17-2	2,4,6-Trichlorophenol	260	U	260	UJ	1
STI-B41-SUB-0.17-2	2,4-Dichlorophenol	35	U	35	UJ	1
STI-B41-SUB-0.17-2	2,4-Dimethylphenol	270	U	270	UJ	1
STI-B41-SUB-0.17-2	2,4-Dinitrophenol	2100	U	2100	UJ	1
STI-B41-SUB-0.17-2	2,4-Dinitrotoluene	140	U	140	UJ	1
STI-B41-SUB-0.17-2	2,6-Dinitrotoluene	180	U	180	UJ	1
STI-B41-SUB-0.17-2	2-Chloronaphthalene	36	U	36	UJ	1
STI-B41-SUB-0.17-2	2-Chlorophenol	140	U	140	UJ	1
STI-B41-SUB-0.17-2	2-Methylnaphthalene	1800	NA	1800	J	1
STI-B41-SUB-0.17-2	2-Methylphenol	120	U	120	UJ	1
STI-B41-SUB-0.17-2	2-Nitroaniline	780	U	780	UJ	1
STI-B41-SUB-0.17-2	2-Nitrophenol	190	U	190	UJ	1
STI-B41-SUB-0.17-2	3,3'-Dichlorobenzidine	180	U	180	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B41-SUB-0.17-2	3-Nitroaniline	720	U	720	UJ	1
STI-B41-SUB-0.17-2	4,6-Dinitro-2-methylphenol	700	U	700	UJ	1
STI-B41-SUB-0.17-2	4-Bromophenyl phenyl ether	150	U	150	UJ	1
STI-B41-SUB-0.17-2	4-Chloro-3-methylphenol	160	U	160	UJ	1
STI-B41-SUB-0.17-2	4-Chloroaniline	140	U	140	UJ	1
STI-B41-SUB-0.17-2	4-Chlorophenyl phenyl ether	190	U	190	UJ	1
STI-B41-SUB-0.17-2	4-Nitroaniline	700	U	700	UJ	1
STI-B41-SUB-0.17-2	4-Nitrophenol	630	U	630	UJ	1
STI-B41-SUB-0.17-2	Acenaphthene	4500	NA	4500	J	1
STI-B41-SUB-0.17-2	Acenaphthylene	230	J	230	J	1
STI-B41-SUB-0.17-2	Acetophenone	140	U	140	UJ	1
STI-B41-SUB-0.17-2	Anthracene	7400	NA	7400	J	1
STI-B41-SUB-0.17-2	Atrazine	170	U	170	UJ	1
STI-B41-SUB-0.17-2	Benzaldehyde	260	U	260	UJ	1
STI-B41-SUB-0.17-2	Benzo[a]anthracene	11000	NA	11000	J	1
STI-B41-SUB-0.17-2	Benzo[a]pyrene	8500	NA	8500	J	1
STI-B41-SUB-0.17-2	Benzo[b]fluoranthene	12000	NA	12000	J	1
STI-B41-SUB-0.17-2	Benzo[g,h,i]perylene	4900	NA	4900	J	1
STI-B41-SUB-0.17-2	Benzo[k]fluoranthene	3400	NA	3400	J	1
STI-B41-SUB-0.17-2	Bis(2-chloroethoxy)methane	110	U	110	UJ	1
STI-B41-SUB-0.17-2	Bis(2-chloroethyl)ether	47	U	47	UJ	1
STI-B41-SUB-0.17-2	Bis(2-ethylhexyl) phthalate	280	U	280	UJ	1
STI-B41-SUB-0.17-2	Butyl benzyl phthalate	240	U	240	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B41-SUB-0.17-2	Caprolactam	1300	U	1300	UJ	1
STI-B41-SUB-0.17-2	Carbazole	3300	NA	3300	J	1
STI-B41-SUB-0.17-2	Chrysene	8800	NA	8800	J	1
STI-B41-SUB-0.17-2	Dibenz(a,h)anthracene	1700	NA	1700	J	1
STI-B41-SUB-0.17-2	Dibenzofuran	3000	NA	3000	J	1
STI-B41-SUB-0.17-2	Diethyl phthalate	190	U	190	UJ	1
STI-B41-SUB-0.17-2	Dimethyl phthalate	190	U	190	UJ	1
STI-B41-SUB-0.17-2	Di-n-butyl phthalate	220	U	220	UJ	1
STI-B41-SUB-0.17-2	Di-n-octyl phthalate	180	U	180	UJ	1
STI-B41-SUB-0.17-2	Fluoranthene	23000	NA	23000	J	1
STI-B41-SUB-0.17-2	Fluorene	4100	NA	4100	J	1
STI-B41-SUB-0.17-2	Hexachlorobenzene	37	U	37	UJ	1
STI-B41-SUB-0.17-2	Hexachlorobutadiene	39	U	39	UJ	1
STI-B41-SUB-0.17-2	Hexachlorocyclopentadiene	190	U	190	UJ	1
STI-B41-SUB-0.17-2	Hexachloroethane	130	U	130	UJ	1
STI-B41-SUB-0.17-2	Indeno[1,2,3-cd]pyrene	4800	NA	4800	J	1
STI-B41-SUB-0.17-2	Isophorone	130	U	130	UJ	1
STI-B41-SUB-0.17-2	Methylphenol, 3 & 4	170	U	170	UJ	1
STI-B41-SUB-0.17-2	Naphthalene	4400	NA	4400	J	1
STI-B41-SUB-0.17-2	Nitrobenzene	140	U	140	UJ	1
STI-B41-SUB-0.17-2	N-Nitrosodi-n-propylamine	41	U	41	UJ	1
STI-B41-SUB-0.17-2	N-Nitrosodiphenylamine	160	U	160	UJ	1
STI-B41-SUB-0.17-2	Pentachlorophenol	160	U	160	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B41-SUB-0.17-2	Phenanthrene	26000	NA	26000	J	1
STI-B41-SUB-0.17-2	Phenol	41	U	41	UJ	1
STI-B41-SUB-0.17-2	Pyrene	18000	NA	18000	J	1
STI-B42-SS	1,1'-Biphenyl	310	U	310	UJ	1
STI-B42-SS	1,2,4,5-Tetrachlorobenzene	270	U	270	UJ	1
STI-B42-SS	1,4-Dioxane	400	U	400	UJ	1
STI-B42-SS	2,2'-oxybis[1-chloropropane]	76	U	76	UJ	1
STI-B42-SS	2,3,4,6-Tetrachlorophenol	220	U	220	UJ	1
STI-B42-SS	2,4,5-Trichlorophenol	370	U	370	UJ	1
STI-B42-SS	2,4,6-Trichlorophenol	520	U	520	UJ	1
STI-B42-SS	2,4-Dichlorophenol	70	U	70	UJ	1
STI-B42-SS	2,4-Dimethylphenol	550	U	550	UJ	1
STI-B42-SS	2,4-Dinitrophenol	4200	U	4200	UJ	1
STI-B42-SS	2,4-Dinitrotoluene	280	U	280	UJ	1
STI-B42-SS	2,6-Dinitrotoluene	360	U	360	UJ	1
STI-B42-SS	2-Chloronaphthalene	73	U	73	UJ	1
STI-B42-SS	2-Chlorophenol	290	U	290	UJ	1
STI-B42-SS	2-Methylnaphthalene	510	J	510	J	1
STI-B42-SS	2-Methylphenol	240	U	240	UJ	1
STI-B42-SS	2-Nitroaniline	1600	U	1600	UJ	1
STI-B42-SS	2-Nitrophenol	390	U	390	UJ	1
STI-B42-SS	3,3'-Dichlorobenzidine	370	U	370	UJ	1
STI-B42-SS	3-Nitroaniline	1400	U	1400	UJ	1
STI-B42-SS	4,6-Dinitro-2-methylphenol	1400	U	1400	UJ	1
STI-B42-SS	4-Bromophenyl phenyl ether	300	U	300	UJ	1
STI-B42-SS	4-Chloro-3-methylphenol	320	U	320	UJ	1
STI-B42-SS	4-Chloroaniline	280	U	280	UJ	1
STI-B42-SS	4-Chlorophenyl phenyl ether	390	U	390	UJ	1
STI-B42-SS	4-Nitroaniline	1400	U	1400	UJ	1
STI-B42-SS	4-Nitrophenol	1300	U	1300	UJ	1
STI-B42-SS	Acenaphthene	470	J	470	J	1
STI-B42-SS	Acenaphthylene	6100	NA	6100	J	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B42-SS	Acetophenone	290	U	290	UJ	1
STI-B42-SS	Anthracene	3700	NA	3700	J	1
STI-B42-SS	Atrazine	340	U	340	UJ	1
STI-B42-SS	Benzaldehyde	520	U	520	UJ	1
STI-B42-SS	Benzo[a]anthracene	10000	NA	10000	J	1
STI-B42-SS	Benzo[a]pyrene	12000	NA	12000	J	1
STI-B42-SS	Benzo[b]fluoranthene	18000	NA	18000	J	1
STI-B42-SS	Benzo[g,h,i]perylene	10000	NA	10000	J	1
STI-B42-SS	Benzo[k]fluoranthene	6000	NA	6000	J	1
STI-B42-SS	Bis(2-chloroethoxy)methane	230	U	230	UJ	1
STI-B42-SS	Bis(2-chloroethyl)ether	94	U	94	UJ	1
STI-B42-SS	Bis(2-ethylhexyl) phthalate	570	U	570	UJ	1
STI-B42-SS	Butyl benzyl phthalate	480	U	480	UJ	1
STI-B42-SS	Caprolactam	2600	U	2600	UJ	1
STI-B42-SS	Carbazole	610	J	610	J	1
STI-B42-SS	Chrysene	12000	NA	12000	J	1
STI-B42-SS	Dibenz(a,h)anthracene	2600	NA	2600	J	1
STI-B42-SS	Dibenzofuran	340	U	340	UJ	1
STI-B42-SS	Diethyl phthalate	380	U	380	UJ	1
STI-B42-SS	Dimethyl phthalate	380	U	380	UJ	1
STI-B42-SS	Di-n-butyl phthalate	440	U	440	UJ	1
STI-B42-SS	Di-n-octyl phthalate	370	U	370	UJ	1
STI-B42-SS	Fluoranthene	15000	NA	15000	J	1
STI-B42-SS	Fluorene	720	NA	720	J	1
STI-B42-SS	Hexachlorobenzene	75	U	75	UJ	1
STI-B42-SS	Hexachlorobutadiene	78	U	78	UJ	1
STI-B42-SS	Hexachlorocyclopentadiene	380	U	380	UJ	1
STI-B42-SS	Hexachloroethane	250	U	250	UJ	1
STI-B42-SS	Indeno[1,2,3-cd]pyrene	8500	NA	8500	J	1
STI-B42-SS	Isophorone	260	U	260	UJ	1
STI-B42-SS	Methylphenol, 3 & 4	340	U	340	UJ	1
STI-B42-SS	Naphthalene	800	NA	800	J	1
STI-B42-SS	Nitrobenzene	290	U	290	UJ	1
STI-B42-SS	N-Nitrosodi-n-propylamine	82	U	82	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B42-SS	N-Nitrosodiphenylamine	320	U	320	UJ	1
STI-B42-SS	Pentachlorophenol	310	U	310	UJ	1
STI-B42-SS	Phenanthrene	6000	NA	6000	J	1
STI-B42-SS	Phenol	83	U	83	UJ	1
STI-B42-SS	Pyrene	19000	NA	19000	J	1
STI-B42-SUB-0.17-2	1,1'-Biphenyl	31	U	31	UJ	1
STI-B42-SUB-0.17-2	1,2,4,5-Tetrachlorobenzene	26	U	26	UJ	1
STI-B42-SUB-0.17-2	1,4-Dioxane	40	U	40	UJ	1
STI-B42-SUB-0.17-2	2,2'-oxybis[1-chloropropane]	7.5	U	7.5	UJ	1
STI-B42-SUB-0.17-2	2,3,4,6-Tetrachlorophenol	22	U	22	UJ	1
STI-B42-SUB-0.17-2	2,4,5-Trichlorophenol	37	U	37	UJ	1
STI-B42-SUB-0.17-2	2,4,6-Trichlorophenol	52	U	52	UJ	1
STI-B42-SUB-0.17-2	2,4-Dichlorophenol	7	U	7	UJ	1
STI-B42-SUB-0.17-2	2,4-Dimethylphenol	54	U	54	UJ	1
STI-B42-SUB-0.17-2	2,4-Dinitrophenol	410	U	410	UJ	1
STI-B42-SUB-0.17-2	2,4-Dinitrotoluene	28	U	28	UJ	1
STI-B42-SUB-0.17-2	2,6-Dinitrotoluene	36	U	36	UJ	1
STI-B42-SUB-0.17-2	2-Chloronaphthalene	7.2	U	7.2	UJ	1
STI-B42-SUB-0.17-2	2-Chlorophenol	28	U	28	UJ	1
STI-B42-SUB-0.17-2	2-Methylnaphthalene	68	J	68	J	1
STI-B42-SUB-0.17-2	2-Methylphenol	24	U	24	UJ	1
STI-B42-SUB-0.17-2	2-Nitroaniline	160	U	160	UJ	1
STI-B42-SUB-0.17-2	2-Nitrophenol	38	U	38	UJ	1
STI-B42-SUB-0.17-2	3,3'-Dichlorobenzidine	37	U	37	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B42-SUB-0.17-2	3-Nitroaniline	140	U	140	UJ	1
STI-B42-SUB-0.17-2	4,6-Dinitro-2-methylphenol	140	U	140	UJ	1
STI-B42-SUB-0.17-2	4-Bromophenyl phenyl ether	30	U	30	UJ	1
STI-B42-SUB-0.17-2	4-Chloro-3-methylphenol	32	U	32	UJ	1
STI-B42-SUB-0.17-2	4-Chloroaniline	28	U	28	UJ	1
STI-B42-SUB-0.17-2	4-Chlorophenyl phenyl ether	39	U	39	UJ	1
STI-B42-SUB-0.17-2	4-Nitroaniline	140	U	140	UJ	1
STI-B42-SUB-0.17-2	4-Nitrophenol	130	U	130	UJ	1
STI-B42-SUB-0.17-2	Acenaphthene	25	J	25	J	1
STI-B42-SUB-0.17-2	Acenaphthylene	520	NA	520	J	1
STI-B42-SUB-0.17-2	Acetophenone	29	U	29	UJ	1
STI-B42-SUB-0.17-2	Anthracene	270	NA	270	J	1
STI-B42-SUB-0.17-2	Atrazine	34	U	34	UJ	1
STI-B42-SUB-0.17-2	Benzaldehyde	52	U	52	UJ	1
STI-B42-SUB-0.17-2	Benzo[a]anthracene	700	NA	700	J	1
STI-B42-SUB-0.17-2	Benzo[a]pyrene	760	NA	760	J	1
STI-B42-SUB-0.17-2	Benzo[b]fluoranthene	1200	NA	1200	J	1
STI-B42-SUB-0.17-2	Benzo[g,h,i]perylene	740	NA	740	J	1
STI-B42-SUB-0.17-2	Benzo[k]fluoranthene	330	NA	330	J	1
STI-B42-SUB-0.17-2	Bis(2-chloroethoxy)methane	23	U	23	UJ	1
STI-B42-SUB-0.17-2	Bis(2-chloroethyl)ether	9.3	U	9.3	UJ	1
STI-B42-SUB-0.17-2	Bis(2-ethylhexyl) phthalate	120	J	120	J	1
STI-B42-SUB-0.17-2	Butyl benzyl phthalate	47	U	47	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B42-SUB-0.17-2	Caprolactam	260	U	260	UJ	1
STI-B42-SUB-0.17-2	Carbazole	36	J	36	J	1
STI-B42-SUB-0.17-2	Chrysene	790	NA	790	J	1
STI-B42-SUB-0.17-2	Dibenz(a,h)anthracene	180	NA	180	J	1
STI-B42-SUB-0.17-2	Dibenzofuran	34	U	34	UJ	1
STI-B42-SUB-0.17-2	Diethyl phthalate	38	U	38	UJ	1
STI-B42-SUB-0.17-2	Dimethyl phthalate	38	U	38	UJ	1
STI-B42-SUB-0.17-2	Di-n-butyl phthalate	44	U	44	UJ	1
STI-B42-SUB-0.17-2	Di-n-octyl phthalate	37	U	37	UJ	1
STI-B42-SUB-0.17-2	Fluoranthene	990	NA	990	J	1
STI-B42-SUB-0.17-2	Fluorene	55	J	55	J	1
STI-B42-SUB-0.17-2	Hexachlorobenzene	7.4	U	7.4	UJ	1
STI-B42-SUB-0.17-2	Hexachlorobutadiene	7.8	U	7.8	UJ	1
STI-B42-SUB-0.17-2	Hexachlorocyclopentadiene	37	U	37	UJ	1
STI-B42-SUB-0.17-2	Hexachloroethane	25	U	25	UJ	1
STI-B42-SUB-0.17-2	Indeno[1,2,3-cd]pyrene	610	NA	610	J	1
STI-B42-SUB-0.17-2	Isophorone	26	U	26	UJ	1
STI-B42-SUB-0.17-2	Methylphenol, 3 & 4	34	U	34	UJ	1
STI-B42-SUB-0.17-2	Naphthalene	110	NA	110	J	1
STI-B42-SUB-0.17-2	Nitrobenzene	29	U	29	UJ	1
STI-B42-SUB-0.17-2	N-Nitrosodi-n-propylamine	8.1	U	8.1	UJ	1
STI-B42-SUB-0.17-2	N-Nitrosodiphenylamine	32	U	32	UJ	1
STI-B42-SUB-0.17-2	Pentachlorophenol	31	U	31	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B42-SUB-0.17-2	Phenanthrene	460	NA	460	J	1
STI-B42-SUB-0.17-2	Phenol	8.2	U	8.2	UJ	1
STI-B42-SUB-0.17-2	Pyrene	1300	NA	1300	J	1
STI-B43-SS	1,1'-Biphenyl	300	U	300	UJ	1
STI-B43-SS	1,2,4,5-Tetrachlorobenzene	250	U	250	UJ	1
STI-B43-SS	1,4-Dioxane	380	U	380	UJ	1
STI-B43-SS	2,2'-oxybis[1-chloropropane]	72	U	72	UJ	1
STI-B43-SS	2,3,4,6-Tetrachlorophenol	210	U	210	UJ	1
STI-B43-SS	2,4,5-Trichlorophenol	360	U	360	UJ	1
STI-B43-SS	2,4,6-Trichlorophenol	500	U	500	UJ	1
STI-B43-SS	2,4-Dichlorophenol	67	U	67	UJ	1
STI-B43-SS	2,4-Dimethylphenol	520	U	520	UJ	1
STI-B43-SS	2,4-Dinitrophenol	4000	U	4000	UJ	1
STI-B43-SS	2,4-Dinitrotoluene	270	U	270	UJ	1
STI-B43-SS	2,6-Dinitrotoluene	340	U	340	UJ	1
STI-B43-SS	2-Chloronaphthalene	70	U	70	UJ	1
STI-B43-SS	2-Chlorophenol	270	U	270	UJ	1
STI-B43-SS	2-Methylnaphthalene	340	J	340	J	1
STI-B43-SS	2-Methylphenol	230	U	230	UJ	1
STI-B43-SS	2-Nitroaniline	1500	U	1500	UJ	1
STI-B43-SS	2-Nitrophenol	370	U	370	UJ	1
STI-B43-SS	3,3'-Dichlorobenzidine	350	U	350	UJ	1
STI-B43-SS	3-Nitroaniline	1400	U	1400	UJ	1
STI-B43-SS	4,6-Dinitro-2-methylphenol	1300	U	1300	UJ	1
STI-B43-SS	4-Bromophenyl phenyl ether	290	U	290	UJ	1
STI-B43-SS	4-Chloro-3-methylphenol	310	U	310	UJ	1
STI-B43-SS	4-Chloroaniline	270	U	270	UJ	1
STI-B43-SS	4-Chlorophenyl phenyl ether	370	U	370	UJ	1
STI-B43-SS	4-Nitroaniline	1400	U	1400	UJ	1
STI-B43-SS	4-Nitrophenol	1200	U	1200	UJ	1
STI-B43-SS	Acenaphthene	220	J	220	J	1
STI-B43-SS	Acenaphthylene	3200	NA	3200	J	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B43-SS	Acetophenone	270	U	270	UJ	1
STI-B43-SS	Anthracene	2100	NA	2100	J	1
STI-B43-SS	Atrazine	330	U	330	UJ	1
STI-B43-SS	Benzaldehyde	500	U	500	UJ	1
STI-B43-SS	Benzo[a]anthracene	6500	NA	6500	J	1
STI-B43-SS	Benzo[a]pyrene	5600	NA	5600	J	1
STI-B43-SS	Benzo[b]fluoranthene	8600	NA	8600	J	1
STI-B43-SS	Benzo[g,h,i]perylene	5000	NA	5000	J	1
STI-B43-SS	Benzo[k]fluoranthene	3300	NA	3300	J	1
STI-B43-SS	Bis(2-chloroethoxy)methane	220	U	220	UJ	1
STI-B43-SS	Bis(2-chloroethyl)ether	90	U	90	UJ	1
STI-B43-SS	Bis(2-ethylhexyl) phthalate	540	U	540	UJ	1
STI-B43-SS	Butyl benzyl phthalate	460	U	460	UJ	1
STI-B43-SS	Caprolactam	2500	U	2500	UJ	1
STI-B43-SS	Carbazole	310	J	310	J	1
STI-B43-SS	Chrysene	7300	NA	7300	J	1
STI-B43-SS	Dibenz(a,h)anthracene	1300	NA	1300	J	1
STI-B43-SS	Dibenzofuran	330	U	330	UJ	1
STI-B43-SS	Diethyl phthalate	370	U	370	UJ	1
STI-B43-SS	Dimethyl phthalate	360	U	360	UJ	1
STI-B43-SS	Di-n-butyl phthalate	420	U	420	UJ	1
STI-B43-SS	Di-n-octyl phthalate	350	U	350	UJ	1
STI-B43-SS	Fluoranthene	10000	NA	10000	J	1
STI-B43-SS	Fluorene	520	J	520	J	1
STI-B43-SS	Hexachlorobenzene	71	U	71	UJ	1
STI-B43-SS	Hexachlorobutadiene	75	U	75	UJ	1
STI-B43-SS	Hexachlorocyclopentadiene	360	U	360	UJ	1
STI-B43-SS	Hexachloroethane	240	U	240	UJ	1
STI-B43-SS	Indeno[1,2,3-cd]pyrene	4100	NA	4100	J	1
STI-B43-SS	Isophorone	250	U	250	UJ	1
STI-B43-SS	Methylphenol, 3 & 4	330	U	330	UJ	1
STI-B43-SS	Naphthalene	360	J	360	J	1
STI-B43-SS	Nitrobenzene	280	U	280	UJ	1
STI-B43-SS	N-Nitrosodi-n-propylamine	78	U	78	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B43-SS	N-Nitrosodiphenylamine	310	U	310	UJ	1
STI-B43-SS	Pentachlorophenol	300	U	300	UJ	1
STI-B43-SS	Phenanthrene	7000	NA	7000	J	1
STI-B43-SS	Phenol	79	U	79	UJ	1
STI-B43-SS	Pyrene	13000	NA	13000	J	1
STI-B43-SUB-0.17-2	1,1'-Biphenyl	31	U	31	UJ	1
STI-B43-SUB-0.17-2	1,2,4,5-Tetrachlorobenzene	26	U	26	UJ	1
STI-B43-SUB-0.17-2	1,4-Dioxane	40	U	40	UJ	1
STI-B43-SUB-0.17-2	2,2'-oxybis[1-chloropropane]	7.4	U	7.4	UJ	1
STI-B43-SUB-0.17-2	2,3,4,6-Tetrachlorophenol	22	U	22	UJ	1
STI-B43-SUB-0.17-2	2,4,5-Trichlorophenol	37	U	37	UJ	1
STI-B43-SUB-0.17-2	2,4,6-Trichlorophenol	52	U	52	UJ	1
STI-B43-SUB-0.17-2	2,4-Dichlorophenol	6.9	U	6.9	UJ	1
STI-B43-SUB-0.17-2	2,4-Dimethylphenol	54	U	54	UJ	1
STI-B43-SUB-0.17-2	2,4-Dinitrophenol	410	U	410	UJ	1
STI-B43-SUB-0.17-2	2,4-Dinitrotoluene	28	U	28	UJ	1
STI-B43-SUB-0.17-2	2,6-Dinitrotoluene	36	U	36	UJ	1
STI-B43-SUB-0.17-2	2-Chloronaphthalene	7.2	U	7.2	UJ	1
STI-B43-SUB-0.17-2	2-Chlorophenol	28	U	28	UJ	1
STI-B43-SUB-0.17-2	2-Methylnaphthalene	67	J	67	J	1
STI-B43-SUB-0.17-2	2-Methylphenol	24	U	24	UJ	1
STI-B43-SUB-0.17-2	2-Nitroaniline	150	U	150	UJ	1
STI-B43-SUB-0.17-2	2-Nitrophenol	38	U	38	UJ	1
STI-B43-SUB-0.17-2	3,3'-Dichlorobenzidine	36	U	36	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B43-SUB-0.17-2	3-Nitroaniline	140	U	140	UJ	1
STI-B43-SUB-0.17-2	4,6-Dinitro-2-methylphenol	140	U	140	UJ	1
STI-B43-SUB-0.17-2	4-Bromophenyl phenyl ether	30	U	30	UJ	1
STI-B43-SUB-0.17-2	4-Chloro-3-methylphenol	32	U	32	UJ	1
STI-B43-SUB-0.17-2	4-Chloroaniline	28	U	28	UJ	1
STI-B43-SUB-0.17-2	4-Chlorophenyl phenyl ether	38	U	38	UJ	1
STI-B43-SUB-0.17-2	4-Nitroaniline	140	U	140	UJ	1
STI-B43-SUB-0.17-2	4-Nitrophenol	130	U	130	UJ	1
STI-B43-SUB-0.17-2	Acenaphthene	37	J	37	J	1
STI-B43-SUB-0.17-2	Acenaphthylene	720	NA	720	J	1
STI-B43-SUB-0.17-2	Acetophenone	28	U	28	UJ	1
STI-B43-SUB-0.17-2	Anthracene	350	NA	350	J	1
STI-B43-SUB-0.17-2	Atrazine	34	U	34	UJ	1
STI-B43-SUB-0.17-2	Benzaldehyde	52	U	52	UJ	1
STI-B43-SUB-0.17-2	Benzo[a]anthracene	1000	NA	1000	J	1
STI-B43-SUB-0.17-2	Benzo[a]pyrene	1200	NA	1200	J	1
STI-B43-SUB-0.17-2	Benzo[b]fluoranthene	1500	NA	1500	J	1
STI-B43-SUB-0.17-2	Benzo[g,h,i]perylene	960	NA	960	J	1
STI-B43-SUB-0.17-2	Benzo[k]fluoranthene	560	NA	560	J	1
STI-B43-SUB-0.17-2	Bis(2-chloroethoxy)methane	23	U	23	UJ	1
STI-B43-SUB-0.17-2	Bis(2-chloroethyl)ether	9.2	U	9.2	UJ	1
STI-B43-SUB-0.17-2	Bis(2-ethylhexyl) phthalate	56	U	56	UJ	1
STI-B43-SUB-0.17-2	Butyl benzyl phthalate	47	U	47	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B43-SUB-0.17-2	Caprolactam	260	U	260	UJ	1
STI-B43-SUB-0.17-2	Carbazole	35	J	35	J	1
STI-B43-SUB-0.17-2	Chrysene	1100	NA	1100	J	1
STI-B43-SUB-0.17-2	Dibenz(a,h)anthracene	250	NA	250	J	1
STI-B43-SUB-0.17-2	Dibenzofuran	34	U	34	UJ	1
STI-B43-SUB-0.17-2	Diethyl phthalate	38	U	38	UJ	1
STI-B43-SUB-0.17-2	Dimethyl phthalate	38	U	38	UJ	1
STI-B43-SUB-0.17-2	Di-n-butyl phthalate	43	U	43	UJ	1
STI-B43-SUB-0.17-2	Di-n-octyl phthalate	36	U	36	UJ	1
STI-B43-SUB-0.17-2	Fluoranthene	1200	NA	1200	J	1
STI-B43-SUB-0.17-2	Fluorene	65	J	65	J	1
STI-B43-SUB-0.17-2	Hexachlorobenzene	7.3	U	7.3	UJ	1
STI-B43-SUB-0.17-2	Hexachlorobutadiene	7.7	U	7.7	UJ	1
STI-B43-SUB-0.17-2	Hexachlorocyclopentadiene	37	U	37	UJ	1
STI-B43-SUB-0.17-2	Hexachloroethane	25	U	25	UJ	1
STI-B43-SUB-0.17-2	Indeno[1,2,3-cd]pyrene	770	NA	770	J	1
STI-B43-SUB-0.17-2	Isophorone	26	U	26	UJ	1
STI-B43-SUB-0.17-2	Methylphenol, 3 & 4	34	U	34	UJ	1
STI-B43-SUB-0.17-2	Naphthalene	100	NA	100	J	1
STI-B43-SUB-0.17-2	Nitrobenzene	29	U	29	UJ	1
STI-B43-SUB-0.17-2	N-Nitrosodi-n-propylamine	8.1	U	8.1	UJ	1
STI-B43-SUB-0.17-2	N-Nitrosodiphenylamine	32	U	32	UJ	1
STI-B43-SUB-0.17-2	Pentachlorophenol	31	U	31	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B43-SUB-0.17-2	Phenanthrene	370	NA	370	J	1
STI-B43-SUB-0.17-2	Phenol	8.1	U	8.1	UJ	1
STI-B43-SUB-0.17-2	Pyrene	1600	NA	1600	J	1
STI-B44-SUB-0.17-2	1,1'-Biphenyl	30	U	30	UJ	1
STI-B44-SUB-0.17-2	1,2,4,5-Tetrachlorobenzene	26	U	26	UJ	1
STI-B44-SUB-0.17-2	1,4-Dioxane	39	U	39	UJ	1
STI-B44-SUB-0.17-2	2,2'-oxybis[1-chloropropane]	7.4	U	7.4	UJ	1
STI-B44-SUB-0.17-2	2,3,4,6-Tetrachlorophenol	22	U	22	UJ	1
STI-B44-SUB-0.17-2	2,4,5-Trichlorophenol	36	U	36	UJ	1
STI-B44-SUB-0.17-2	2,4,6-Trichlorophenol	51	U	51	UJ	1
STI-B44-SUB-0.17-2	2,4-Dichlorophenol	6.9	U	6.9	UJ	1
STI-B44-SUB-0.17-2	2,4-Dimethylphenol	53	U	53	UJ	1
STI-B44-SUB-0.17-2	2,4-Dinitrophenol	410	U	410	UJ	1
STI-B44-SUB-0.17-2	2,4-Dinitrotoluene	28	U	28	UJ	1
STI-B44-SUB-0.17-2	2,6-Dinitrotoluene	35	U	35	UJ	1
STI-B44-SUB-0.17-2	2-Chloronaphthalene	7.1	U	7.1	UJ	1
STI-B44-SUB-0.17-2	2-Chlorophenol	28	U	28	UJ	1
STI-B44-SUB-0.17-2	2-Methylnaphthalene	49	J	49	J	1
STI-B44-SUB-0.17-2	2-Methylphenol	24	U	24	UJ	1
STI-B44-SUB-0.17-2	2-Nitroaniline	150	U	150	UJ	1
STI-B44-SUB-0.17-2	2-Nitrophenol	38	U	38	UJ	1
STI-B44-SUB-0.17-2	3,3'-Dichlorobenzidine	36	U	36	UJ	1
STI-B44-SUB-0.17-2	3-Nitroaniline	140	U	140	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B44-SUB-0.17-2	4,6-Dinitro-2-methylphenol	140	U	140	UJ	1
STI-B44-SUB-0.17-2	4-Bromophenyl phenyl ether	30	U	30	UJ	1
STI-B44-SUB-0.17-2	4-Chloro-3-methylphenol	31	U	31	UJ	1
STI-B44-SUB-0.17-2	4-Chloroaniline	27	U	27	UJ	1
STI-B44-SUB-0.17-2	4-Chlorophenyl phenyl ether	38	U	38	UJ	1
STI-B44-SUB-0.17-2	4-Nitroaniline	140	U	140	UJ	1
STI-B44-SUB-0.17-2	4-Nitrophenol	120	U	120	UJ	1
STI-B44-SUB-0.17-2	Acenaphthene	71	NA	71	J	1
STI-B44-SUB-0.17-2	Acenaphthylene	650	NA	650	J	1
STI-B44-SUB-0.17-2	Acetophenone	28	U	28	UJ	1
STI-B44-SUB-0.17-2	Anthracene	390	NA	390	J	1
STI-B44-SUB-0.17-2	Atrazine	33	U	33	UJ	1
STI-B44-SUB-0.17-2	Benzaldehyde	51	U	51	UJ	1
STI-B44-SUB-0.17-2	Benzo[a]anthracene	1300	NA	1300	J	1
STI-B44-SUB-0.17-2	Benzo[a]pyrene	1400	NA	1400	J	1
STI-B44-SUB-0.17-2	Benzo[b]fluoranthene	1900	NA	1900	J	1
STI-B44-SUB-0.17-2	Benzo[g,h,i]perylene	1200	NA	1200	J	1
STI-B44-SUB-0.17-2	Benzo[k]fluoranthene	780	NA	780	J	1
STI-B44-SUB-0.17-2	Bis(2-chloroethoxy)methane	23	U	23	UJ	1
STI-B44-SUB-0.17-2	Bis(2-chloroethyl)ether	9.2	U	9.2	UJ	1
STI-B44-SUB-0.17-2	Bis(2-ethylhexyl) phthalate	55	U	55	UJ	1
STI-B44-SUB-0.17-2	Butyl benzyl phthalate	47	U	47	UJ	1
STI-B44-SUB-0.17-2	Caprolactam	260	U	260	UJ	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B44-SUB-0.17-2	Carbazole	83	NA	83	J	1
STI-B44-SUB-0.17-2	Chrysene	1500	NA	1500	J	1
STI-B44-SUB-0.17-2	Dibenz(a,h)anthracene	290	NA	290	J	1
STI-B44-SUB-0.17-2	Dibenzofuran	46	J	46	J	1
STI-B44-SUB-0.17-2	Diethyl phthalate	37	U	37	UJ	1
STI-B44-SUB-0.17-2	Dimethyl phthalate	37	U	37	UJ	1
STI-B44-SUB-0.17-2	Di-n-butyl phthalate	43	U	43	UJ	1
STI-B44-SUB-0.17-2	Di-n-octyl phthalate	36	U	36	UJ	1
STI-B44-SUB-0.17-2	Fluoranthene	1900	NA	1900	J	1
STI-B44-SUB-0.17-2	Fluorene	93	NA	93	J	1
STI-B44-SUB-0.17-2	Hexachlorobenzene	7.3	U	7.3	UJ	1
STI-B44-SUB-0.17-2	Hexachlorobutadiene	7.6	U	7.6	UJ	1
STI-B44-SUB-0.17-2	Hexachlorocyclopentadiene	37	U	37	UJ	1
STI-B44-SUB-0.17-2	Hexachloroethane	25	U	25	UJ	1
STI-B44-SUB-0.17-2	Indeno[1,2,3-cd]pyrene	960	NA	960	J	1
STI-B44-SUB-0.17-2	Isophorone	26	U	26	UJ	1
STI-B44-SUB-0.17-2	Methylphenol, 3 & 4	33	U	33	UJ	1
STI-B44-SUB-0.17-2	Naphthalene	69	NA	69	J	1
STI-B44-SUB-0.17-2	Nitrobenzene	28	U	28	UJ	1
STI-B44-SUB-0.17-2	N-Nitrosodi-n-propylamine	8	U	8	UJ	1
STI-B44-SUB-0.17-2	N-Nitrosodiphenylamine	32	U	32	UJ	1
STI-B44-SUB-0.17-2	Pentachlorophenol	31	U	31	UJ	1
STI-B44-SUB-0.17-2	Phenanthrene	970	NA	970	J	1

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B44-SUB-0.17-2	Phenol	8.1	U	8.1	UJ	1
STI-B44-SUB-0.17-2	Pyrene	2500	NA	2500	J	1

µg/kg-microgram per kilogram
U-not detected at the stated MDL
*-laboratory flag indicating that the 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
NA-not applicable

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Memorandum

Date:	14 December 2016
To:	Aron Krasnopler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level IV Data Deliverable TestAmerica Work Order Number 180-58782-1**

SITE: Former Scott Technologies

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of ten solid samples, including two samples for matrix spike/matrix spike duplicate (MS/MSD) analyses and one field duplicate sample, collected September 16, 2016, as part of the Former Scott Technologies sampling event. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Standard Method 2540G - Percent Moisture/Solids

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. The qualified data should be used within the limitations of the qualifications.

The organic data were reviewed based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, August 2014 (EPA 540-R-014-002), as well as by the pertinent methods referenced by the data package and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-58782-1	STI-B34-SS
180-58782-2	STI-B34-SUB-0.17-2
180-58782-2 MS	STI-B34-SUB-0.17-2
180-58782-2 MSD	STI-B34-SUB-0.17-2
180-58782-3	STI-B35-SS
180-58782-4	STI-B35-SUB-0.17-2
180-58782-5	STI-B36-SS
180-58782-6	STI-B36-SUB-0.17-2

Laboratory ID	Client ID
180-58782-7	STI-B37-SS
180-58782-8	STI-B37-SUB-0.17-2
180-58782-9	STI-B45-SS
180-58782-10	STI-B45-SUB-0.17-2
180-58782-10 MS	STI-B45-SUB-0.17-2
180-58782-10 MSD	STI-B45-SUB-0.17-2
180-58782-11	STI-FD-3

The samples were received at the laboratory at 2.2°C and 3.8°C, within the QAPP criteria of <6°C. No sample preservation issues were noted by the laboratory.

No collection time was listed on the chain of custody (COC) for the field duplicate samples the laboratory assigned a collection time of 00:00.

It was noted that the sample IDs in the electronic data deliverable (EDD) included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC.

The solids data, used to report the samples on a dry weight bases, were not validated.

1.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs per EPA Methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The SVOC data reported in this package are considered to be usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

The narrative noted that the continuing calibration verification (CCV) standard in analytical batch 188547 had percent differences (%Ds) that were high and outside the method specified acceptance criteria (20%D) for 1,4-dioxane and 2,2'-oxybis[1-chloropropane], with high biases. Since these compounds were not detected in the associated samples, no qualifications were applied to the data, based on professional and technical judgment. In addition, the %Ds for 2,4-dintrophenol (34%D), 4,6-dinitro-2-methylphenol (23%D) and atrazine (67D) were high and outside the method specified acceptance criteria, with low biases. Since the %Ds for 2,4-dintrophenol and 4,6-dinitro-2-methylphenol were within the validation criteria, no qualifications were applied to the data. However, since the %D for atrazine was outside the validation criteria, the nondetect results of atrazine in the associated samples were UJ qualified as estimated less than the method detection limits (MDLs).

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier*	Reason Code**
STI-B45-SS	Atrazine	350	U	350	UJ	9
STI-B45-SUB-0.17-2	Atrazine	35	U	35	UJ	9

µg/kg-microgram per kilogram
U-not detected at or above the MDL
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the SVOC analysis of a solid sample are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 188340). SVOCs were not detected in the method blank above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one pair per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample STI-B45-SUB-0.17-2. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of 2,2'-oxybis[1-chloropropane] were high and outside the laboratory specified acceptance criteria. Since 2,2'-oxybis[1-chloropropane] was not detected in sample STI-B45-SUB-0.17-2, no qualifications were applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of 2,2'-oxybis[1-chloropropane] was high and outside the laboratory specified acceptance criteria. Since 2,2'-oxybis[1-chloropropane] was not detected in the associated samples, no qualifications were applied to the data.

1.6 Surrogate

Acceptable surrogate recoveries were reported for the sample analyses.

1.7 Field Duplicate

One field duplicate sample was collected with the sample set, but not analyzed for SVOCs.

1.8 Sensitivity

The sample was reported to the MDLs. No elevated nondetect results were reported.

1.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

2.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

2.1 Overall Assessment

The PCB (Aroclor) data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B34-SS	PCB-1248	460	B	460	J	13
STI-B34-SS	PCB-1254	360	NA	360	J	13
STI-B34-SS	PCB-1260	170	NA	170	J	13
STI-B34-SUB-0.17-2	PCB-1248	18	B	18	J	13

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier	Reason Code
STI-B34-SUB-0.17-2	PCB-1254	13	J	13	J	13
STI-B34-SUB-0.17-2	PCB-1260	6.8	J	6.8	J	13
STI-B35-SS	PCB-1248	690	B	690	J	13
STI-B35-SS	PCB-1254	380	NA	380	J	13
STI-B35-SS	PCB-1260	150	NA	150	J	13
STI-B35-SUB-0.17-2	PCB-1248	210	B	210	J	13
STI-B35-SUB-0.17-2	PCB-1254	99	NA	99	J	13
STI-B35-SUB-0.17-2	PCB-1260	36	NA	36	J	13
STI-B36-SS	PCB-1248	690	B	690	J	13
STI-B36-SS	PCB-1254	370	NA	370	J	13
STI-B36-SS	PCB-1260	150	NA	150	J	13
STI-B36-SUB-0.17-2	PCB-1248	77	B	77	J	13
STI-B36-SUB-0.17-2	PCB-1254	41	NA	41	J	13
STI-B36-SUB-0.17-2	PCB-1260	16	J	16	J	13
STI-B37-SS	PCB-1248	22000	B	22000	J	13
STI-B37-SS	PCB-1254	7600	NA	7600	J	13
STI-B37-SS	PCB-1260	3500	NA	3500	J	13
STI-B37-SUB-0.17-2	PCB-1248	640	B	640	J	13
STI-B37-SUB-0.17-2	PCB-1254	260	NA	260	J	13
STI-B37-SUB-0.17-2	PCB-1260	94	NA	94	J	13
STI-FD-3	PCB-1248	1200	B	1200	J	13
STI-FD-3	PCB-1254	510	NA	510	J	13
STI-FD-3	PCB-1260	210	NA	210	J	13

µg/kg-microgram per kilogram
B-laboratory flag indicating that the compound was found in the blank and sample
J- the result is less than the reporting limit (RL) but greater than or equal to the MDL and the concentration is an approximate value
NA-not applicable

2.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported with the data (batch 188772). PCBs were not detected in the method blank above the MDLs, with the following exception.

PCB 1248 was detected in the method blank at an estimated concentration greater than the MDL and less than the RL. Since the concentrations in the associated samples were greater than the RL, no qualifications were applied to the data.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample STI-B34-SUB-0.17-2. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogate

The surrogate recoveries were within the laboratory specified acceptance criteria.

2.7 Field Duplicate

One field duplicate sample was collected with the sample set, STI-FD-1. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, STI-HP2-SED-B, with the following exceptions.

The PCB 1248, 1254 and 1260 RPDs were greater than 40% and the concentrations were greater than five times the RL. Therefore, the concentrations of PCB 1248, 1254 and 1260 in the field duplicate pair were J qualified as estimated.

The qualifications due to the field duplicate assessments are summarized below.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	RPD	Validation Result (µg/kg)	Validation Qualifier	Reason Code
STI-B37-SUB-0.17-2	PCB-1248	640	B	61	640	J	7
STI-FD-3	PCB-1248	1200	B		1200	J	7
STI-B37-SUB-0.17-2	PCB-1254	260	NA	65	260	J	7
STI-FD-3	PCB-1254	510	NA		510	J	7
STI-B37-SUB-0.17-2	PCB-1260	94	NA	76	94	J	7
STI-FD-3	PCB-1260	210	NA		210	J	7

µg/kg-microgram per kilogram
B-laboratory flag indicating that the compound was found in the blank and sample
NA-not applicable

2.8 Sensitivity

The samples were reported to the MDLs. Elevated nondetect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

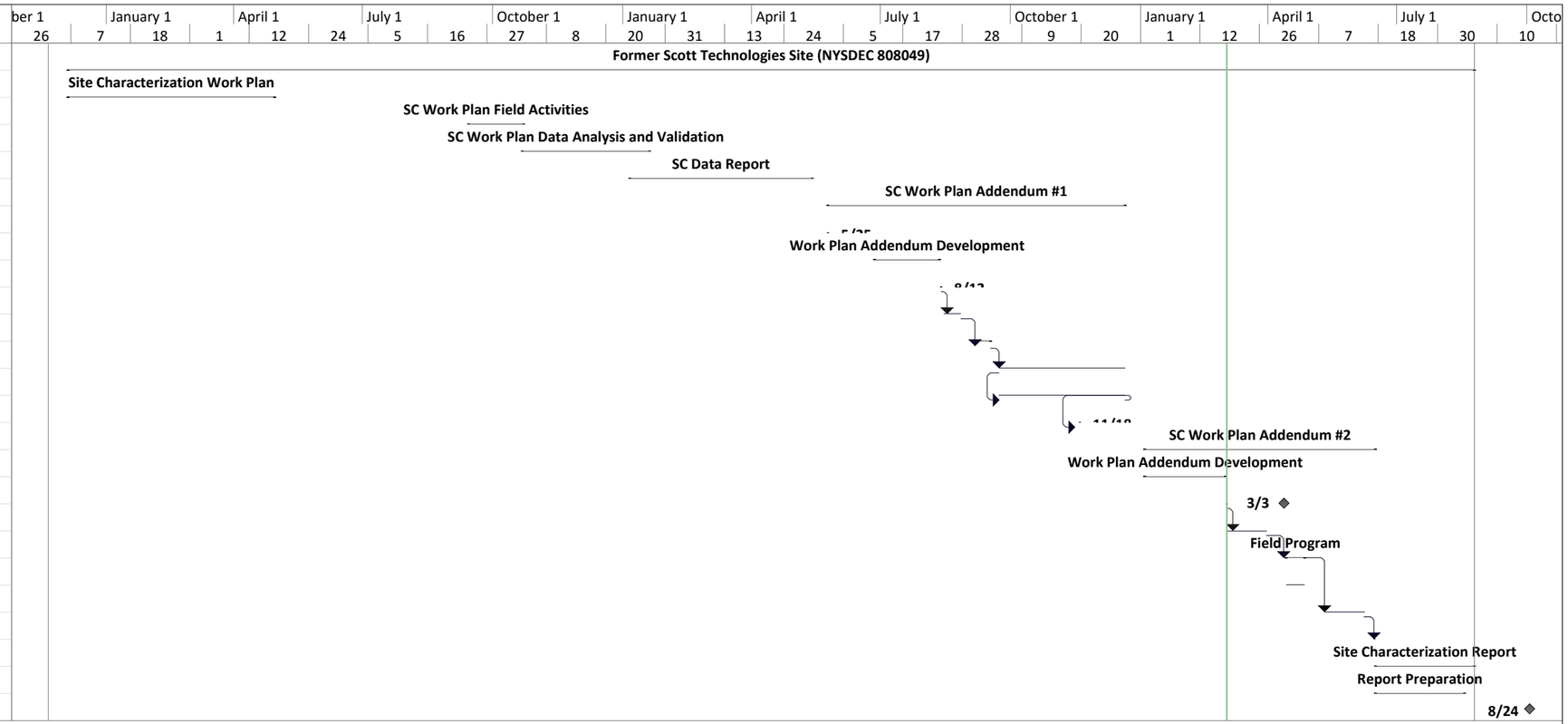
Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

Attachment 3

Project Schedule

ID	Task Name	Duration	Start	Finish
1	**Former Scott Technologies Site**	**698 days**	**Fri 12/5/14**	**Thu 8/24/17**
2	**Site Characterization Work**	**93 days**	**Fri 12/5/14**	**Thu 4/30/15**
6	**SC Work Plan Field Activities**	**29 days**	**Mon 9/14/15**	**Thu 10/22/15**
16	**SC Work Plan Data Analysis**	**64 days**	**Thu 10/22/15**	**Tue 1/19/16**
20	**SC Data Report**	**93 days**	**Wed 1/6/16**	**Fri 5/13/16**
25	**SC Work Plan Addendum #1**	**150 days**	**Wed 5/25/16**	**Tue 12/20/16**
26	Discsussion with DEC and	0 days	Wed 5/25/16	Wed 5/25/16
27	**Work Plan Addendum**	**34 days**	**Mon 6/27/16**	**Thu 8/11/16**
31	Submittal to NYSDEC	0 days	Fri 8/12/16	Fri 8/12/16
32	NYSDEC Review	2 wks	Mon 8/15/16	Fri 8/26/16
33	**Field Program**	**9 days**	**Tue 9/6/16**	**Fri 9/16/16**
36	Data Validation	12.6 wks	Fri 9/23/16	Tue 12/20/16
37	Data Review	12.6 wks	Fri 9/23/16	Tue 12/20/16
38	NYSDEC Meeting	0 days	Fri 11/18/16	Fri 11/18/16
39	**SC Work Plan Addendum #2**	**117 days**	**Wed 1/4/17**	**Thu 6/15/17**
40	**Work Plan Addendum**	**41 days**	**Wed 1/4/17**	**Wed 3/1/17**
43	Submittal to NYSDEC	0 days	Fri 3/3/17	Fri 3/3/17
44	NYSDEC Review	4 wks	Fri 3/3/17	Thu 3/30/17
45	**Field Program**	**9 days**	**Fri 4/14/17**	**Wed 4/26/17**
46	Soil Investigation	9 days	Fri 4/14/17	Wed 4/26/17
47	Data Review and Validation	4 wks	Thu 5/11/17	Wed 6/7/17
48	NYSDEC Meeting	1 day	Thu 6/15/17	Thu 6/15/17
49	**Site Characterization Report**	**50 days**	**Fri 6/16/17**	**Thu 8/24/17**
50	**Report Preparation**	**45 days**	**Fri 6/16/17**	**Thu 8/17/17**
55	Submittal to NYSDEC	0 wks	Thu 8/24/17	Thu 8/24/17



Project: project.schedule.hw808049.2017-03-03
Date: Fri 3/3/17

Task	Project Summary	Inactive Milestone	Manual Summary Rollup	Deadline
Split	External Tasks	Inactive Summary	Manual Summary	Progress
Milestone	External Milestone	Manual Task	Start-only	Manual Progress
Summary	Inactive Task	Duration-only	Finish-only	